Shri Vithal Education & Research Institute's
# COLLEGE OF ENGINEERING, PANDHARPUR
P.B.No.54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413304, **District**: Solapur (Maharashtra)
**Tel.**: (02186) 216063, 9503103757, **Toll Free No.**: 1800-3000-4131 **e-mail.**: coe@sveri.ac.in
**Website.**: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)
**NBA** Accredited all eligible UG Programmes, **NAAC** Accreditated Institute,ISO 9001:2015 Certified Institute.
Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune.

Ref.:-

Date:- 06/07/2021

| | |
|---|---|
| **Criterion 6.5.3** | Quality assurance initiatives of the institution include:<br>1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements<br>2. Collaborative quality initiatives with other institution(s)<br>3. Participation in NIRF<br>4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA) |
| **Findings of DVV** | 1) Provide proceedings of meetings of IQAC, Feedback analysis and action taken report<br>2) Provide supporting documents pertaining to NIRF (along with link to the HEI's ranking in the NIRF portal)<br>3) Provide supporting document as per the options selected |
| **Responses of HEI** | 1. Proceedings of meetings of IQAC, Feedback analysis and action taken report are attached as Appendix-I |
| | 2. Supporting documents pertaining to NIRF are attached as Appendix-II |
| | 3.List of Collaborative initiatives with other institutions are attached, as Appendix-III |
| | 4. Certificates of Quality audit by NAAC, NBA and ISO 9001:2015 are attached as Appendix-IV |

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

COLLEGE OF ENGINEERING PANDHARPUR

B. Rage
PRINCIPAL,
College of Engineering,
PANDHARPUR

# APPENDIX-I

# PROCEEDINGS OF IQAC

The meeting of Internal Quality Assurance Cell of SVERI's College of Engineering was held on 20-12-2015 in Board Room.

Following members were present for the meeting.

| Sr No | Name | Signature |
|---|---|---|
| 1 | P.B Kadam | |
| 2 | S. R. Gaval | |
| 3 | Madhav K Raul | |
| 4 | Dr. P. S. Kadare | |
| 5 | Mr. M. I. Bohari | |
| 6 | U. S. Shinde | |
| 7 | Dr S. A. Lendave | |
| 8 | Mr. C. C. Patange | |
| 9 | Mr. R. G. Zaskar | |
| 10 | Mr S. M. Bagal | |
| 11 | B. D. Gaikwad | |
| 12 | Y. M. Khedkar | |
| 13 | MS R.R. Bhosale | |
| 14 | Mr. S. M. Shinde | |
| 15 | Ms. M. M. Bhor | |
| 16 | Mr J. L. Utpat | |
| 17 | Mr A. G Korke | |
| 18 | Ms. Manasi Prakash Kshirsagar | |
| 19 | Prof. C. B. NADAGOUDA | |
| 20 | DR. N. B. PAWAR | |
| 21 | Mr. Mukund M. Patwa | |
| 22 | Dr. S. M. Mukane | |
| 23 | Mr M. D. Misal | |
| 24 | B. P. Ronge | |

In-charge Principal Prof. M. D. Misal and IQAC co-ordinator Dr. S.M. Mukane extended warm welcome towards all present for the first meeting of IQAC.

Following business was transacted during the meeting.

Item No 1:- About IQAC and NAAC Accreditation.

Resolution No.1:- It was brought to the notice of the meeting that our Institute had applied for Accreditation of National Assessment and Accreditation Council (NAAC). In response to the application NAAC Peer Team visited our Institute on 5 to 7 October, 2015. Result of the visit is not yet declared by NAAC. To pursue action plan for performance evaluation, assessment and Accreditation and Quality upgradation and to become eligible for second cycle of NAAC, IQAC is necessary. Accordingly we have established IQAC. The prime task of IQAC is to develope a system for conscious, consistent and catalytic improvement in the overall performance of Institute. Guide lines/ manual about IQAC prepared by NAAC was put before the meeting. Also it was brought to the notice of the meeting NAAC has awarded 2.75 CGPA with Grade B to our Institute. Our small lacuna pointed out by NAAC was some unqualified faculty on roll.

Meeting took the note of the above and unanimously resolved to i) Work as per IQAC guidelines ii) Efforts be made to appoint qualified staff to remove little lacuna.

Proposed by:- Dr Sridevi Dileep

Seconded by:- Dr. P. M. Pawar.

Item No.2:- About review of various Academic and Administrative activities of the Institute.

Resolution No.2:- It was brought to the notice of the meeting that to enhance quality, Institute performs various academic and administrative activities as given below,

i) Pandharpur Pattern in Professional Education:- It is our indigenious documented teaching

learning process along with teachers development and students development. The copy of PPPE was put before the meeting.

ii) System manual:- the roles and responsibilities along with authority delegation of Principal, Vice. Principal, Dean Administration, Dean Academics, Deem R&D, Dean students TPO, HODs, Class co-ordinators, proctor teachers, chief rector are documented as system manual for the smooth functioning of the Institute. The copy of system manual was put before the meeting. In the meeting of Board of governors dated 19-12-2015 it was approved to appoint one more Dean by the name Dean Training, Placement and Industry Interactions.

Thorough discussion was made and it was unanimously resolved to approve and implement PPPE & System manual further in true spirit.

Proposed by:- Dr. P. S. Kachare.
Seconded by:- Dr. S. M. Mukane.

Item No.3:- Issues with the permission of the Chair.

Resolution No.3:-

There being no further issue to discuss, meeting concluded with vote of thanks to the Chair and all present.

Mukane
Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering
Pandharpur

PRINCIPAL,
College of Engineering,
PANDHARPUR

The meeting of Internal Quality Assurance Cell of SVERI's College of Engineering was held on 27-03-2015 in Board Room

Following members were present for the meeting

| Sr No | Name | Signature |
|---|---|---|
| 1 | Prof. C.B. NADAGOUDA | |
| 2 | Mr. S.R. Gosavi | |
| 3 | Pradnya B. Kadam | |
| 4 | Dr S.A. Lendave | |
| 5 | Dr M.C. Raut | |
| 6 | Mr C.C. Patange | |
| 7 | Mr N.D. Misal | |
| 8 | Dr. P.S. Kadbane | |
| 9 | Mr. M.I. Bokhari | |
| 10 | Ms. Manali Kshirsagar | |
| 11 | Mr. R.G. Zaskeer | |
| 12 | Mr. S.M. Shinde | |
| 13 | Mr A.G. Korke | |
| 14 | Mr. D.L. Utpat | |
| 15 | MS R.R. Bhosale | |
| 16 | Ms M.M Bhore | |
| 17 | B.D. Chikwad | |
| 18 | Dr. N.B. PAWAR | |
| 19 | Dr. S.M. Mukane | |
| 20 | Mr S.M. Bagal | |
| 21 | Mr Y.M. Khedkar | |
| 22 | Mr. Mukund M. Pawar | |
| 23 | B.P. Ronge | B. Ronge. |

Following business was transacted during the meeting.

Item No.1:- Confirmation of the minutes of the last meeting.

Resolution No.1:- Minutes of the last meeting held on 20-12-2015 were read and unanimously confirmed.

Proposed by:- Dr. P.S. Kachare
Seconded by:- Prof. C.C. Patange.

Item No.2:- About Review of various Academic and Administrative Activities of the Institute.

Resolution No.2:- It was brought to the notice of the meeting that following activities are being conducted in the institute.

i) GATE TUTER Software is provided to students and faculty. Faculty member should use it for 2 hours per week. This activity is being monitored by Dean Academics.

ii) Dr. R. Chidambaram, Principal Scientific Advisor, Government of India has visited our Institute on 06-02-2016.

iii) Alumni meet was conducted on 05-02-2016 in Pune.

iv) Guides are being alloted by forming project groups at S.E level.

v) ICT content of every subject has been uploaded by the subject teacher on FTP.

vi) Meetings of various committees such as Anti-Ragging, Palak Shikshak Sangh, Discipline, Deans and HoDs, General Staff meeting, Academic monitoring Committee,

Local Hanging Committee, Standing Committee, Women Grievance Redressal Committee, Grievance Redressal Committee, Academic Advisory Committee, Board of Governors were conducted. the minutes of these committees meetings held upto now were put before the meeting.

thorough discussion was made and it was unanimously resolved to approve decisions taken in the above said meetings and further resolved to arrange workshop on Accreditation.

Proposed by:- Prof C.B. Nadagouda
seconded by:- Dr. S.A. Lendave.

Item No.3:- Issues with the permission of the Chair.

Resolution No.3:-

there being no further issue to discuss, meeting concluded with vote of thanks to the Chair and all present.

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

PRINCIPAL
College of Engineering,
PANDHARPUR

The meeting of Internal Quality Assurance Cell of SVERI's College of Engineering was held on 28-05-2016 in Board Room.

Following members were present for the meeting.

| Sr. No. | Name | Signature |
|---|---|---|
| 1 | Prof. C.B. NADAGOUDA | |
| 2 | Dr M.K. Rawl | |
| 3 | S. R. Gavali | |
| 4 | Pradnya B. Kadam | |
| 5 | Dr. P.S. Kulkarni | |
| 6 | Dr. S.A. Tendave | |
| 7 | Mrs M.D. Misal | |
| 8 | Mr. R.G. Zarkar | |
| 9 | Mr. C.C. Patange | |
| 10 | Mr. M.I. Bohari | |
| 11. | Ms. Manasi Kshirsagar | |
| 12. | Mr. S.M. Shinde | |
| 13 | Mr A.G. Koshe | |
| 14 | Mrs S.L. Utpat | |
| 15 | MS R.R. Bhosale | |
| 16. | Ms. M.M. Bhore | |
| 17 | B.D. Kulkarni | |
| 18 | Dr. N.B. PAWAR | |
| 19. | Dr. S.M. Mulgave | |
| 20 | Mr S.M. Bagal | |
| 21 | Mr. Mukund M. Power | |
| 22 | Mr. Y.M. Khedkar | |

Following business was transacted during the meeting.

Item No. 1:- Confirmation of the minutes of the last meeting.

Resolution No. 1:- Minutes of the last meeting held on 27-03-2016 were read and unanimously confirmed.

Proposed by:- Prof. M. D. Nival
Seconded by:- Prof. S. R. Gavali.

Item No. 2:- About Review of various Academic and Administrative Activities of the Institute.

Resolution No 2:- It was brought to the notice of the meeting the following;

i) Successful students in GATE exam are as follows;
ENTC- 1/112, Civil- 3/39, CSE&IT- 0/162
Mech- 0/90

ii) First semester Academic Year 2016-17 will start from 23-07-2016 for TE & BE classes

iii) Project competition was successfully conducted on 09-05-2016 for Diploma students of CSE & ENTC branch.

iv) Members of Rastriya Uchchatar Shiksha Abhiyan (RUSA) visited our college under the leadership of Mrs. Manisha Varma Madam (State Project Director). She was accompanied by Dr. Vilas Gaikar, Vice Chancellor of Dr. Babasaheb Ambedkar Technological University Lonere, Dr. Sanjay Jagtap and others. This visit was effectively co-ordinated by Dr. S.M. Mukane & effective presentation was given by Dr. P.M. Pawar. Mrs Manisha Varma and her team visited all the

activities in the Institute and expressed extreme satisfaction and happiness.

Review of preparation for our International Conference was taken in the meeting also review of faculty requirement department wise taken in the meeting.

Thorough discussion was made and it was unanimously resolved to put study leave record of staff members in the next meeting and further resolved to arrange one session on Academic Audit.

Proposed by:- Prof. C. B. Nadagouda.
Seconded by:- Dr. M. K. Patil.

Item No.3:- Issues with the permission of the Chair.
Resolution No.3:-

There being no further issue to discuss, meeting concluded with vote of thanks to the Chair and all present.

S.M. Mahone
Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

B. Rage
PRINCIPAL
College of Engineering,
PANDHARPUR.

The meeting of Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering was held on Saturday, 22-10-2016 @ 10.00 am in Board Room

Following were present for the meeting.

| Sr No. | Name | signature |
|---|---|---|
| 01 | Prof. C.B. NADAGOUDA | |
| 02 | Mr. C.C. Patange | |
| 03 | Dr. P.S. Kachare | |
| 04 | Ms. V.D. Jadhav | |
| 05 | Mr. M.I. Bokari | |
| 06 | Mr M.D. Misal | |
| 07 | Dr. S.A. Tendave | |
| 08 | Dr. Madhav K Rao | |
| 09 | Ms. Manasi Kshirsagar | |
| 10 | Mr. R.G. Zarkar | |
| 11 | Mr. S.R. Gaval | |
| 12. | Pradnya B. Kadam | |
| 13 | Mr S.M. Shinde | |
| 14 | Mr A.G. Korke | |
| 15 | Mrs. S.L. Utpat | |
| 16 | Ms R.R Bhosale | |
| 17 | Ms. M.M. Bhore | |
| 18 | B.D. Kulkarni | |
| 19 | Dr. N.B. PAWAR | |
| 20 | Dr. S.M. Mulcane | |
| 21 | Mr. Y.M. Khedkar | |
| 22 | Mr. Mukund M. Pawar | |
| 23 | Mr. S.M. Bagal | |
| 24. | B.P. Range | B Range |

Following business was transacted during the meeting.

Item No. 1:- Confirmation of the minutes of the last meeting.

Resolution No. 1:- Minutes of the meeting held on 28-05-2016 were read and unanimously confirmed.

Proposed by:- Prof. Mrs V. D. Jadhav

Seconded by:- Mis P. B. Kadam.

Item No. 2:- Review of work done in respect of functions of IQAC.

Resolution No. 2:- It was brought to the notice of the meeting that functions of IQAC can be divided into three categories viz. Academy Task, Administrative Task and Financial Task.

I - Review of academic functions was taken in the meeting as follows;

i) Academic calender was put before the meeting.

ii) Teaching plan of all the subjects was put before the meeting.

iii) ISCs and chapter tests were conducted in the First Semester of Academic Year 2016-17, as per Institute Policy.

iv) Slow learners were indentified and practice sessions were conducted.

v) Expert/Guest lectures were arranged in the departments.

vi) GD and moodle sessions were conducted.

vii) Four types of feed backs viz. feed back by Dean Academics in class, CR feed back, feedback in Students Council and Online feedback.

Appropriate action also taken based on feedback.

II- Review of administrative task was taken in the meeting as follows;

i) Meetings of Local managing committee, Board of Governors, Students' Council, Standing Committee, Deans and HODs meeting, General staff meeting, Grievance Redressel Committee, Women Grievance Redressel Committee, Academic Advisory Committee were conducted and minutes of these meetings were put before the meeting.

ii) Youth Festival was successfully organized by our college on 5-7 October, 2016.

iii) National Level Annual Technical Symposium - Olympus 2K16 was successfully organized on 15-16 September, 2016 for students.

iv) Functions like Teachers' Day, Engineers' Day, SVERI Foundation Day, Independance Day, Mahatma Gandi Jayanti were celebrated.

III → Review of financial task was taken in the meeting which is as follows;

i) Review of budget was taken regularly in Deans and HODs meetings. A special budget review meeting was also conducted by Dr S. M. Mukane on 21-08-2016.

ii) Circulars related to financial assistance to students and staff were put before the meeting

VI - The Annual Quality Assurance Report (IQAR) for Academic Year 2015-16 was put before the meeting.

Thorough discussion was made and it was unanimously resolved as follows,

i) Minutes of above mentioned committees, Circulars, Office Orders were approved.

ii) Overall responsibility chart in addition to academic load be prepared by each HOD.

iii) Dean R&D will prepare IPR policy in respect of research improvement quality.

iv) Sub committe under the coordinatorship of Dr. P. M. Pawar will prepare plan for quality benchmark for next accreditation cycle. members of the committee will be Dr. S.M. Mukane, Dr. Sridevi Bileep, Prof Mrs R.R. Bhosale, Dr. A.A Utpat and Prof Mrs M.M. Bhore.

v) There should be separate building for Library and R&D activities.

vi) To approve Annual Quality Assurance Report (IQAR) for Academic Year 2015-16 and be sent to NAAC.

Proposed by:- Prof. C.B. Madageeda
Seconded by:- Dr. S. M. Mukane.

Item No.5:- Issues with the permission of the Chair.
Resolution No.3:-

There being no further issue to discuss, meeting concluded with vote of thanks to the chair and all present.

S.Mukane
Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

B.Rose
PRINCIPAL,
College of Engineering,
PANDHARPUR

The meeting of the Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering was held on Sunday, 29-01-2017 @ 11:00 am in Institute Premises.

Following were present for the meeting.

| Sr No | Name | Signature |
|---|---|---|
| 01. | Dr. P.S. Kachare | |
| 2 | Mr. H.K. Bhaldar | |
| 3 | Ms. V.D Jadhav | |
| 4. | Mr. M.I. Bohari | |
| 5 | Dr. S.A. Lendave | |
| 6 | Dr Madhav K Raut | |
| 7 | Mr. C.C. Patanje | |
| 8 | Dr Abhay A Utpat | |
| 9 | Prof Misal N.D. | Misal |
| 10 | Mr. Zarkar R.G. | |
| 11 | Prof C.B. NADAGOUDA | |
| 12. | Mr. S.R. Gavali | |
| 13. | Pradnya Bharat Kadam | |
| 14. | Mr. S.M. Shinde | shinde |
| 15 | Mahesh Kamble | |
| 16 | Ms. Manasi Kshirsagar | Mshirsagar |
| 17 | Mr A.G. Korke | |
| 18 | Mr. S.L. Utpat | |
| 19 | Ms R.R. Bhosale | |
| 20. | Ms. M.M. Bhore | |
| 21 | Mr D Chikurde | |
| 22 | Mr. N.B. PAWAR | |
| 23 | Dr. S.M. Mukane | |
| 24 | Mr J.M. Bagal | |
| 25 | Mr. Y.M. Khedkar | |
| 26. | Mr. Mukund M. Pawar | |

Following business was transacted during the meeting.

Item No. 1:— Confirmation of the minutes of the last meeting.

Resolution No. 1:— The minutes of the last meeting held on 22-10-2016 were read and unanimously confirmed.

Proposed by:—Dr. P. S. Kachare

Seconded by:— / Prof V. D. Jadhav.

Item No. 2:— Review of work done in respect of functions of IQAC.

Resolution No. 2:— Review of work done in respect of functions of IQAC was taken in the meeting.

Thorough discussion was made and it was unanimously resolved as follows:

i) Improve quality of teaching and non-teaching staff. Arrange FDP programmes for them.

ii) Encourage the faculty for higher education i.e. M.E./M.Tech and Ph.D. as well.

iii) Faculty should arrange seminar for students about minor/major projects etc. Regarding this Dean students be requested to issue circular regarding this and this circular be sent to All Deans & HODs.

iv) Every class co-ordinator should take care of the students especially on 15th August and 26th January programmes, students will assemble first in their classroom. Class co-ordinator will take attendance and then class co-ordinator will take students on the ground and will take care of them untill programme is over. Dean students will prepare plan by discussing it with all Deans, HODs and other SVERI Institute Principals regarding standing arrangement of Boy students and Girl students, college wise and branch wise, standing place of class co-ordinators and other teaching

and non-teaching staff. Dean Students will inform all the concerned accordingly.

v) Arrange health check-up camp for all the students of SVERI. Proctor Teacher should check the reports of their students. If some major problem to any student then call their parents and tell them about the problem of their ward. Especially for ladies there is haemoglobin problem, to overcome this advise all the students to increase their haemoglobin by eating daily 15-20 tulsi leaves, Gul shergadane, Khajur, etc.

vi) Every member of Internal Quality Assurance Cell committee should come with two suggestions/problems in the next meeting.

vii) Yoga sessions be arranged.

viii) Ph. D. completed faculty should give seminar to the student on current technologies/presented or published paper by them.

ix) Standard policy and procedure for upkeep of documents be framed. For its framing, two member committee consisting of Dr. S. M. Mukane and Dr. P. S. Kachare be formed. It will submit its report in the next meeting of this committee.

x) Standard operating procedure for conduction of functions and meetings be framed by Dean Administration and Dean Students.

Proposed by:- Prof. C. B. Madagouda
seconded by:- Prof. S. R. Gavali

Item No. 3:- About future plans to improve quality.

Resolution No. 3:- It was brought to the notice of the meeting that planning for the quality improvement is necessary.

Thorough discussion was made and it

was unanimously resolved to constitute following committee to prepare plan to improve quality.

1) Dr. P M. Pawar – co-ordinator
2) Dr. Sridevi Bileap – Member
3) Dr. P. S Kachare – Member
4) Dr. S M. Mankane – Member
5) Dr. M.K. Raul – Member
6) Prof. S R Gavali – Member

This committee will submit its report on or before 15-06-2017 to the IQAC.

Proposed by :- Prof. N D. Misal
Seconded by :- Miss Mansi Kshirsagar

Item No. 4 :- Issues with the permission of the Chair.

There being no further issue to discuss, meeting concluded with vote of thanks to the Chair and all present.

SMankane
Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

B. Rangi
PRINCIPAL,
College of Engineering,
PANDHARPUR

The meeting of the Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering was held on Saturday, 10-06-2017 @ 11:00 am in the Institute premises.

Following were present for the meeting.

| Sr. No. | Name | Sign |
|---|---|---|
| 1. | Prof. C.B. Nadagouda | |
| 2 | Dr. S.M. Mukane | |
| 3 | Mr. H.D. Misal | |
| 4 | Ph. P.G. Gaikwad | |
| 5. | Dr. P.S. Kachare | |
| 6. | Mr. Karan B. Patil | |
| 7 | Dr. Madhav K Raut | |
| 8. | Mr S.M. Bagal | |
| 9 | Mrs S.L. Utpat | |
| 10 | Dr. A.S. Vibhute | |
| 11. | M.M. Ghore | |
| 12 | R.N. Misal | |
| 13 | Mr R.G. Zarkar | |
| 14 | S.M. Shinde | |
| 15 | A G. Korke | |
| 16 | Dr S. A. Lendave | |
| 17 | Mr. M I. Bohari | |
| 18 | Dr. N.B. PAWAR | |
| 19 | Dr. Prashant M. Pawar | |

Following business was transacted during the meeting

Item No.1:- Confirmation of the minutes of the last meeting.

Resolution No.1:- The minutes of the last meeting held on 29-01-2017 were read and unanimously confirmed.

Proposed by:— Dr. S.M. Mulcine
Seconded by:— Prof. C.B. Hadagouda

Item No. 2:— Review of work done in respect of functions of IQAC.

Resolution No. 2:— Review of work done in respect of functions of IQAC was taken in the meeting which was in respect of the following.

i) FDP programs for teaching & non-teaching staff
ii) List of faculty members doing higher education.
iii) Displine during the functions.
iv) Visits of students and staff members to R&D activities.
v) Result analysis.
vi) Preparation of Annual Quality Assurance Report.

Meeting unanimously took the note of the above.

Proposed by:— Dr. A.S Vibhute
Seconded by:— Dr. N.B Pawar

Item No.3:— About Future Plans to improve quality.

Resolution No.3:— Future Plans for improvement of quality were discussed in the meeting. Thorough discussion was made and it was unanimously resolved as follows;

i) Google based document repository system be kept in implementing.
ii) Subject numericals be prepared in excell sheet to change form of the numerical easily.
iii) To bring awareness and implementation about Academic Audit, session of Dr. N. B. Pawar be arranged.
iv) Before arranging FDP, training need anlysis be carried out.
v) Communication improvement sessions to staff members be arranged for next two months. Prof Nagawade will be resource person for

these sessions.

v.) To improve quality of projects, industry survey and social survey be carried out and based on that data bank of projects be created.

vi.) HOD should make cluster wise subject slides about important concepts form that area and 2 to 3 days sessions be arranged for TE students in each semester. This sessions should be conducted by Professor or Associate Professor level faculty.

vii.) Booklet of all rules and regulations of Institute be prepared for students and staff.

ix.) Respective HOD should meet or receive their concerned company person who have came for placement on the day of placement.

Proposed by:- Dr. P. S. Kachare
Seconded by:- Dr. M. K. Raul

Item No.4:- Issues with the permission of the Chair.

Resolution No.4:-

As there being no further issue to discuss, meeting concluded with vote of thanks to the Chair and all present.

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

Principal
College of Engineering,
PANDHARPUR

The meeting of the Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering was held on Sunday, 24-09-2017 @ 10.00 am in the Institute Premises.

Following were present for the meeting.

| Sr. No. | Name | Sign. |
|---|---|---|
| 1. | Gaurishagupta Talukdar | |
| 2. | S. A. Kendave | |
| 3 | S. R. Gavali | |
| 4 | P. S. Kadare | |
| 5 | Abhay A Utpat | |
| 6 | Mr. R. G. Zankar | |
| 7 | C.B. Nadagouda | |
| 8. | Dr. Prashant M. Pawar | |
| 9. | Mrs. V. D. Jadhav | |
| 10 | Mr. P.G. Gaikwad | |
| 11. | Mr. S. M. Bagal | |
| 12. | Mr. C.C. Patange | |
| 13 | Dr. Madhav K Raul | |
| 14. | Dr. A.S. Vibhute | |
| 15 | Dr. S.M. Mukane | |
| 16 | Dr. N.B. PAWAR | |

Following business was transacted in the meeting

Item No. 1. Confirmation of the minutes of the last meeting.

Resolution No. 1. Minutes of the last meeting held on 10-6-2017 were read and unanimously confirmed.

proposed by: Dr. S.A. Lendave
seconded by: Dr P.S. Kedare

Item No. 2: About Review of Quality Assurance Activities.

Resolution 2: It was brought to the notice of the meeting that the following quality assurance activities were carried out.

i) To improve communication of faculty and staff two months Communication Improvement Programme was conducted.

ii) Practice sessions of typical subjects were conducted

iii) Alongwith ISE, chapter tests & Lab tests were conducted.

iv) Annual technical symposium 'Olympyad-17' was successfully organized on 15th & 16th Sep. 2017 for students.

v) Training sessions to improve the soft skills, aptitude were organized for the students.

vi) Group Discussions, personal interview sessions were conducted for the students.

vii) Every department has inaugurated this years student Association activities

viii)

proposed by: Dr N. B. Pawar
seconded by: Dr. S.M. Tajuddin

Item No. 3 About AQAR 2016-17

Resolution No. 3. It was brought to the notice of the meeting that after NAAC accreditation we have to submit Annual Quality Assurance Report (AQAR) every year to the NAAC. The AQAR for the academic year 2016-17 was put before the meeting.

Thorough discussion was made and it was unanimously resolved to approve the AQAR 2016-17 to send it to NAAC

Proposed by: Samudragupta Talukdar
Seconded by: Dr. Prashant Pawar

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering
Pandharpur

PRINCIPAL
College of Engineering
PANDHARPUR

The meeting of the Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering was held on Saturday, 25-11-2017 @ 2:00 p.m in the Institute Premises. Following members were present for the meeting

| Sr. No. | Name | Sign |
|---|---|---|
| 1 | Prof C.B. Nadargouda | |
| 2. | Mr. P.G. Gaikwad | |
| 3. | Mr. R.G. Zarkar | |
| 4. | Dr. S.A. Lendave | |
| 5 | S.R. Gavad | |
| 6 | S.A. Pawar | |
| 7. | Dr. P.S. Kachare | |
| 8. | Dr Abhay A Utpat | |
| 9. | Dr. S.M. Mukane | |
| 10. | Somnath Talukdar | |
| 11 | B.P. Ranje | |
| 12 | J.B. Gaikwad | |
| 13 | Dr. N.V. Thorbole | |
| 14. | Dr. A.C. Vibhute | |
| 15 | Mr. S.M. Shinde | |
| 16 | Mrs J.L. Utpat | |
| 17. | Dr. Prashant M. Pawar | |
| 18. | M.M. Kinge | |
| 19 | Karan B. Patil | |
| 20 | Dr. N.B. PAWAR | |

Following business was transacted during the meeting.

Mr Sachidanand Kulkarni communicated his inability to attend the meeting. Meeting unanimously took the note of the same and accorded leave of absence to him.

Item No.1:- Confirmation of the minutes of the last meeting.

Resolution No.1:- The minutes of the last meeting held on 24-09-2017 were read and unanimously confirmed.

Proposed by: Dr. S.M. Mukane

Seconded by:- Dr. P.S. Kachhave

Item No. 2:- About Quality Assurance Activities.

Resolution No. 2:- It was brought to the notice of the meeting that following Quality Assurance Activities are being carried out.

i) Backlog sessions: Backlog sessions are being organized for the subjects where the results are not upto the mark. The names of subjects for backlog sessions are decided in the Deans & HODs meeting.

ii) Practice sessions: Practice sessions for difficult subjects are being arranged. These subjects are decided in the Deans & HODs meeting.

iii) Training: Various trainings are being arranged for the students to improve their softskills & Technical skills and in turn to increase placement of students.

iv) HR Activities: Human Resource Development Trainings through Workshops, FDPs, STTPs, Seminars are being provided to teaching and non-teaching staff members.

v) Feedback sessions: Three different kinds of feedbacks are collected from the students and action is taken on the same. These feedbacks are as follows:

a) Feedback taken by Dean Academics once in a semester.

b) Feedback taken by HOD from C.R. and two to three students of the class.

c) Suggestion box opened weekly.

vi) Result Analysis is being carried out every semester and accordingly result targets are set.

Meeting unanimously took the note of the above and accorded its approval.

Proposed by:- Dr. P.M. Pawar

Seconded by:- Prof. C.B. Mallapgonde

Item No. 3:- Issues with the permission of the Chair.

Item No. 3(i):- About Quality Benchmarks / Parameters.

Resolution No 3(i):- It was brought to the notice of the meeting that we have Quality Benchmarks / Parameters for various Academic and Administrative activities in the Institute.

Thorough discussion was made and it was unanimously resolved as follows:

a) Following sub committee for compilation of existing Quality Benchmarks / Parameters and suggesting additional Quality Benchmarks / Parameters for Academic, Administration, Students Activities, etc.

| Sr. No. | Name | Designation |
|---|---|---|
| 1. | Dr. S. M. Mukane | NAAC Co-ordinator |
| 2. | Dr. P. M. Pawar | Dean Academics |
| 3. | Dr. M. K. Rana | Dean TPO |
| 4. | Dr. A. S. Vibhute | HOD, EXTC |
| 5. | Dr. P. S. Kachare | HOD, Mech |

b) This committee submit its report on or before 31-01-2018 to the Principal

Proposed by:- Dr. B. P. Ronge

Seconded by:- Mr. S. B. Gaikwad.

Item No. 3(ii) About Quality Culture in the Institute.

Resolution No 3(ii):- It was brought to the notice of the meeting that we have been taking efforts on different fronts for building and maintaining Quality Culture in the Institute as per the details given below:

(i) Academic front:

Pandharpur Pattern in Professional Education (PPPE) and related circulars are the guiding documents for maintaining Quality Culture in

teaching learning process, students and staff development, co-curricular & extra curricular activity.

b) Admission front:

System Manual, HR manual and related circulars are guiding documents in maintaining Quality Culture on admission front.

The above documents were put before the meeting. Meeting unanimously took the note of the above.

Proposed by:- Dr. S.M. Mulgane
Seconded by:- Prof. S. R. Gavali;

S.M. Mulgane
Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering
Pandharpur

B. Ranje
PRINCIPAL,
College of Engineering,
PANDHARPUR

The meeting of the Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on Saturday, 10-03-2018 @ 11.00 am in the Institute Premises.

Following members were present for the meeting.

| Sr. No. | Name | Sign. |
|---|---|---|
| 1. | Dr S. A. Lendave | |
| 2. | S. M. Bagal | |
| 3 | S. M. Shinde | |
| 4 | Karan B. Patil | |
| 5 | Dr. N. V. Khandekar | |
| 6 | Mukund M. Pawar | |
| 7 | Mr. R. G. Zarkar | |
| 8. | Saundragupta Talukdar | |
| 9. | Dr. S. M. Mukane | |
| 10. | MES R. N. Misal | |
| 11. | M. M. Bhore | |
| 12. | Dr. Mrs. M. M. Patil | |
| 13 | V. D. Jadhav | |
| 14 | Dr A S Vibhute | |
| 15 | Dr. Prashant Maruti Pawar | |
| 16 | S. N. Kulkarni | |
| 17 | Shaun Shrinivas Yennul (Invitee) | |
| 18 | B. P. Rage | |
| 19 | Dr. N. B. PAWAR | |
| 20 | Mr. R. D. Bendgude (Invitee) | |
| 21 | Mr. B. D. Ceicell | |
| 22 | Mr. S. R. Gaval | |
| 23 | Dr Abhay Utpat | |
| 24 | Patil Ashok Laxman | |
| 25 | Gaikwad J. B. | |

Following business was transacted during the meeting. Mr. ~~[illegible]~~ Sachidanand

Kulkarni communicated his inability to attend the meeting. Meeting unanimously took the note of the same and accorded leave of absence to him.

Item No 1. Confirmation of the Minutes of the last meeting.
Resolution No 1 The minutes of the last meeting held on 25/11/2017 was read and unanimously confirmed.

proposed by :- Mr. Sandeep K. Tatwawadi
seconded by :- Dr M. M. patil.

Item No. 2 About Quality benchmarks / Parameters.
Resolution No 2 It was brought to the notice of the meeting that a committee was constituted through office order No. COEPR/2017-18/0.0./60(A) dated 29/11/2017 to compile the existing quality Benchmarks / parameters and also suggesting the additional parameters for academic, administrative, students activities etc. The interim report of the committee was put before the meeting.

Thorough disussion was made and it was unanimously resolved that committee Should prepare & submit report in due time based on Background, Existing parameters and New Benchmarks / parameters suggested along with Set targets.

proposed by :- Dr. N. B. Pawar.
seconded by :- Dr. A.S. Vibhute.

Item No 3 About Feedback from Stakeholders.
Resolution 3. It was brought to the notice of the meeting that Feedback are being collected regularly

from Stakeholders namely Students, Parents, Alumni and Employers. The detail report about feedback given by these stakeholders and action taken report on the given feedback was put before the meeting.
Thorough discussion was made and it was unanimously resolved that copy of action taken report be given to the concern Students / Parents / Alumni / Employers as the case may be.

proposed by :- Dr. P. M. Pawar
Seconded by :- Dr. A. A. Utpat

Item No. 4 About Workshops, Seminars, FDPs & STTPs.

Resolution No 4. The department wise report on conducted Workshops, Seminars, FDPs and STTPs was put before the meeting.
Meeting unanimously took the notice of the same.
Thorough discussion was made and it was unanimously resolved that Deans Students will prepare plan of Student activities every year in consultation with respective HODs

proposed by :- Prof. S. N. Kulkarni
Seconded by :- Dr. N. V. Khadake.

Item No. 5. About our Best practices.

Resolution No 5. It was brought to the notice of the meeting that Institute implements following best practices.

1. Pandharpur Pattern in professional Education (PPPE)
2. Communication Improvement program. (CIP).
3. Principal Darbar.
4. Night Study session.
5. Practice Session.
6. Proctor Session.
7. Earn and Learn Scheme.
8. Cash Prizes to Meritorious Students.
9. Swachha Bharat Abhiyan.
10. pranayam session.
11. Conducting functions on important days in stead of giving holiday.

The related documents, Circulars were also put before the meeting. Meeting unanimously took the note of the Some.

Proposed by :- Dr. S.M. Mukane
seconded by :- Prof. V.D. Jadhav.

Item No. 6. About Tutelbot Institute Management System [TIMS]

Resolution 6. It was brought to the notice of the meeting that Institution in association with our Alumni Mr. Somudragupta Talukdar is developing Tutelbot Institute Management System [TIMS]. It has different modules right from pre admission management to Alumni Management. Following modules are present in the system.

1. pre Admission Management.
2. Academic Memagement.
3. Time-table Memagement.
4. Admission Management.

5. Leave management.
6. HR Management.
7. Financial Management.
8. Inventory Management.
9. Hostel Management.

These TIMS software is being used for most of the modules.

Meeting unanimously took the note of the above and expressed satisfaction over the development of the software.

proposed by :- Dr. S. A. Londekar.
seconded by :- Prof M. M. Pawar.

Item no 7 Issues with the permission of the Chair.

Resolution:- As there being no further issue to discuss, meeting concluded with vote of thanks to the chair and all present.

proposed by :- Dr N. I. Khadake.
seconded by :- Dr S. M. Mukane.

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

PRINCIPAL
College of Engineering,
PANDHARPUR

The meeting of the Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on Saturday, 28/07/2018 @ 11.00 am in the Institute premises.

Following were present for the meeting.

| Sr. No. | Name. | Sign. |
|---|---|---|
| 1. | Dr. Prashant Maruti Pawar | |
| 2. | Dr A S Vibhute | |
| 3. | Mrs - V-D-Jadhav | |
| 4. | MES R N Misal | |
| 5. | M.M. Bhore | |
| 6. | Mr. R.G. Zarkar | |
| 7. | Mr. S.M Bagal | |
| 8. | Mukund Maruti Pawar | |
| 9. | S. A. Lendave | |
| 10. | Abhay A Utpat | |
| 11. | Karan B. Patil | |
| 12. | Dr. Kachare P.S. | |
| 13. | S.N Kulkarni | |
| 14. | Dr. S.M. Mukane | |
| 15. | C.P Range | |
| 16) | Ashwini. C. Charan. (CAC Member - Invitee) | |
| 17) | Samudragupta Talukdar - Alumni Member. | |
| 18) | B.D. Lavicend | |
| 19. | Dr. Mrs. M. M. Patil | |
| 20) | Waghmode R.B. | |
| 21) | Mr. S.J Salunkhe | |
| 22) | Mr. J.B. Gaikwad - Parent - Member | |
| 23) | Dr. N.B. PAWAR | |
| 24) | Dr. R.R. Gitte | |

Miss Ashwini Chavan Madam, Management Council Member, Solapur University Solapur has attended the meeting as Invitee.

Following business was transacted in the meeting

Item No 01: Confirmation of the minutes of the last meeting

Resolution 1: The minutes of the last meeting held on 10/03/2018 were read and unanimously confirmed with modification in Resolution No 04. which read to be as "Thorough discussion was made and it was unanimously resolved that Dean Academic will prepare plan of workshop, seminars, FDPs and STTPs every year in consultation with respective HODs".

Proposed by: Dr. P.M. Pawar
Seconded by: Dr. P. S. Kachare

Item No.02: About status of quality benchmarks/parameters
Resolution No: 2: It was brought to the notice of meeting that a committee was constituted to compile the existing quality benchmarks/parameters and also suggesting additional parameters for academic administrative student activities etc. Committee has set the parameters. Work of benchmark setting is remaining. Committee is seeking extension to complete its work.

Thorough discussion was made and it was unanimously resolved to sanction extension to the committee to complete its work. However report be submitted in next meeting.

Proposed By: Dr. P. S. Kachare
Seconded By: Dr. M.K. Raul.

Item No.03 About Iso manuals:
Resolution No 03: It was brought to the notice of the meeting that there are total three ISO manuals namely List manual, Process manual, and Quality manual.

The copy of these manuals was put before the meeting.

Thorough discussion was made and it was unanimously resolved as follows:

i) All the ISO manuals be revised. The revision work be completed in every respect and accordingly the updated manual be put in the next meeting.

ii) Prof. Miss Ra. M. Bhore will present a session on these manuals to all staff in the induction programme to be conducted at the start of every semester.

Proposed By : Dr. M.K Raul.
Seconded By : Dr. P.S. Kachave

Item No.04: About Workshops, Seminars, FDPs and STTPs for staff.

Resolution No.04: The detailed department wise report about activities conducted upto now in 2018 and activities planned upto 31st Dec. 2018 were put before the meeting.

Thorough discussion was made and it was unanimously resolved as follows:

i) Activity plan should be yearly.

ii) MBA department should arrange for staff development activity to our non teaching staff.

Proposed by : Dr. S.A. Londhe
Seconded by : Dr. M.K Raul.

Item No.05: About student support and progression

Resolution No 05: The detailed deprotment wise reports about student support and progression activities conducted in academic year 2017-18 and activities planned in the academic year 2018-19 were put before the meeting.

Meeting unanimously took the note of the

same.

Proposed by: Dr. S.M. Phirke.
Seconded by: Dr. A.S. Vibhute.

Item No 6 Issues with the permission of the chair.

Item No 6-i) About NPTEL Courses:

Resolution: It was brought to the notice of the meeting that AICTE has signed MoU with NPTEL for recognizing NPTEL MOOCs Courses as FDPs for faculty promotions under CAS accordingly AICTE has sent letter no AICTE/RIFD/FDP through MOOCs/2017-18 dat 24/07/2018 to all institutes. Copy of this letter along with details of NPTEL courses was put before the meeting. It is necessary to promote registration of NPTEL courses such that all the faculty members will register for minimum one course in their area every year. These courses are available online and free of cost. However its exam fees is about Rs. 1100 per course per person.

Thorough discussion was made and it was unanimously resolved to recommend the BOG that institute shall contribute to the tune of 50% of the exam fee per course per person.

Proposed By: Dr. B.M. Bagal.
Seconded By: Dr. B.P. Ronge.

Item No 6-ii) About NAAC

Resolution No. 6-ii) It was brought to the notice of meeting that Prof. Dr S.M. Phykane is NAAC Coordinator. Also Dr. Phykane handling so many other responsibilities along with Dean Administration.

Thorough discussion was made and it was unanimously resolved as follows:

a) Prof. S.N. Kulkarni will work as NAAC Co-ordinator in place of Prof. Dr. S.M. Phykane.

immediate effect.

b) Prof. S.N. Kulkarni will prepare gap analysis for NAAC Accreditation.

c) Prof. S.N. Kulkarni will also look after infrastructure related work.

Proposed by: Dr. S.A. Lendhave
Seconded by: Prof. Dr. Mrs. [illegible] Patil.

Item No 6-II) About induction programme to FE students

Resolution No 6-II) It was brought to the notice of the meeting that as per the AICTE requirement induction programme need to be conducted to all admitted FE students.

Thorough discussion was made and it was unanimously resolved that Dean student will prepare plan of 30 Hours Induction Programme to every FE students and execute it immediatly after the FE admission process.

Proposed by: Prof. Mr. V.D. Jadhav
Seconded by: Dr. S.A. Lendhave.

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI's College of Engineering
Pandharpur

PRINCIPAL
College of Engineering
PANDHARPUR

The meeting of the Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering Pandharpur was held on Saturday, 22/09/2018 @ 10.00 AM in the Institute premises.

Following were present for the meeting

| Sr. No. | Name | Sign. |
|---|---|---|
| 01 | C.B. Nadagouda | |
| 02 | B.P Ranje | |
| 03 | Prashant M. Pawar | |
| 04 | S.N. Kulkarni | |
| 05 | A S Vibhute | |
| 06 | Dr. Mrs M.M. Patil | |
| 07 | R.N. Misal | |
| 08 | M.M. Bhore | |
| 09 | S. A. Lendave | |
| 10 | M.K Rama | |
| 11 | S.M. Shinde | |
| 12. | Karan B. Patil | |
| 13. | Dr. Kachare P.S. | |
| 14. | S. R. Garad | |
| 15. | Mr. S.M. Bagul | |
| 16 | Mr. P.G. Gaikwad | |
| 17 | Dr. Abhay A Utpat | |
| 18 | Dr. N.B. PAWAR | |
| 19 | Dr. R. BaleSubramanian | |
| 20. | Dr. R. R. Gidde | |
| 21 | Kore Akshaykumar Gururaj | |

Item No. 1 Resolution No. 1.

Following business was transacted in the meeting

Confirmation of the minutes of the last meeting

The minutes of the last meeting held on 28/07/2018 were read and unanimously confirmed with following modifications:-

1) Resolution No. 1, Item No. 1 be read as "the minutes of the last meeting held 28/07/2018

were read and unanimously confirmed with modi
fication in Resolution No. 1 as" Thorough discussi
was made, and it was unanimously resolved tha
Dean Academics shall prepare plan of FDPs and
Dean R & D shall prepare plan of Workshops,
Seminars, STTPs, etc. every year in consultation
with respective HODs".

Proposed by :- Dr. P. M. Pawar.
Seconded by :- Dr. M.S. M.M Patil.

Item No. 2 About Submission of Annual Quality Assurance Report (AQAR) For A.Y. 2017-18.

Resolution No. 2 It was brought to the notice of the meeting that For A.Y. 2017-18 We need to Submit Annual Quality Assurance Report (AQAR) before 21/12/2018 in old format and copy of the same be uploaded on Website and resolved that NAAC Co-ordinator should prepare the report on or before 31/10/201 and put it before the next meeting of IQAC.
Meeting took the note of same.

Proposed by :- Dr. N. B. Pawar.
Seconded by :- Dr. P. S. Kachare.

Item No. 3 About ISO manuals.

Resolution No. 3. It was brought to the notice of the meetin that ISO Manuals are required to be revised.
Thorough discussion was made and it was unanimously resolved that prof. MS M. M. Bhore shall ensure that all the ISO Manuals be revised on or before 31/10/2018.

proposed by :- Dr. N. B. Pawar.
Seconded by :- Dr P. S. Kachare

Item No. 4 About future plans to improve the quality.

Resolution No. 4. Following was brought to the notice of the meeting :-

i) Industry survey For improving the quality

of projects be done.

ii) Data related to cluster wise subject slids about important concepts be prepared.

Thorough discussion was Made and it was unanimously resolved to approve the above and ensure that the uniformity be maintained by each departments in respect of above.

Proposed by :- Dr. P.S Kachare.
Seconded by :- Dr. N. B. pawar.

Item No. 5. Isses with the permission of the chair.

Item No 5 i) About Quality Benchmarks / parameters.

Resolution No. 5 i) The report prepared by Sub-Commitee about Quality Benchmarks / Parameters was put before the meeting.

Thorough discussion was made and it was unanimously resolved that the sub-Committee will submit a revised report on or before 31/10/2018.

Proposed by :- Dr. A.S. Vibhute.
Seconded by :- Dr. R.R. Gidde

Item No. 5 ii) About Changes in IQAC Committee Members.

Resolution No. 5 ii) It was brought to the notice of the meeting that previous IQAC committee members namely Dr. Mrs. Shridevi Dileep, prof. Dr. S.M Mulgane Prof. C. C. Padange, Prof. S. L. Utpat have left the Institute.

| Sr.No. | Name of previous Member | Name of newly appointed member | Designation | Representative From. |
|---|---|---|---|---|
| 1. | prof. Dr. S. M. Mulgane Dean Administration | Dr. R.R. Gidde Dean Administration | Member | One of the Senior Teacher as the co ordinator of IQAC |
| 2. | Dr. Shridevi Dileep Dean R&D | Dr. Mrs M.M. Padil Dean R&D | Member | A Fao Senior Administrative Officers. |

| | | | | |
|---|---|---|---|---|
| 3. | Prof. C.C. Padenge HOD MBA | Prof. K.B. Patil HOD MBA | Member | A few Senior Administrative Officers. |
| 4. | Prof. S.L. Utpat | Prof. S.Y. Salunke | Member | Three to Eight teachers. |
| 5. | Dr. Mrs. M. Patil | Prof Mrs. D.A Tambali | Member | Three to Eight teachers. |
| 6. | Prof. K. B. Patil | Prof. A. M. Dyade | Member | Three to Eight teachers. |

Proposed by :- Dr. B. P. Rooge.
Seconded by :- Dr. P. S. Kachare.

Item No 5 About online Feedback.

iii)

Resolution No. iii) It was brought to the notice of the meeting that in addition to physical Feedback of the students, we will go for online Feedback. on this line, issue of going for online Feedback was put before the meeting.

Thorough discussion was made, and it was unanimously resolved also to go for online Feedback and further resolved as Follows:

a) HOD should make available the online Feedback to all the subject teachers.

b) The concerned HODs should make the analysis and give suggestions to the concerned subject teacher wherever improvement is required.

c) The following committee should prepare structured Formats for all Feedback Forms Viz. Alumni Feedback form, parent

Feedback Form, Programme End survey, course End survey and employer survey.

Dr. R. R. Gidde – chairman.
Dr. S. S. Wangikar – member secretary.
Dr. P. M. Pawar – Member
Dr. Mrs. M. M. Patil – Member
Dr. A. S. Vibhute – Member.

This committee should submit its report on or before 30/11/2018 which put before the next meeting of IQAC.

proposed by:- Dr. M. K. Rakh
seconded by:- Dr. P. M. Pawar.

Item No. 5 iv) About Suggestion given by NAAC on Quality improvement.

Resolution No. 5 iv) Following was brought to the notice of the meeting.

a) NAAC committee visited our College has given suggestions on quality improvement to each deperatment.
b) Gap analysis based on NAAC committee Report.
c) Thorough discussion was made and it was unanimously resolved as follows:
a) HOD should come out with circular to improve upon the suggestions given by NAAC committee during their visit.
b) Review about NAAC committee Report be taken in respect of Gap Analysis.

proposed by: Dr. A. A. Utpat
seconded by:- Prof. S. R. Gavali

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

PRINCIPAL,
College of Engineering,
PANDHARPUR.

The meeting of the Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on Monday, 11/02/2019 at 11.00 in the Institute premises.

Following were present for the meeting.

| Sr. No. | Name | sign. |
|---|---|---|
| 01 | S. R. Gavali. | |
| 02. | Mr. R. G. Zarkar | |
| 03. | Mrs. D. A. Tamboli | |
| 04 | Dr. S. A. Lendave | |
| 05 | Dr. A. B. Shinde | |
| 06 | Dr A S Vibhute | |
| 07 | V. S. Kshirsagar | |
| 08. | Dr. Madhav K Raut | |
| 09 | Dr. Nikhil D. Karande | |
| 10 | Karan B. Patil | |
| 11. | M. M. Bhore | |
| 12. | R. N. Misal | |
| 13 | Mrs B. D. Chikane | |
| 14 | Mr. S. Y. Salunkhe | |
| 15 | Mr. S. M. Bagal | |
| 16. | Dr. P. S. Kadhare | |
| 17. | Dr. S. S. Wangikar | |
| 18. | Mr. Antosh Madappa Dyade | |
| 19. | Mr. S. M. Shinde | |
| 20 | Dr Abhay A Utpat | |
| 21 | Dr. R. R. Gidde | |
| 22 | Prof. C.B. Nadagouda | |
| 23 | Kore Akshaykumar Gururaj | |
| 24 | B. P. Ronge | |
| 25 | J. B. Gaikwad. | |

Following business was transacted in the meeting.

Item No 1 Confirmation of the minutes of the last meeting.

Resolution No. 1 The minutes of the last meeting held on 22/09/2018 were read and unanimously confirmed.

Proposed by : Dr. R. R. Gidde
Seconded by: Prof. S. R. Gawali

Item No 2 Review of work done in respect of functions of IQAC.

Resolution No. 2. The review of work done in respect of IQAC functions was taken in the meeting. The meeting took the note of the same.

proposed by : Dr. A. B. Shinde
Seconded by: Miss. M. M. Bhose.

Item No. 3 About NAAC

Resolution No. 3 The criteria wise gap, weaknesses and recommendation for quality enhancement of Institution given by NAAC Committee were put before the meeting.

Thorough discussion was made and it was resolved that the HOD's, Deans and NAAC co-ordinator should work to overcome gap, weaknesses and also decided to work on recommendations.

Proposed by : Dr. P. S. Kachare
Seconded by : Prof. B. D. Gaikwad

Item No. 4 About Quality Benchmark / Parameters.

Resolution No. 4 Following was brought to the notice of the meeting

1. The sub-committee including Prof S.N Kulkarni (NAAC coordinator), Dr. P.M. Pawar (Dean Academics), Pr. P.S. Kachare (HOD, Mech), Dr. M.K. Raul (Dean TPI) and Dr. A.S. Vibhute (HOD, E&TC) was formed to submit revised report on quality benchmarks.
2. Sub-committee was supposed to submit revised report on quality benchmarks on or before 31st October 2018.
3. However, sub committee has not submitted the revised report till date.

Thorough discussion was made and it was unanimously resolved as follows:

1. As Prof S.N Kulkarni has left the Institute, in his place Dr. S.S. Wangikar is going to replace him as a member being NAAC co-ordinator.
2. The sub-committee should submit the revised report on quality benchmarks on or before 20th February 2019.

proposed by: Dr. S.A. Lendave
Seconded by: Dr. A.S. Vibhute

Item No. 5 — About workshops, seminars, FDPs / STTPs.

Resolution No. 5 — The department wise review about work shops, seminars, FDPs / STTPs conducted till date and planned workshops, seminars, FDPs / STTPs was taken in the meeting. The meeting took the note of the same.

proposed by: Dr. N.D. Kazande
Seconded by: Mr. S.M. Bagal.

Item No.6 About ISO manuals.

Resolution No.6 The ISO quality manual of SYERI was put before the meeting.
The meeting took the note of the same and appeoved the quality manual.
proposed by: Dr. M.K. Rawl
Seconded by: Mrs. D.P. Tamboli

Item No 7 Issues with the permission of the chair.

Item No. 7(1) About suggesting formats for feedback forms.

Resolution No. 7(i) Folowing was brought to the notice of the meeting.

1. The following committee was supposed to prepare structured formats for all types feedback forms viz., Alumni Feedback Form, Parent feedback Forms, Peogramme End Survey, Course End Survey and Employer Survey.
2. However, it seems that till date the committee has not submitted the structed formats for all types of feedback forms.

Thorough discussion was made and it was unanimously resolved as follows -

1. The committee should conduct the meeting and submit the report on or before 25th February 2019.
2.

5. HOD's should ensure that appropriate

steps can be taken based on the feedback from the students.

proposed by: Dr. B.B. Utpat
Seconded by: Prof. A.M. Dyade

Item No. 7(2) About seed Money Policy and Mechanism.

Resolution No. 7(2) following was brought to the notice of the meeting.

1. The endorsement of seed Money is required to be made.
2. There is need to form a policy and mechanism for Seed Money to have proper utilisation of the Seed Money

Thorough discussion was made and it was unanimously resolved as follows.

1. The following committee is formed for deciding the policy and mechanism for Seed Money Proposal.
   1. Ms. D.A. Tamboli (Chairman)
   2. Dr. M.K. Raut (Member)
   3. Dr. A.S. Vibhute (Member)
   4. Dr. P.S. Kachare (Member)
   5. Dr. A.B. Shinde (Member)
   6. Dr. S.S. Mangikar (Member)
2. The above mentioned committee should submit the Report of policy and Mechanism on or before 25th February 2019.

proposed by: Dr. B.P. Ronge
Seconded by: Ms. R.G. Zarkar

Item No.7(3) About adding members in IQAC Committee.

Resolution No.3 The following was brought to the notice of the meeting.

1. Dr. Mrs. M.M. Patil Professor in Electronics & Telecommunication Engineering Department and Dean R&D of our college. She is absent since 01/12/2018.

The meeting took the note of the same and resolved as follows:

1. Dr. A.B. Shinde, Assistant Professor and New Dean R&D in Mechnical Engineering Department is going to replace Dr. Mrs. M.M. Patil as a member of IQAC committee.

proposed by: Dr. A.A. Utpat
seconded by: Dr. P.S. Kachare.

Item No.7(4) About Status report of Sponsored projects.

Resolution No.7(4) The following was brought to the notice of the meeting.

1. We have got sponsored projects from Maratthwade Association of Small scale Industries & Agriculture (MASSIA)
2. The response given by our faculty members and students is poor.

Thorough discussion was made and it was unanimously resolved as follows:

1. The individual project reports be prepared by the guides of respective students who are having sponsored projects.
2. The detailed summary containing status of each sponsored project be prepared by the HODs.
3. The Status Report should be submitted

on or before 20th February 2019 to Dean TP II, Dean R&D and Dean Administration.

proposed by : /R.N.Misal

seconded by : /M.M.Bhore.

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

PRINCIPAL,
College of Engineering,
PANDHARPUR

The Meeting of Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on Saturday, 27/04/2019 at 04 00 pm in the Institute Premises.

Following members were present for the meeting

| Sr. No. | Name | Sign. |
|---|---|---|
| 1 | Akshaykumar G. Kore | |
| 2 | Mr. R. G. Zarkar | |
| 3. | Mr Karan B. Patil | |
| 4. | Dr. S.B. Salunkhe | |
| 5. | Dr. P.S. Kachare | |
| 6. | Dr. Prashant M. Pawar | |
| 7. | Dr. Yadav D. M. | |
| 8. | Mr. S. M. Bagal | |
| 9. | Mr. M. Bhore | |
| 10. | Mr. R.N. Misal | |
| 11 | Dr. N.D. Karande | |
| 12 | Dr Abhay Utpat | |
| 13 | Dr. S.A. Lendave | |
| 14. | Abhijay Shravan Kumar | |
| 15 | Dr. S.S. Wangikar | |
| 16 | S R Garad | |
| 17 | Prof. C.B. Nadagouda | |
| 18 | Dr R R Gidde | |
| 19 | Dr. N.B. PAWAR | |
| 20 | B.D. Gaikwad | |
| 21 | S.Y. Salunkhe | |
| 22 | Dr A S Vibhute | |
| 23 | J. B. Gaikwad | |

Following business was transacted during the meeting.

Item No. 1 Confirmation of the minutes of the last meeting.

Resolution No. 01. The Minutes of the last meeting held on 11/02/2015 were read and unanimously

confirmed.

Proposed by :- Dr. R. R. Gidde
Seconded by :- Dr. A. A. Utpat

Item No 2. About Review of AQARs for A.Y. 2015-16, 2016-17 and 2017-18.

Resolution No. 2. The review of AQARs for A.Y. 2015-16, 2016-17 and 2017-1 was taken in the Meeting.
Meeting took the note of the same.

Proposed by : Mr. A. G. Kore
Seconded by : Mr. R. G. Zarkar

Item No. 3 About Submission of AQAR for A.Y. 2018-19.

Resolution No. 3 It was brought to the notice of the Meeting that we need to submit AQAR for A.Y. 2018-19 before 31st December 2019.
Meeting took the note of the same.
The AQAR for the A.Y. 2018-19 will be ready on or before 30th September 2019 and submitted in October 2019.

Proposed by : Mr. K. B. Patil
Seconded by : Dr. S. B. Salunkhe

Item No. 4 About NAAC Preparation for 2nd cycle.

Resolution No. 4 Following was brought to the notice of the Meeting that we are going to submit Institutional Information for Quality Assessment (IIQA).

Thorough discussion was made unanimously resolved as follows :

1) All criterion coordinators will submit the NAAC realated Excel sheets Quantitative matrices $(QN)_M$ as per the requirment on or before 15/06/2019.
2) All criterion coordinators will submit the NAAC realated data Qualitative Matrices $(Q1)_M$ as per the requirment on or before 15/06/2019.
3) The Institutional Information for Quality Assessment

(IIQA) is required to be submitted in April 2020.

4) The revised Quality Benchmarks will be prepared by NAAC coordinator on or before 20/05/2019.

Proposed by :- Dr. P.S. Kadare

Seconded by: Dr. P.M. Pawar.

Item No. 5

Resolution No. 5.

About Review of R & D consultancy and Extension activities.

The review about R & D consultancy and extension activities was taken in the meeting, the few notable points are as follows:

1) Three departments Viz. Mechanical Engineering, Electronics and Telecommunication Engineering, and Computer science and Engineering have worked on sponsored projects from MASSIA in association with GIZ Delhi. further, fifteen MASSIA sponsored projects have been successfully completed by these departments.

2) This year 24 students of Electronics & Telecommuni cation 21 Students of Mechanical Engineering and 4 students of computer science and Engineering are benefitted through these sponsored projects from MASSIA in association with GIZ, Delhi.

3) Department of computer science and Engineering has consultancy of Rs. 67,767/- through conduction of online examination.

4) Department of civil Engineering has generated highest consultancy of Rs. 16,78,398/- through Material testing and third party audits of structures under Government and private sectors.

5) Department of Mechanical Engineering has consultancy of Rs. 1,53,000/- from Top Gear Industries, Satara.

6) Looking to consultancy generated by each department there is need to increase consultancy for Mechanical Engineering, Electronics & Telecommunication Engineering.

and Computer science and Engineering.

7) Brochure about R & D facilities was not up to the mark. There is need to include detailed information about each and every Machine(s)/ Equipments(s) / Apparatus(s).

Meeting took the note of the same and further resolved as follows:

1) Brochure should consist of all information including details of the each Machine(s)/ Equipments(s)/ Apparatus(s), applications of each machine, scope in academics, etc. regarding R & D facilities at our SVERI be prepared by Dean R & D up to 31/05/2019.

2) HODs should commercialize minimum one product per year

Proposed by: Mr. S.M. Bagal

Seconded by: Prof. Ms. M.M. Bhore

Item No. 6

Resolution No. 6

About Infrastructure and learning resources.

Following was brought to the notice of the Meeting:

1> The available infrastructure and learning resources including class rooms, laboratories library, computer centre and newly added facilities etc. is as per the details given below:

| Sr. No. | Parameters | Description | Available |
|---|---|---|---|
| 1 | Class Rooms | i) Sufficient number of class rooms | 31 |
| | | ii) Number of smart class rooms | One per department |
| 2 | Laboratories | i) Sufficient number of laboratories | 39 Labs |
| | | ii) Sufficient number of equipment / kits | Yes |
| | | iii) Number of labs added | No |
| | | iv) Equipment added to the laboratories | Yes |
| | | v) Maintenance of labs | Before start of each semester |
| 3 | Library | i) Sufficient number of books | Yes |
| | | ii) Availability of e-journals | Yes |
| | | iii) Computerization of Library | Yes |
| 4 | Computer Centre | i) Availability of Centre | Yes |
| | | ii) Number of PCs | 60 |
| | | iii) Internet Connectivity available | 1024 Mbps |
| 5 | Facilities added | i) Number new facilities added in the campus | New building |
| | | ii) Expenditure on development of new facilities | ---- |

2. The details of Library Services are as follows:

| Particulars | Existing | | Newly added in | | Total | |
|---|---|---|---|---|---|---|
| | No. of copies | Amount in Rs. | No. of copies | Amount in Rs. | No. of copies | Amount in Rs. |
| Text Books | 55850 | 23324970 | 2075 | 667708 | 57925 | 23992678 |
| Reference Books | 838 | 2139644 | 67 | 92066 | 905 | 2231710 |
| E-Books | 857 | downloaded | 0 | 0 | 857 | 0 |
| Journals | 148 | 347001 | Renewal | 289374 | 148 | 636375 |
| E-Journals | 473 | 1432635 | 299 | 1266003 | 772 | 2698638 |
| Digital database: **DELNET** | 1 Year Subscri. | 13970 | 1 year | 13671 | 1 Year | 13671 |
| CD & Video | 1794 | 368210 | 0 | 0 | 1794 | 368210 |
| Others (specify) NPTEL Local Guru | 0 | 0 | 1 Life Time | 59000 | 1 | 59000 |
| Digital Library | 22 | 491250 | 09 | 183000 | 31 | 674250 |
| Reprography machines | 6 machines | 1056750 | 0 | 0 | 6 | 1056750 |
| Competitive exam. Study section Books | 906 Books | 239247 | 225 | 109840 | 1131 | 349087 |

Meeting took the note of the same and further resolved as follows:

1) Writing Tablet (WACOM TABLET) one per department be purchased.
2) Video recording camera be purchased one per department additionally to record lectures videos.
3) Noise Cancellation Headphones With MIC one per department be purchased.

Proposed by: Prof. Mrs. R. N. Misal
Seconded by: Dr. N. D. Karande

Item No 7 About Innovations & Best Practices.

Resolution No 7 It was brought to the notice of the meeting that we are implementing few best practices including Earn & Learn Scheme, PPPE. Proctor System etc.

1) ~~Best practices~~ meeting took the note

of the above and further resolved as follows:

1) Best practices should include one intellectual and one infrastructure related aspect.
2) Best practices shall include project based learning and exposure of R & D activities in the institute to UG students.
3) Ideas about best practicesbe collected from all faculty Members.
4) Each department should arrange / conduct Guest Visit / related program for staff members and students to address societal issue(s) in the nerby village (s).

proposed by: Dr. A. A. Utpat
Seconded by: Dr. S. A. Lendave.

Item No. 8 Issue with the permission of the Chair.

Item No. 8(1) About Vision, Mission, PEOs and PSOs Statments of Electrical Engineering Department.

Resolved No. 8(1) Vision, Mission, PEOs and PSOs statments of Electrical Engineering Department were put before the meeting and are as follows:.

Vision :-

To be nationally recognized for excellence in education, powered with research in the field of Electrical Engineering.

Mission :-

To impart value added technical education through promoting research, innovation, and entrepreneurship by emphasizing on the culture of respect and social awareness amongst the stakeholders.

PEOs ( Programme Educational objective)

1) Function successfully in professional environment by synthesizing and providing economically feasible and socially acceptable

solution in the field of Electrical Engineering and allied branches.

2) Demonstrate strong leadership, communication skills and ability to work effectively as an individual in multidisciplinary teams.

3) Engage in enrichment of knowledge and skills through lifelong learning to evolve innovative solutions in electrical engineering.

4) Demonstrate a sense of ethical and societal responsibilities in professional career.

PSOs (Programme specific outcomes)

1) Design a system, develop models and conduct experiments to analyze and interpret the data in the area of power sector, renewable energy, drives, control, etc.

2) Apply knowledge of Electrical Engineering to meet the desired needs within realistic constraints viz. economical, societal, ethical, environmental, health and safety.

3) Use the techniques and skills in modern engineering tools for electrical Engineering.

Meeting took the note of the same and recommended the same to put before the Board of Governors for its approval.

proposed by: Dr P. M. Pawar.
Seconded by: Mr. S. R. Gavali'

Item No. 8(2) Resolution No. 8(2)

About Contribution of Students in Societal Activities.

following was brought to the notice of the Meeting:-

1) Our Students visiting villages for Societal work under NSS activities every year.

2) Our students visiting villages for Tree plantation under our Green Team and Swachh Bharat Abhiyan.

3) Our students participating in various like Distribution of water and Maintaining cleanliness at various Places in Pandharpur city during Ashadhi Wari Festival. Further, our students helping Police Department in maintaining Proper discipline of Pilgrims.

Meeting took the note of the above and further resolved as follows:

1) Every student should spend at least one day in any village for societal work as an application of technical knowledge.
2) Every student should participate in at least one activity in the tenure of four-year program.

Proposed by : Mr. K. B. Patil
Seconded by : Mr. S. M. Bagal

Item No. 8(3) About students participation in Conferences / Project Exhibitions outside Maharashtra.

Resolution No. 8 (3) Following was brought to the notice of the Meeting :

1) A review has been taken related to the students participation in Conferences / Project Exhibitions outside Maharashtra
2) 53 students have participated in Conferences outside Maharashtra.

Meeting took the note of the same and unanimously resolved that student's participation be increased with respect to technical events such as International Conferences, National Conferences, Project Exhibitions, etc.

Proposed by : Mr. Akshay G. Kore
Seconded by : Prof. C. B. Nadagouda.

Item No. 8(4) About involvement of MBA students for Marketing.

Resolution No. 8(A) It was brought to the notice of the Meeting

| | |
|---|---|
| | that our MBA students have successfully organized Trade Expo Event 2019. Looking to MBA student's involvement in such event, the issue of enhancing Marketing skills of MBA students was put before the Meeting. Thorough discussion was made and it was unanimously resolved that the MBA students are required to be involved for Marketing to enhance their Marketing skills. Proposed by :- Dr. N.B. Pawar Seconded by : Dr. R. R. Gidde. |
| Item No. 8(5) | About challenging assignments for advanced learners. |
| Resolution No. 8(5) | Following was brought to the notice of the Meeting: 1) Our students have been writing assisiments in line with University curriculam. 2) We have been including contents beyond the syllabus for subject(s) and also conducting experiments beyond the syllabus for the concerned subject(s). In view of above points, the issue of giving challenging assisnments to advanced learners was put before the Meeting. Thorough discussion was made and it was unanimously resolved that students as an assignment / lab work. Proposed by : Prof. B. D. Garlapati. Seconded by : Dr. A. S. Vibhute. |
| Item No 8(6) | About Research and Development activities. |
| Resolution No. 8(6) | Following was brought to the notice of the Meeting: 1) Our staff members and students utilizing |

in house R & D laboratory facilities for project work.

2) In spite of availability of various R & D facility, we are lagging on product development front. In view of above, the issue of product developm and paper publication was put befor the Meeting

Thorough discussion was made and it was unanimously resolved as follows!

1) Each and every department should develop minimum 3 products per year.
2) Contibution in respect of research publication be increased.

Proposed by! Mr. A. G. Kore
Seconded by! Prof. S. Y. Salunkhe

Item No. 8(7) Resolution No. 8(7) About teaching and learning process. Following was brought to the notice of the Meeting:

1) We are effectively implementing PPPE for teaching and learning process.
2) We are inviting experts from Industries / Academics to guide our students on every Sunday during teaching period.

Thorough discussion was made and it was resolved as follows:

1) Industry participation in teaching and learning process should be increged.
2) Every faculty Member should prepare video lecture of two hours and upload it on You Tube on or before 30/06/2019.
3) HODs should ensure that minimum two subjects per class per semester must have recorded video lectures.

Proposed by! Dr. P. M. Pawar
Seconded by! Prof C. B. Nadagouda

Coordinator
Internal Quality Assurance Cell (IQAC)
College of Engineering, Pandharpur

PRINCIPAL
College of Engineering,
PANDHARPUR

The Meeting of Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on Sunday, 18/08/2019 at 02.00 PM in the Institute Premises.

Following members were present for the Meeting

| Sr. No. | Name | Sign. |
|---|---|---|
| 1 | Mr. S. M. Shinde | |
| 2. | Mr. S. M. Bagal | |
| 3. | Mr. R. G. Zarkar | |
| 4. | Dr. S. A. Lendave | |
| 5 | Mr. M. S. Mategaonkar | |
| 6. | Dr. S. S. Wangikar | |
| 7. | Mrs. R. N. Misal | |
| 8. | M. M. Bhore | |
| 9. | Dr. P. S. Kachare | |
| 10. | Dr. Prashant M. Pawar | |
| 11 | B. D. Gaikwad | |
| 12 | S. B. Salunkhe | |
| 13 | P. G. Gaikwad | |
| 14 | Dr. Bhuvaneshwari. C. M | |
| 15 | Dr. A. S. Vibhute | |
| 16 | D. A. Tamboli | |
| 17 | Abhay Utpat | |
| 18 | Avinash. A. mote | |
| 19. | Digambar T. Kokil | |
| 20. | Karan B. Patil | |
| 21 | C. B. Nadagouda | |
| 22. | Samudragupta Talukdar | |
| 23. | Dr. S. A. Sonawane | |
| 24 | B. P. Range | |
| 25 | I. B. Gaikwad | |
| 26. | Dr. R. R. Gidde | |
| 27. | A. G. Kore | |
| 28 | P. D. Dr. N. B. PAWAR | |

All the present were welcomed by principal, SVERI's College of Engineering, Pandharpur and Chairman of Internal Quality Assurance Cell Dr. B. P. Ronge

Following business was transacted.

Item No 1 Resolution No. 1

Confirmation of the minutes of the last Meeting.

The minutes of the last Meeting held on 27/04/2019 were read and unanimously confirmed.

Proposed by: Dr. R. R. Gidde

Seconded by: Mr. Samudragupta Talukdar

Item No. 2 Resolution No. 2

About Submission of AQAR for A.Y. 2018-19.

Following was brought to the notice of the Meeting:

1) NAAC re-accreditation application is due in April 2020.
2) Last date for Submission of AQAR for A.Y. 2018-19 is 31/12/2019.

Thorough discussion was made and it was resolved unanimously as follows:

1) Draft copy of AQAR for the A.Y. 2018-19 should be made ready on or before 30th September 2019.
2) AQAR for the A.Y. 2018-19 should be put before next IQAC Meeting copy of scheduled in November 2019.

Proposed by: Dr. A.S. Vibhute

Seconded by: Dr. A.A. Utpat.

Item No 3 Resolution No. 3

About NAAC preparation for 2nd cycle.

Review of NAAC preparation in respect of different criteria was taken in the Meeting:

1) The process of Filling data Quantitative Matrices (On)n and

and Qualitative Matrices (QI)M is in progress.

2) Constitution of Institution's Innovation Council (ICC).

3) Filing the patents by faculty members.

Thorough discussion was made and it was resolved unanimously as follows:

1) Quantitative Matrices (QN)M and Qualitative Matrices (QI)M data be Modified as per the suggestions given by Members of IQAC.

2) All HODs and Deans should ensure the correctness of data in respect of Quantitative Matrices (QN)M and Qualitative Matrices (QI)M.

3) Under ICC, various activities for both faculty members and students required to be conducted to encourage innovation and entrepreneurship.

4) FDP on IPR filing and its implications be arranged on or before 31st Dec, 2019.

5) HODs should arrange minimum one extension activity per semester.

Proposed by: Dr. S.B. Sulumkhe
Seconded by: Dr. S.A. Lendave

Item No.4 About Curricular Aspects (NAAC Criteria I)

Resolution No.4 Review of NAAC Criteria-I in respect of key Indicators such as curricular planning & implementation, academic flexibility, curriculum enrichment and feedback system was put before the meeting.

Thorough discussion was made and it was unanimously as follows:

1) Criterion Coordinator should modify the data by incorporating suggestions

given by IQAC Members.

2) Criterion Coordinator should refer standard operating Procedure (SOP) for documentation.

Proposed by: Dr P.S. Kachare
Seconded by: Dr M.B. Mehtre

Item No 5 About Teaching - Learning & Evaluation (NAAC criteria II)

Resolution No. 5: Review of NAAC criterion - II in respect of key indicators such as student enrollment and profile, referring to student diversity, teaching - learning process, teacher profile and quality, evaluation process & reforms, student performance & learning outcome and students satisfaction survey was put before the meeting.

Thorough discussion was made and it was resolved unanimously that criterion Coordinator should maintain documents as per standard operating procedure (SOP).

Proposed by: Prof. A.D. Gaikwad
Seconded by: Dr. P.S. Kachare

Item No. 6 About Student Support & Progression (NAAC Criteria V)

Resolution No. 6 Review of NAAC criteria-V in respect of key indicators such as student support, student progression, student participation & activities, alumni engagement was put before the Meeting.

Thorough discussion was made and it was resolved unanimously that criterion Coordinator should maintain documents in consultation with Dean Students' as per standard operating procedure (SOP).

Proposed by: Prof. S.M. Shinde
Seconded by: Prof M.M. Bhore

| | |
|---|---|
| Item No 7 | About NPTEL Courses. |
| Resolution No 7 | The status of enrollment of Faculty Members and students for various NPTEL courses was put before the Meeting.<br>Meeting took the note of the same and it was resolved unanimously as follows:<br>1) Meeting has appreciated the enrollment of students for NPTEL courses.<br>2) Every Faculty member should register (for examination) for at least one course (Preferably 8 week or 12 weeks)<br>Proposed by: Dr. P M. Pawar<br>Seconded by: Mr. S. Talukdar |
| Item No. 8 | About Innovative practices. |
| Resolution No. 8 | Various Innovative practices such as use of Models & charts, MOODLE, Virtual laboratories, In house & sponsored projects etc, were discussed during the Meeting.<br>Meeting took note of the same and further resolved unanimously as follows:<br>1) All the Faculty members have to record video lectures and upload it on SVERI Tube / Youtube.<br>2) HODs should ensure about Sr. no. 1 as above.<br>3) Guest / Expert lectures by Industry persons be arranged to give exposure about practical applications of theoretical concepts in the curriculum.<br>4) User-Friendly instruction manuals be prepared related to different softwares available in respective |

departments (apart from curriculam) for the use of students.

proposed by : Dr. P.M. Pawar
Seconded by : Prof. C.B. Nadagouda

Item No 9 Issus with the permission of the chair.

Item No. 9(1) About arranging seminars / workshops.

Resolution No. 9(1) It was brought to the notice of the Meeting that improving teaching-learning process, there is need to organize Seminar (s) and/or Workshop (s). Hence, Issue of organizing seminars and Workshops is put before the Meeting.

Thorough discussion was made and it was resolved unanimously that one-day Workshop related to quality in teaching -learning process is required to be organized in this semester in order to boost quality initiatives from faculty members in teaching learning processs.

proposed by: Dr. A. A. Utpat
Seconded by : Dr. Mrs. D.A. Tambole

Coordinator
Internal Quality Assurance Cell (IQAC)

PRINCIPAL,
College of Engineering,
PANDHARPUR.

The Meeting of Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on Thursday, 21/11/2015 at 11.00 am in the Institute premises.

Following Members were present for the Meeting.

| Sr.No. | Name | Sign. |
|---|---|---|
| 1. | Dr. A. S. Vibhute | |
| 2 | Dr M. K Rawl | |
| 3. | Dr. S. A. Sonawane | |
| 4. | Mr S. M. Bagal | |
| 5. | M.Es. R. N. Misal | |
| 6 | Dr. S. R. Patil | |
| 7. | Dr. S. A. Lendave | |
| 8. | Mr. M. S. Mahapatra | |
| 9. | Mr. S. S. Bidwai | |
| 10. | Mr. D. T. Kashid | |
| 11 | Mr. P. G. Gaikwad | |
| 12 | Mr. R. D. Solage | |
| 13. | Mr. C. K. Khare | |
| 14. | Mr. R. D. Kulkarni | |
| 15. | Mr Y. B. Patel | |
| 16 | Mr. S. A. Inamdar | |
| 17 | Mrs V. D. Jadhav | |
| 18 | Dr. Mrs. D. A. Tambekar | |
| 19. | Dr. Prashant M. Pawar | |
| 20 | Mr. Akinday Shravan kumar | |
| 21 | Prin. Dr. N. B. PAWAR | |
| 22 | Prof. C. B. Nadagouda | |
| 23 | J. B. Gaikwad. | |
| 24 | Abhay A Utpat | |
| 25 | Avtosh M. Dyadde | |
| 26 | B. P. Ranje | |
| 27 | R. R. Gidde | |
| 28 | S. M. Shinde | |
| 29 | P. S. Kadhare | |

All the present were welcomed by Principal, SVERI's College of Engineering, Pandharpur and Chairman of Internal Quality Assurance Cell Dr. B. P. Ronge.

Following business was transacted:

**Item No. 1** **Confirmation of the minutes of the meeting held on 18/08/2019**

**Resolution No. 1** The minutes of the last meeting held on 18/08/2019 were read and confirmed unanimously.

Proposed by: Dr. R. R. Gidde
Seconded by: Dr. N. B. Pawar

**Item No. 2** **About approval of AQAR for A.Y. 2018-19**

**Resolution No. 2** The AQAR for A.Y. 2018-19 was put before the meeting.

Meeting took note of the same and accorded its approval for AQAR for A.Y. 2018-19.

Proposed by: Dr. A. S. Vibhute
Seconded by: Dr. A. A. Utpat

**Item No. 3** **About academic plan for Sem.-II of A.Y. 2019-20**

**Resolution No. 3** The review of academic plan for Semester-II in respect of teaching load distribution, industrial visits, technical and non-technical activities was taken in the meeting.

Meeting took note of the same and approved.

Proposed by: Dr. P. M. Pawar
Seconded by: Dr. S. A. Lendave

**Item No. 4** **About action taken report on Academic and Administrative Audit (AAA) for A.Y. 2018-19**

**Resolution No. 4** Action taken reports on Academic and Administrative Audit (AAA) for A.Y. 2018-19 for four department's viz. Mechanical Engineering, Civil Engineering, Computer Science and Engineering and Electronics and Telecommunication Engineering were put before the meeting.

Thorough discussion was made and it was resolved unanimously as follows:

1) HODs should ensure corrective actions in respect of suggestions given by AAA Auditors.
2) HODs should aspire more number of sponsored and interdisciplinary projects.

Proposed by: Dr. P. S. Kachare
Seconded by: Dr.Mrs. B.C. Melinamath

| | |
|---|---|
| **Item No. 5** | **About planning of one-month Industrial Internship for faculty members** |
| **Resolution No. 5** | It was brought to the notice of the meeting that every department deputes two faculty members for one month industrial training per semester.<br>Thorough discussion was made and it was unanimously resolved as follows:<br>1) Faculty members those who are deputed for one month industrial training should submit report (minimum 25 pages).<br>2) Faculty members should also fetch minimum two sponsored projects from the company in which they have undergone industrial training.<br>3) Faculty members should take regular follow-up for getting placement drive of the same company at our campus.<br>Proposed by: Dr. S. A. Sonawane<br>Seconded by: Dr. R. R. Gidde |
| **Item No. 6** | **About review of placement of students and planning for training programmes** |
| **Resolution No. 6** | Review of placement of students and planning for training programmes was taken in the meeting.<br>Meeting took note of the same and appreciated efforts taken by Dr. M. K. Raul and his team.<br>Proposed by: Prof. S. M. Shinde<br>Seconded by: Dr. Mrs. D. A. Tamboli |
| **Item No. 7** | **About planning of certificate courses for students during Sem.- II of A.Y. 2019-20** |
| **Resolution No. 7** | The issue of Planning of various certificate courses for students during Sem. - II of A.Y. 2019-20 was put before the meeting.<br>The Plan for Certificate Courses for Semester-II of AY 2019-2020 for all departments is depicted in Table no. 1. |

Table no. 1

Plan for Certificate Courses for Semester II AY 2019-2020

| Name of the Department | Name of the Course | Duration of Course (In days and hours) |
|---|---|---|
| Electronics and Telecommunication Engineering | Hands on Experience on Python | 10 Days, 30Hours |
| Computer Science and Engineering | Mobile Application Development | 14 Days, 42Hours |
| Mechanical Engineering | BIW and Trims Under TATA DRE Program | 90 Days, 40Hours |
| | Solid Modeling using CATIA | 30 Days, 60Hours |
| Civil Engineering | Design of Sewerage System and Water supply system by using WaterGEMS | 16 Days, 32Hours |
| | Design of steel structure using Staad-PRO | 18 Days, 36Hours |
| | Design of RCC structure using Staad-PRO | 18 Days, 36Hours |
| Electrical Engineering | Solar Technologies and its applications OR Modeling of Electrical systems using MATLAB | 10 Days, 30Hours |
| Master of Business Administration | Digital Marketing | 15 Days, 30 Hours |

Meeting took note of the same and further resolved unanimously that minimum one certificate course per semester should be conducted by all departments. HODs should ensure documentation related to certificate courses as per Standard Operating Procedure (NAAC SOP).

Proposed by: Mr. J. B. Gaikwad

Seconded by: Dr. S. R. Patil

**Item No. 8** **About review of preparation for 2nd cycle of NAAC**

**Resolution No. 8** As institute is going to apply for 2nd cycle of NAAC, the review of documents such as Quantitative metrics ($Q_nM$) and Qualitative metrics ($Q_lM$) prepared by criterion coordinators was taken in the meeting.

Meeting took note of the same and further resolved unanimously as

follows:

1. Best practices should be identified and related documentation should be made ready on or before 31/01/2020.
2. Minimum two faculty members from each department should apply for award/recognition at State/National/International level from Government or any other recognized body.
3. Every faculty member should publish minimum one paper per semester in the UGC-CARE approved journals per semester and one book/book chapter per year as well.
4. Every faculty member should present/publish one paper per year in conference with proceedings having ISBN number.
5. HODs should ensure about conduction of minimum 40 Hrs expert's lectures per class per semester.
6. HODs should arrange bridge courses from industry experts.
7. Each final year project group should publish one paper in UGC-CARE approved journal. HODs should ensure the same.

Proposed by: Dr. P. M. Pawar

Seconded by: Prof. C. B. Nadagauda

**Item No. 9** **Issues with the permission of the Chair**

**Item No. 9 (1)** **Motivating the students for research activities**

**Resolution No. 9(1)** It was brought to the notice of the meeting that in order to improve research culture amongst the students, they have to participate in national/international technical events and/or national/international conferences.

In view of above, the issue of motivating the students for research activities was put before the meeting.

Thorough discussion was made and it was resolved unanimously as follows:

1) HODs should conduct sessions for motivating the students for research activities and a report of the same should be submitted to Dean (R&D).
2) As an outcome of the above activity, HODs should ensure students participation in different technical events. HODs should present the status of students participation in such events for AY 2019-20 in next IQAC meeting.

Proposed by: Dr. P. M. Pawar

Seconded by: Dr. A. A. Utpat

**Item No. 9 (2)** **Purchase of software for checking plagiarism**

**Resolution No. 9(2)** It was brought to the notice of the meeting that in order to check plagiarism in manuscripts and avoid further related conflicts, plagiarism checking software is required to be purchased.

In view of above, the issue of purchase of software for plagiarism checking was put before the meeting.

Thorough discussion was made and it was resolved unanimously that a plagiarism checking software with additional features of grammar check should be purchased in order to boost research facilities.

Proposed by: Dr. P. S. Kachare

Seconded by: Dr. R. R. Gidde

**Item No. 9 (3)** **About linkages with local sugar mills**

**Resolution No. 9(3)** It was brought to the notice of the meeting that in order to address problems confronted by sugar mills, institute has signed MoU with M/s. Jakaraya Sugars Limited, Watwate.

Meeting took note of the same and further resolved unanimously as follows:

1) More number of activities should be conducted in collaboration with the Sugar mills.
2) Mechanical Engineering Department should form one more linkage with nearby sugar mill.

Proposed by: Dr. M. K. Raul

Seconded by: Dr. S. A. Sonawane

**Item No. 9 (4)** **About strengthening alumni interaction**

**Resolution No. 9(4)** It was brought to the notice of the meeting that the relationship with alumni is maintained through alumni interaction sessions like expert lectures, career guidance sessions, bridge courses, etc. However, there is scope to arrange more number of alumni interaction sessions.

In view of above, the issue of strengthening alumni interaction was put before the meeting.

Thorough discussion was made and it was resolved unanimously that more number of expert lectures, bridge courses & career guidance sessions should be arranged through alumni.

Proposed by: Dr. A. S. Vibhute

Seconded by: Dr. Mrs. B. C. Melinamath

| | |
|---|---|
| **Item No. 9 (5)** | **About conducting Green Audit and Energy audit** |
| **Resolution No. 9(5)** | It was brought to the notice of the meeting that green and energy audit is required to be conducted.<br>In view of above, the issue of conducting green and energy audit was put before the meeting.<br>Thorough discussion was made and it was unanimously decided that institute should conduct green and energy audit before 15th March 2020.<br>Proposed by: Dr. Mrs. D. A. Tamboli<br>Seconded by: Dr. S. A. Lendave |
| **Item No. 9 (6)** | **About perspective plan Perspective plan is designed and continuous follow up in respect of progress is being taken. ?** |
| **Resolution No. 9(6)** | It was brought to the notice of the meeting that Perspective plan was already designed and continuous follow up in respect of progress is being taken.<br>Meeting took the note of the same and further resolved unanimously that a report related to follow up in respect of progress according to perspective plan should be presented in next IQAC meeting.<br>Proposed by: Prof. K. B. Patil<br>Seconded by: Mr. R. G. Zarkar |
| **Item No. 9 (7)** | **About collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research, etc.** |
| **Resolution No. 9(7)** | It was brought to the notice of the meeting that some activities like field projects, research collaboration with other organization have been conducted. However, there is scope to conduct more number of activities in regard of collaboration/linkages for student exchange, faculty exchange, on-the-job training, etc.<br>In view of above, the issue of collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research, etc. was put before the meeting.<br>Thorough discussion was made and it was resolved unanimously as follows:<br>1) Each department should take minimum one initiative for student exchange and faculty exchange.<br>2) Each department should send few students for internship programs organized by reputed institutions/industries/any other related firms. |

3) Each department should enhance the research collaboration with other reputed institutions/industries and as an outcome of research collaboration, papers in UGC-CARE approved journals should be published.

Proposed by: Mr. S. M. Bagal
Seconded by: Prof. Ms. R. N. Misal

**Item No. 9 (8)** **About organizing more number of seminars/workshops on IPR, Methodologies in Quality teaching learning**

**Resolution No. 9(8)** It was brought to the notice of the meeting that few number of seminars/workshops on IPR, teaching learning methodologies have been conducted. However, there is scope to conduct more number of seminars/workshops on IPR, methodologies in quality teaching learning.

In view of above, the issue of organizing more number of seminars/workshops on IPR, Methodologies in Quality teaching learning was put before the meeting.

Meeting took note of the same and it was further resolved unanimously that more number of number of seminars/workshops on IPR, methodologies in Quality teaching learning should be organized.

Proposed by: Prof. S. M. Shinde
Seconded by: Prof. Ms. M. M. Bhore

**Item No. 9 (9)** **About publicizing the Institute's Expertise in specific areas**

**Resolution No. 9(9)** It was brought to the notice of the meeting that Institute's Expertise in specific areas such as micro fabrication, advanced machining facilities, characterization facilities, chain testing facility, etc. is required to be publicized.

In view of above, the issue of publicizing the Institute's Expertise in specific areas was put before the meeting.

Meeting took note of the same and further resolved unanimously that Institute's expertise in specific areas should be uploaded on institute website up to 31st January 2020.

Proposed by: Prof. A. M. Dyade
Seconded by: Prof. M. S. Mathpati

**Item No. 9 (10)** **About organizing professional development/administrative training programs for non-teaching staff**

**Resolution No. 9(10)** It was brought to the notice of the meeting that few number of professional development/administrative training programs for non-teaching staff have been conducted. However, there is scope to conduct more number of professional development/administrative training programs for non-teaching staff.

In view of above, the issue of organizing professional development /administrative training programs for non-teaching staff was put before the meeting.

Meeting took note of the same and further resolved unanimously that more number of programs should be arranged for non-teaching staff.

Proposed by: Dr. R. R. Gidde

Seconded by: Dr. M. K. Raul

**Item No. 9 (11)** **About organizing programs for promoting gender equity**

**Resolution No. 9(11)** It was brought to the notice of the meeting that few number of programs for promoting gender equity have been conducted. However, there is scope to conduct more number of programs for promoting gender equity.

In view of above, the issue of organizing programs for promoting gender equity was put before the meeting.

Meeting took note of the same and further resolved unanimously that more number of programs should be arranged related to gender and equity especially related to women empowerment, safety, etc.

Proposed by: Dr. Mrs. B.C. Melinamath

Seconded by: Dr. Mrs. D. A. Tamboli

**Item No. 9 (12)** **About organizing programs related to health and hygiene**

**Resolution No. 9(12)** It was brought to the notice of the meeting that few number of programs related to health and hygiene have been conducted. However, there is scope to conduct more number of programs related to health and hygiene.

In view of above, the issue of organizing programs related to health and hygiene was put before the meeting.

Meeting took note of the same and further resolved unanimously that

more number of programs should be arranged related to health and hygiene.

Proposed by: Dr. A. A. Utpat
Seconded by: Dr. P. M. Pawar

As there was no further issue to discuss, the meeting concluded with vote of thanks to the chair and all present.

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

****

PRINCIPAL,
College of Engineering
PANDHARPUR

The meeting of Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on 22/02/2020 at 11.00 am in the Institute Premises. Following members were present for the meeting.

| Sr. No. | Name | Sign. |
|---|---|---|
| 1. | Dr. D. A. Tamboli | |
| 2 | Mrs. R. N. Misal | |
| 3. | M. M. Bhore | |
| 4. | N. P. Kulkarni | |
| 5 | Dr. Bhuvaneshwari C A | |
| 6. | Dr. M. S. V. S. Kshirsagar | |
| 7. | Dr. S. S. Wangikar | |
| 8. | Dr. S. A. Tendave | |
| 9. | Kum B. Pawar | |
| 10. | Dr. S. A. Sonawane | |
| 11. | Mr. D. T. Kashid | |
| 12 | Dr A S Vibhute | |
| 13 | Dr. D. S. Chaudhari | |
| 14 | S. M. Bagal | |
| 15 | B. P. Range | |
| 16 | Dr. N. B. PAWAR | |
| 17 | Dr Abhay A Utpat | |
| 18 | A. A. Mote | |
| 19 | Mr. R. G. Zadkar | |
| 20 | Mr B. D. Gaikwad | |
| 21 | Prof. C. B. Nadagouda | |
| 22 | Dr. Prashant Maruti Pawar | |

All the present were welcomed by Dr. B. P. Range, Principal, SVERI's college of Engineering, Pandharpur and chairman

of Internal Quality Assurance cell.
Following business was transacted.

Item No 1 — Confirmation of the minutes of the last meeting held on 21/11/2019.

Resolution No 1 — The Minutes of the last Meeting held on 21/11/2019 were read and unanimously confirmed.

Proposed by: Dr. R. R. Gidde
Seconded by: Dr. N. B. Pawar

Item No. 2 — The review of Academic Activities of Semester-II of A.Y. 2019-2020.

Resolution No. 2 — The review of Academic Activities of semester-II for A.Y. 2019-2020 was taken in the Meeting. Meeting took note of the same and resolved unanimously that HODs should present report about academic activities conducted in their department as per the departmental academic calendar.

Proposed by: Dr. A. S. Vibhute
Seconded by: Dr. A. A. Utpat

Item No. 3 — About Review of Placement of students.

Resolution no. 3 — The review of Placement of students was taken in the Meeting. The details of placement of students for Academic year 2019-2020 as per below mentioned table was also put before the Meeting.

| Sr. no. | Academic Year | Total no. of companies visited | Total no. of students | No. of eligible students | No. of students placed | Average Salary offered | Highest Salary offered |
|---|---|---|---|---|---|---|---|
| 1 | 2019-20 | 60 | 502 | 370 | 380 | 3.33 | 12 |

Meeting took note of the above and further resolved unanimously that more efforts should be taken in order to increase the average package of the students.

Proposed by: Prof. C.B. Nadagouda
Seconded by: Dr. S.A. Londonkar

Item no 4 About Review of certificate courses for students during semester-II of A.Y. 2019-2020.

Resolution no.4 Review of certificate courses for students during semester-II of A.Y. 2019-2020 was taken during the Meeting.
Meeting took note of the same and Further resolved unanimously that HODs should ensure proper documentation related to certificate courses

Proposed by: Dr. Samundregupk Talkder
Seconded by: Dr. Mrs. B.C. Melinamath

Item no.5 About Review of Innovative Teaching Learning practices.

Resolution no. 5. Review of Innovative Teaching Learning practices was taken in the meeting. Further it was brought to the notice of the meeting the various innovative teaching learning practices as follows:

1) Google class Room
2) Flipped class Room
3) Use of GATE Tutor
4) XLS templates for solving the problems of SOMS subject.
5) AKSES RCBD software for demonstrating the concepts of Design of concrete structures subject.
6) PPTs and live examples for various templates
7) Technical quiz on quizizz.com.
8) Virtual labs, etc.

Meeting took note of the above and it was resolved unanimously that

| | |
|---|---|
| | Proposed by: Dr. P. M. Pawar<br>Seconded by: Shri. Sachidanand Kulkarni |
| Item no. 6<br>Resolution no. 6 | About Review of Research Activities.<br>Review of various research activities such as visits of scientist to our Institute, various developed such as Hybrid - E- cycle, onion planting Machine, cropping and piercing Tool and Drilling Attachment on Lathe Machine by students, Participation of students in create self employment camp and Exhibition organized by PAH Solapur University, Solapur, etc. was taken in the meeting.<br>Proposed by: Prof. S. M. Shinde<br>Seconded by: Dr. Mrs. D. A. Tamboli |
| Item no. 7 | About collaborative quality initiatives with other Institution(s). |
| Resolution No. 7 | It was brought to the notice of the meeting that collaborative quality initiatives with other Institution(s) are essential for the mutual benefit of both the organizations.<br>Thorough discussion was made and it was resolved unanimously that HODs should enhance collaborative initiatives through expert lectures, project work, collaborative research work, etc.<br>Proposed by: Mr. I. B. Gaikwad<br>Seconded by: Prof. A. A. Mote |
| Item no. 8 | About Organizing programs for Gender sensitization, Health & Hygiene. |
| Resolution no. 8 | Following was brought to the notice of the meeting:<br>1) "A talk on Women Empowerment" was organized on 03/01/2020. |

2) "HIV/AIDS Awareness program" was conducted on 20/01/2020 for creating awareness about HIV/AIDS.

Meeting took note of the above and expressed satisfaction for the same.

Proposed by: Dr. A. A. Utpat

Seconded by: Dr. R. R. Gidde

Item no.9 About Review of preparation for 2nd Cycle of NAAC.

Resolution no.9 The review of criteria wise work completion was taken in the meeting. The details are as given below:

Table 2: Summary of criteria wise percentage work completion.

| Cr. | Details | QnM Status | | QlM Status | | Remark |
|---|---|---|---|---|---|---|
| | | As on 21-Nov.-2019 | As on today | As on 21-Nov.-2019 | As on today | |
| I | Curricular Aspects | 70 | 80 | 70 | 80 | Will be ready by 30th March 2020 |
| II | Teaching-Learning and Evaluation | 70 | 80 | 60 | 75 | |
| III | Research, Innovations and Extension | 75 | 80 | 65 | 80 | |
| IV | Infrastructure and Learning Resources | 65 | 85 | 65 | 80 | |
| V | Student Support and Progression | 70 | 75 | 70 | 80 | |
| VI | Governance, Leadership and Management | 65 | 70 | 40 | 60 | |
| VII | Institutional Values and Best Practices | 70 | 75 | 70 | 80 | |

The meeting took note of the above and expressed satisfaction on progress of work till date and further, it was unanimously recommended to complete the remaining work by 15/04/2020.

Proposed by : Dr. N. B. Pawar
Seconded by : Prof. C. B. Nadagouda.

Item no 10 Issues with the permission of the chair.

There being no further issue to discuss, the meeting was concluded with vote of thanks to the chair and all present.

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

PRINCIPAL,
College of Engineering,
PANDHARPUR.

COLLEGE OF ENGINEERING
PANDHARPUR

# SVERI'S COLLEGE OF ENGINEERING, PANDHARPUR

## Minutes of Meeting: Internal Quality Assurance Cell (IQAC)

The Meeting of Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on Saturday, 27/06/2020 at 11:00 am through Video Conferencing (https://meet.google.com/kqy-tyrk-iwz).

The following members/Invitees were present for the meeting.

| Sr.No. | Name | Designation |
|---|---|---|
| 1. | Dr. B. P. Ronge | Chairman |
| 2. | Dr. N. B. Pawar | Member |
| 3. | Mr. Sachidanand Ramrao Kulkarni | Member |
| 4. | Mr. Samundragupta Talukdar | Member |
| 5. | Shri. Jalindar Bajirao Gaikwad | Member |
| 6. | Dr. P. M. Pawar | Member |
| 7. | Prof. S. R. Gavali | Member |
| 8. | Dr. A. A. Utpat | Member |
| 9. | Dr. D. S. Chaudhari | Member |
| 10. | Prof. A. A. Mote | Member |
| 11. | Dr. A. S. Vibhute | Member |
| 12. | Dr. Mrs. B. C. Melinamath | Member |
| 13. | Dr. Mrs. D. A. Tamboli | Member |
| 14. | Dr. S. A. Lendave | Member |
| 15. | Prof. K. B. Patil | Member |
| 16. | Mr. R. G. Zarkar | Member |
| 17. | Mr. S. M. Bagal | Member |
| 18. | Prof. B. D. Gaikwad | Member |
| 19. | Prof. S. M. Shinde | Member |
| 20. | Prof. Ms. M. M. Bhore | Member |
| 21. | Prof. A. M. Dyade | Member |
| 22. | Prof. M. S. Mathpati | Member |
| 23. | Prof. R. D. Solage | Member |
| 24. | Prof. M. M. Pawar | Invitee |
| 25. | Dr. R. R. Gidde | Invitee |
| 26. | Dr. S. A. Sonawane | Invitee |
| 27. | Dr. Ms. V. S. Kshirsagar | Invitee |
| 28. | Prof. S. D. Bhosale | Invitee |
| 29. | Prof. Ms. V. D. Jadhav | Invitee |
| 30. | Prof. D. T. Kashid | Invitee |
| 31. | Prof. Mrs. N. P. Kulkarni | Invitee |
| 32. | Prof. S. A. Inamdar | Invitee |
| 33. | Prof. S. Y. Salukhe | Invitee |
| 34. | Prof. P. G. Gaikwad | Invitee |
| 35. | Prof. Pratik Kurzekar | Invitee |

Prof. C. B. Nadagouda had communicated his inability to attend the meeting through email dated 24/06/2020. Meeting took the note of the same and accorded its approval for his absence.

All present were welcomed by Dr. B. P. Ronge, Principal, SVERI's College of Engineering, Pandharpur and Chairman of Internal Quality Assurance Cell.

Following business was transacted during the meeting.

**Item No. 1** **Confirmation of the minutes of the last meeting held on 22/02/2020**

**Resolution No. 1** The minutes of the last meeting held on 22/02/2020 were read and unanimously confirmed with the modifications.

a) Resolution No. 2 for Item No. 2 be read as " the review of academic activities of Semester-II for A.Y.2019-2020 was taken in the meeting and it was unanimously resolved that HODs should prepare the Departmental Academic Calendar of their respective department every year and include all the departmental activities to be conducted during that year."

b) Resolution No. 3 for Item No. 3 be read as "Meeting took note of the above summary of placement of A.Y.2019-2020 and further resolved unanimously that more efforts should be taken by Dean TPII & his team to increase the average package of the students."

Proposed by: Mr. S. R. Kulkarni
Seconded by: Dr. N. B. Pawar

**Item No. 2** **About Planning of Academic Activities Semester-I of A.Y.2020-2021.**

**Resolution No. 2** All HODs had presented the departmental activities of Semester-I of A.Y. 2020-2021 to the meeting along with the their first draft of Departmental Academic Calendar for the A.Y. 2020-2021.

Meeting took note of the same and felt satisfaction and further resolved to continue the practice of preparing Departmental Academic Calendar every year and also informed HODs to submit the final draft of Departmental Academic Calendar of their department on or before 15/07/2020 to Dean Administration.

Proposed by: Mr. Samundragupta Talukdar
Seconded by: Dr. A. A. Utpat

**Item No. 3** **About Criteria wise Work Completion Status for NAAC.**

**Resolution No. 3** The Criteria wise preparation & process of work completion in respect of 2nd Cycle of NAAC Accreditation was presented to the meeting. All criteria's average work completion is up to 80%.

It has been also brought to the notice of the meeting that due to COVID-19 situation the validity of NAAC Accreditation & date of submission of Institutional Information for Quality Assessment (IIQA) of Institute have been extended by six months.

Meeting took note of the same and unanimously resolved to accelerate Criteria wise work of 2nd Cycle of NAAC and complete the remaining work on or before 15/07/2020.

Proposed by: Dr. N. B. Pawar
Seconded by: Dr. P. M. Pawar

**Item No. 4 Issues with the permission of the Chair**

**Item No. 4(1) About Collaborative initiatives with Organizations/Industries**

It was brought to the notice of the meeting that to enhance quality in research and enhance industry institute interaction Collaborative initiatives with Organizations/Industries are essential.

It was also brought to the notice of the meeting that we are having 44 MoUs with different academic Organizations & Industries.

Thorough discussion was made and it was unanimously resolved as follows:

1) Department should arrange expert lectures from the institutes/industries having MoUs with us.
2) Faculty members should do joint research with the people from other institutes/industries having MoUs with us and publish jointly research papers in the conferences/journals.

Proposed by: Dr. N. B. Pawar
Seconded by: Mr. Samundragupta Talukdar

There being no further issue to discuss, the meeting concluded with vote of thanks to the chair and all present.

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Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering
Pandharpur

COLLEGE OF ENGINEERING PANDHARPUR

PRINCIPAL,
College of Engineering,
PANDHARPUR.

# SVERI'S COLLEGE OF ENGINEERING, PANDHARPUR

## Minutes of Meeting: Internal Quality Assurance Cell (IQAC)

The Meeting of Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on Sunday, 06/09/2020 at 11:00 am through Video Conferencing (https:// meet.google.com/bfo-gkiv-bic).

The following members/Invitees were present for the meeting.

| Sr.No. | Name | Designation |
|---|---|---|
| 1. | Dr. B. P. Ronge | Chairman |
| 2. | Dr. N. B. Pawar | Member |
| 3. | Mr. C. B. Nadagouda | Member |
| 4. | Shri. Jalindar Bajirao Gaikwad | Member |
| 5. | Dr. P. M. Pawar | Member |
| 6. | Prof. S. R. Gavali | Member |
| 7. | Dr. A. A. Utpat | Member |
| 8. | Dr. D. S. Chaudhari | Member |
| 9. | Dr. S. B. Salunkhe | Member |
| 10. | Prof. A. A. Mote | Member |
| 11. | Dr. A. S. Vibhute | Member |
| 12. | Dr. S. A. Lendave | Member |
| 13. | Prof. K. B. Patil | Member |
| 14. | Mr. R. G. Zarkar | Member |
| 15. | Mr. S. M. Bagal | Member |
| 16. | Prof. B. D. Gaikwad | Member |
| 17. | Prof. S. M. Shinde | Member |
| 18. | Prof. Ms. M. M. Bhore | Member |
| 19. | Prof. A. M. Dyade | Member |
| 20. | Prof. M. S. Mathpati | Member |
| 21. | Prof. R. D. Solage | Member |
| 22. | Dr. S. S. Wangikar | Member Secretary |
| 23. | Mr. S. B. Ronge | Invitee |
| 24. | Mr. M. M. Pawar | Invitee |
| 25. | Dr. S. A. Sonawane | Invitee |
| 26. | Dr. Ms. V. S. Kshirsagar | Invitee |
| 27. | Prof. Ms. V. D. Jadhav | Invitee |
| 28. | Prof. S. D. Bhosale | Invitee |
| 29. | Prof. P. G. Gaikwad | Invitee |
| 30. | Prof. D. D. Daphale | Invitee |
| 31. | Prof. D. T. Kashid | Invitee |
| 32. | Prof. Mrs. N. P. Kulkarni | Invitee |
| 33. | Prof. S. A. Inamdar | Invitee |
| 34. | Prof. S. Y. Salukhe | Invitee |
| 35. | Prof. Pratik Kurzekar | Invitee |

Mr. Samundragupta Talukdar and Mr. Sachhindanand Kulkarni had communicated their inability to attend the meeting. Meeting took the note of the same and accorded its approval for their absence.

All present were welcomed by Dr. B. P. Ronge, Principal, SVERI's College of Engineering, Pandharpur and Chairman of Internal Quality Assurance Cell.

Following business was transacted during the meeting.

| | |
|---|---|
| **Item No. 1** | **Confirmation of the minutes of the last meeting held on Saturday, 27/06/2020.** |
| **Resolution No. 1** | The minutes of the last meeting held on Saturday, 27/06/2020 were read and confirmed unanimously.<br>Proposed by: Dr. S. S. Wangikar<br>Seconded by: Dr. N. B. Pawar |
| **Item No. 2** | **About Action Taken Report on resolutions passed in the last meeting held on Saturday, 27/06/2020.** |
| **Resolution No. 2** | The Action taken on the various decisions taken by the Internal Quality Assurance Cell during its meeting held on Saturday, 27/06/2020 were put before the meeting as per the following details: |

| Item No | Resolutions/ Action Points | A respons-ebility given to | Action Taken |
|---|---|---|---|
| 1)Confirmation of the Minutes of the last meeting. | The minutes of the last meeting held on 22/02/2018 were read and unanimously confirmed with the modifications.<br>a) Resolution No. 2 for Item No. 2 be read as " the review of academic activities of Semester-II for A.Y.2019-2020 was taken in the meeting and it was unanimously resolved that HODs should prepare the Departmental Academic Calendar of their respective department every year and include all the departmental activities to be conducted during that year." | **All HODs** | All departments have prepared Departmental Academic Calendars of their respective department & its Implementation is started. |
| | b) Resolution No. 3 for Item No. 3 be read as "Meeting took note of the above summary of placement of A.Y.2019-2020 and further resolved unanimously that more efforts should be taken by Dean TPII & his team to increase the average package of the students. | **Dean TPII** | Dean TPII and his team are taking efforts to increase in average package. |
| 2) About Planning of Academic Activities of Semester-I of A.Y.2020-2021. | Meeting took note of the same and felt satisfaction and further resolved to continue the practice of preparing Departmental Academic Calendar every year and also informed HODs to submit the final draft of Departmental Academic Calendar of their department on or before | **All HODs** | **Dean Admin:**<br>All departments except F.Y.B.Tech. have prepared academic calendar & submitted in time.<br>**Mech.:** Prepared and submitted.<br>**E&TC:** Prepared and submitted. |

| | | | |
|---|---|---|---|
| | 15/07/2020 to Dean Administration. | | **CSE:** Prepared and submitted.<br><br>**Civil:** Prepared and submitted.<br>**Elect:** Prepared and submitted.<br>**F.Y.B.Tech.:** A draft copy of departmental calendar is ready but it needs further more modifications as the Admission process schedule is not yet declared.<br>**M.B.A.:** Prepared and submitted. |
| 3) About Criteria wise Work Completion Status for NAAC. | Meeting took note of the same and unanimously resolved to accelerate Criteria wise work of 2nd Cycle of NAAC and complete the remaining work on or before 15/07/2020. | **Overall NAAC Coordinator** | 1) IIQA report is ready in all respect.<br>2) Average work completion for all criteria is @ 90%.<br>3) Updated Notifications from NAAC were studied. |
| 4) Issues with the permission of the Chair.<br>4) (1) About Collaborative initiatives with Organizations/ Industries | Thorough discussion was made and it was unanimously resolved as follows:<br>1) Department should arrange expert lectures from the institutes/industries having MoUs with us. | **All HODs** | No. of expert lectures arranged from the institutes/industries having MoUs with us for the A.Y. 2020-21 till date are given below:<br>**Sr. No. / Dept. / No.**<br>1. Mech. 06<br>2. E&TC 2 (15 hrs)<br>3. CSE 02<br>4. Civil 05<br>5. Elect 00<br>6. F.Y.B.Tech. 00<br>7. M.B.A 02 |
| | 2) Faculty members should do joint research with the people from other institutes/industries having MoUs with us and publish jointly research papers in the conferences/journals. | **All HODs** | Joint publication made by faculty members with institutes/industries having MoUs are as per Annexure No. 1. |

The meeting took note of the action taken report and felt satisfaction wherever the actions are completed. The committee informed the concern to take rigorous follow-up and complete the tasks as early as possible where actions related to items are in progress.

Proposed by: Prof. S. R. Gavali
Seconded by: Dr. A. A. Utpat

| | |
|---|---|
| **Item No. 3** | **About Review of preparation for 2nd Cycle of NAAC.** |
| **Resolution No. 3** | The Criteria wise preparation & process of work completion in respect of 2nd Cycle of NAAC Accreditation was presented to the meeting. All criteria's average work completion is up to 90%. Also IIQA Report is completed in all respect.<br>It has been also brought to the notice of the meeting that due to COVID-19 situation the date of submission of Institutional Information for Quality Assessment (IIQA) of Institute have been extended by three months from the Government/University notification to resume the normal academic activities by the HEI. Also updated notifications from NAAC dated 09/07/2020 in respect of Extension of validity period of accreditation (considering COVID 19 pandemic) and 10/07/2020 in respect of Academic Year 2019-2020 (Considering COVID 19 pandemic) were brought to the notice of the meeting.<br>Meeting took note of the same and unanimously resolved to complete Criteria wise work of 2nd Cycle of NAAC on or before 16/09/2020.<br>Proposed by: Dr. P. M. Pawar<br>Seconded by: Dr. N. B. Pawar |
| **Item No. 4** | **About Research & Extension Activities.** |
| **Resolution No. 4** | Dean R & D, Dr. S. B. Salunkhe had given a brief presentation to the meeting about the R & D activities, details of Proposals submitted to different funding agencies, consultancy generated, details of paper publications, patents filed, products developed in the institute etc.<br>The summary of ongoing Research, Consultancy and extension activities for the period from last meeting to 31/08/2020 is mentioned below: |

**A. Publications**

| Name of Dept. | Web of Science (SCI_ESCI_SSCI_SCIE_AHCI) | SCOPUS | UGC Care Journal | Non-UGC Care Journal | Conference | Total |
|---|---|---|---|---|---|---|
| MECH | 07 | - | - | - | - | 07 |
| CSE | - | - | 04 | - | - | 04 |
| E&TC | - | 04 | 03 | 01 | 01 | 09 |
| Civil | - | - | 01 | - | - | 01 |
| Electrical | - | - | - | - | - | 00 |
| F.Y. | - | - | - | - | - | 00 |
| **Total** | **07** | **04** | **08** | **01** | **01** | **21** |

**B. Consultancy:**

| Sr. No. | Name of Department | Amount in Rs. |
|---|---|---|
| 1) | MECH | 40,000/- |
| 2) | CSE | Nil |
| 3) | E&TC | Nil |
| 4) | Civil | 1,11,984/- |
| 5) | Electrical | Nil |
| 6) | F.Y. B.Tech | Nil |
| **Total** | | **1,51,984/-** |

## C) Funds/Research Grants Received:

| Sr. No. | Name of Proposal sanctioned | Name of funding Agency | Amount Sanctioned | Name of Principal Investigator |
|---|---|---|---|---|
| 1 | ATAL FDP: Sensor Technology (accepted) | AICTE | 93,000/- | Mr. A. A. Jadhav (E&TC) |

Also the plan of Research and Development activities as mentioned below was put before the meeting.

| Sr.No. | Activity | | MECH | CSE | E&TC | Civil | Electrical | FE | MBA |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Number PhD (Completed + | | 12 | 07 | 06 | 08 | 01 | 05 | 00 |
| 2. | SCI / SCOPUS Indexed papers | | 13 | 08 | 07 | 09 | 03 | 06 | 02 |
| 3. | Proceeding published in SCI / SCOPUS/Web | | 12 | 07 | 06 | 08 | 02 | 05 | 01 |
| 4. | UGC-Care Journals papers | | 1 / Faculty | 1 / Faculty | 1 / Faculty | 1 / Faculty | 1 / Faculty | 1 / Faculty | 1 / Faculty |
| 5. | National / International | | 1 / Faculty | 1 / Faculty | 1 / Faculty | 1 / Faculty | 1 / Faculty | 1 / Faculty | 1 / Faculty |
| 6. | No. of Book/ Book Chapter Publication | | 02 | 02 | 02 | 02 | 01 | 02 | 01 |
| 7 | Industrial Visit | S.Y. B.Tech | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| | | T.Y. B.Tech | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| | | B.E. | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| 8. | No. of Research Proposal submission count to various agencies funding | | 04 | 04 | 04 | 03 | 02 | 02 | 01 |
| 9. | Consultancy target | | 500000/- | 500000/- | 500000/- | 500000/- | 100000/- | 20000/- | - |
| 10. | Patent Registered | | 03 | 03 | 03 | 02 | 02 | 03 | 02 |
| 11. | STTP/FDP/Workshop attended | | 1 / Faculty | 1 / Faculty | 1/ Faculty | 1 / Faculty | 1 / Faculty | 1 / Faculty | 1 / Faculty |
| 12. | Product Development | | 03 | 03 | 03 | 03 | 02 | 02 | 02 |

Meeting took note of the above & appreciated efforts taken by Institute to inculcate research culture in the Institute. Also, Meeting appreciated Principal Investigator Prof. A. A. Jadhav, (E&TC Department) for receiving fund for Sensor Technology Project proposal of ATAL FDP from AICTE. Further following was resolved unanimously.

1) HODs of all departments should make additional efforts to increase the paper publications of their respective department.
2) All HODs should focus on increasing the consultancy of their department.
3) HODs should strictly implement research plan for A.Y. 2020-21 and make necessary efforts to fulfill the targets given by Dean R & D.

Proposed by: Dr. S. B. Salunkhe
Seconded by: Dr. N. B. Pawar

**Item No.5 Resolution No. 5**

**About Training & Placement Activities.**

Review was taken about the ongoing Training & Placement Activities of A.Y.2020-2021. The details of the same are mentioned as below:

| Sr.No | Head | Status/Remark |
|---|---|---|
| 1 | Academic Year | 2020-21 |
| 2 | Campus drives till today | 1. Capegmini-3.8 lakh/annum<br>2. Delta X - 4 lakh/annum<br>3. Hexaware - 3.5 lakh/annum<br>4. Persistent - 4.41,5.41.6.41 lakh/annum |
| 3 | Upcoming Campus Drives | 1. TCS<br>2. Infosys<br>3. Tech Mahindra |
| 4 | No of training sessions conducted | 20 |
| 5 | Ongoing training session | 1. Aptitude Training- All Dept. Final Year.<br>2. Rubycon Softskill Training- Mech, MBA<br>3. Programming Language Training- Final Year<br>4. GATE Training - All Final Year (Except MBA) |

Meeting took note of the above activities and felt satisfaction also it was resolved unanimously that Dean TPII should conduct more number of training programs in respect of aptitude and should make efforts to bring more companies for the placement.

Proposed by: Prof. A. A. Mote
Seconded by: Mr. J. B. Gaikwad

**Item No.6 Resolution No. 6**

**About Institute's Innovation Council (IIC) Activities.**

It was brought to the notice of the meeting that Institute's Innovation Council (IIC) is replaced by Institution's Innovation Cell (IIC) as per the resolution 7(2) of BOG meeting dated 28/06/2020. This cell is having objectives of enhancing Research, Consultancy & Product development activities in the Institute.

Dr.Mrs. V. S. Khirsagar Coordinator of this cell elaborated the activities conducted by the cell are mentioned below:

| Sr. No. | Particulars | Date/ Period | Faculty/ Students | Remark |
|---|---|---|---|---|
| 1. | Workshop on: Industry Consultancy | 29/04/2019 to 2/05/2019 | Faculty | Total 30 faculty members participated in this workshop |
| 2. | Workshop on: Industry 4.0 | 29/04/2019 to 2/05/2019 | Faculty | Total 60 faculty members participated in this workshop |
| 3. | Workshop on Lean Canvas Business Method | 28/05/2020 | Faculty | More than 200 faculty members were present |
| 4. | Workshop on Students Rating Life skill Program | 19/06/2020 | Faculty | All Principals, All Deans and All Heads |
| 5. | Workshop on Reverse Engineering | 8th and 9th July 2020 | Faculty | More than 200 faculty members were present |

| | | | | |
|---|---|---|---|---|
| 6. | Guiding Sessions on advanced techniques in the respective area | During SEM-I of A. Y. 2019-20 | Students | Around 28 hours various sessions on advanced technologies in the engineering was conducted and in that from all second year to final year students from Mechanical Engineering, Computer Science and Engineering, Electronics and Telecommunication Engineering and Electrical Engineering are benefited through this session. |
| 7. | Project work analysis and guidance to project guides | During SEM-I and II of A. Y. 2019-20 | Faulty Members | IIC experts guided to the individual project guides of all departments. |
| 8. | Funding proposal | During SEM-I of A. Y. 2019-20 | 1. Dr. B. P. Ronge<br>2. Dr. P. S.Kelkar<br>3. Dr. S. S. Wangikar | Funding proposal on "Design, Develop, Manufacture, Installation & Commissioning with Trials of Solar Powered Single Tower Pivot Irrigating System" is sanctioned for Rs. 5 Lakh funds from PAH SUS |
| 9. | Meetings conducted | | | Until now 5IIC meetingsare conducted and as a outcome of that we have started following activities in our institute:<br>1. SVERI Consultancy cell<br>2. Reverse Engineering<br>3. Project to Product<br>4. Students Rating Life skill Program<br>Above mentioned committee have conducted average 4-5 meetings and they are working individually on the assigned task. |
| 10 | Certificate Course | | Student | 5 different certificate courses are conducted for second year students of CSE, MECH, Electrical and ENTC Department. |
| 11 | Participation in Innovation Contest conducted by MHRD's IIC | 1. Activity report of Innovation Contest: | | |

| | Idea count | POC count | Prototype Count | Nominated Prototype |
|---|---|---|---|---|
| Expected | 75 | 50 | 25 | 5 |
| Submitted | 215 | 187 | 24 | 5 |

Meeting took note of the same and appreciated the efforts made by Institute for constituting such Innovative Cell. Also following was resolved unanimously.

1) The external members should interact with faculty & students frequently and guide them for innovative products and research projects.
2) The external members should conduct STTP/workshops on the innovative topics.
3) This cell should focus on activities as per the guidelines of ARAI, NIRF ,etc .

Proposed by: Dr. S. B. Salunkhe
Seconded by: Dr. P. M. Pawar

**Item No.7** **About Plan for organinging FDPs/Workshops.**

**Resolution No. 7** It was brought to the notice of the meeting about the FDPs/ Workshops conducted in the Institute for the Teaching and Non-Teaching Staff for the A.Y. 2019-20 also the plan of FDPs/workshops to be conducted in the A.Y. 2020-21.

The details of the same is given below:

**FACULTY DEVELOPMENT PROGRAM**

**A) Conducted FDPs Current Year (2020-21)**

| Sr.No | Date | Topic | Name of Resource Person | Number of Participants |
|---|---|---|---|---|
| 01. | 10/08/2020 To 14/08/2020 | One week national level workshop on "Digital Transformation and Pedagogies" AICTE Margdarshan Scheme | Group of academicians and Industry experts. | 15 |

**B) Conducted FDPs for A.Y. 2019-20.**

| Sr.No | Date | Topic | Name of Resource Person | Number of Participants |
|---|---|---|---|---|
| 1. | 17/06/2019 to 17/07/2019 | One month "Communication Improvement Program" | Dr. D. S. Chaudhari, SVERI's College of Engineering, Pandharpur. | 100 |
| 2. | 09/07/2019 | An Interactive session on "Nirmal Wari Abhiyan" | Shri. Sandeep Jadhav, Head Nirmal Wari Abhiyan, RSS Activist | 70 |
| 3. | 25/07/2019 | A one day session on "Financial Literacy" | Mr.Sudarshan Pukale Chartered accountant, Pukale & Co., Solapur. | 96 |
| 4. | 23/08/2019 | One Day Online Workshop on "Linux" | IIT Bombay | 19 |
| 5. | 25/08/2019 | A One Day session on "Lifestyle Disorders" | Dr.Sachin Patil, Regional Medical Head Western Maharashtra, MadhavBaug | 250 |
| 6. | 27/08/2019 | A one day Interactive Session on "Innovation council" | Dr.N.B.Pasalkar, Ex-Director DTE | 146 |
| 7. | 23/09/2019 | One Day Online Workshop on "e-Sim" | IIT Bombay | 22 |
| 8. | 09/11/2019 | One Day Online Workshop on "R-Programming" | IIT Bombay | 13 |
| 9. | 26/12/2019 to 31/12/2019 | One Week FDP on " Enhancing Teaching Skills" | Prof. Sateesh Kumar S L, Bengluru | 29 |
| 10. | 03/01/2020 | A One Day Workshop on " Guidance on Academic processes under Margadarshak Scheme" | Dr.S.A.Halkude, Principal, Walchand Institute of Technology, Solapur | 39 |
| 11. | 08/02/2020 | One Day Online Workshop on "Arduino" | IIT Bombay | 17 |
| 12. | 12/02/2020 | A One Day Workshop on " Guidance on Academic processes under Margadarshak Scheme" | Dr.S.A.Halkude, Principal, Walchand Institute of Technology, Solapur | 120 |
| 13. | 08/04/2020 | Online session on "Efforts India is doing for fighting the Covid-19 pandemic" MHRD-IIC | Dr. K Vijayraghavan, Principal Scientific Advisor, Govt. of India | 125 |
| 14. | 09/04/2020 | Online session on "AICTE initiatives to help students, faculty and institutions during this crisis" | Prof. Anil D Sahashrabudhe, Chairman, AICTE | 125 |

| | | | | |
|---|---|---|---|---|
| 15. | 10/04/2020 | Online session on "National Educational Alliance for Technology – Personalized and Customized learning for employability skill enhancement and bridging learning gaps | Prof. M.P. Poonia Vice Chairman, AICTE Prof. M.P. Poonia | 100 |
| 16. | 13/04/2020 & 14/04/2020 | Online session by MHRD-AICTE under Innovation Cell: Leadership Talk Series | Padma Bhushan Dr. V K Saraswat, Member NITI Aayog, Dr. Anand Deshpande, Founding Chairman of Persistent Systems Ltd. | 100 |
| 17. | 03/05/2020 | Online session on " Positivity in the Covid Pandemic" | Mr. Shekhar Charegaonkar, President, Maharashtra State Co-Op. Council | 125 |
| 18. | 14/05/2020 | Online session on " Time Management" | Mr. Shekhar Charegaonkar, President, Maharashtra State Co-Op. Council | 120 |
| 19. | 29/05/2020 | Online session on "Masterclass On Cyber Security" | Dr. Derek Keats, Deputy Vice Chancellor University of the Witwatersrand Johannesburg, South Africa | 100 |
| 20. | 06/06/2020 | Online session on " Spirituality" | Mr. Shekhar Charegaonkar, President, Maharashtra State Co-Op. Council | 125 |
| 21. | 14/06/2020 | Online session on " Interpersonal Relations" | Mr. Shekhar Charegaonkar, President, Maharashtra State Co-Op. Council | 120 |
| 22. | 20/06/2020 | Online session on " Intellectual Property Rights" | Director, INK DÉE (India \| Singapore) Patent and Trade Mark Attorneys | 125 |
| 23. | 20/06/2020 | Online session on " Importance of GATETUTOR" | Mr.Mallikarjun Borigidde MD , Ms.Sneha Gurav, Gatetutor, Pune | 125 |
| 24. | 23/06/2020 | Online session on " How to keep Yourself Motivated" | Mr.Sudhir Mateti, Head Human Resources, Syntel | 120 |

## C) Non-Teaching conducted program for A.Y. 2019-20

| Sr.No | Date | Topic | Name of Resource Person | Number of Participants |
|---|---|---|---|---|
| 1. | 25/08/2019 | A One Day session on "Lifestyle Disorders" | Dr. Sachin Patil, Regional Medical Head Western Maharashtra, Madhav Baug | 50 |
| 2. | 03/05/2020 | Online session on " Positivity in the Covid Pandemic" | Mr. Shekhar Charegaonkar, President, Maharashtra State Co-Op. Council | 45 |
| 3. | 06/06/2020 | Online session on " Spirituality" | Mr. Shekhar Charegaonkar, President, Maharashtra State Co-Op. Council | 50 |
| **Sr.No** | **Date** | **Topic** | **Name of Resource Person** | **Number of Participants** |
| 4. | 14/05/2020 | Online session on " Time Management" | Mr. Shekhar Charegaonkar, President, Maharashtra State Co-Op. Council | 46 |

| | | | | |
|---|---|---|---|---|
| 5. | 14/06/2020 | Online session on " Interpersonal Relations" | Mr. Shekhar Charegaonkar, President, Maharashtra State Co-Op. Council | 40 |

**D) Tentative Plan for FDPs for A.Y.2020-21**

| Sr.No | Tentative dates | Duration of Program | Resource Person |
|---|---|---|---|
| 1. | July 2020 | One Day Program | Mr. Shekhar Charegaonkar |
| 2. | August 2020 | One Day Program | Dr.Yelikar, Solapur |
| 3. | September 2020 | One Day Program | Mr.Dinesh Patil |
| 4. | October 2020 | One Day Program | Mr.N.C.Gosavi , Pune |
| 5. | November 2020 | One week Program | Prof. Sadhana Ghalsasi, Pune |
| 6. | December 2020 | One week Program | Mr.P.V.Salunkhe, Solapur |

Meeting took note of the same and further resolved that

1) STTPs should be conducted for the period of minimum one week.
2) Every department should organize minimum one STTP/FDP once in a year.

Proposed by: Prof. Ms. M. M. Bhore
Seconded by: Dr. S. S. Wangikar

**Item No.8 Resolution No. 8**

**About organizing program for Students.**

It was brought to the notice of the meeting that due to COVID-19 pandemic students are not coming to the college hence regular programs are conducted in the campus in absence of students. Further it was brought to the notice of the meeting that following online programs were conducted for the students in this semester.

| Sr.No. | Name of Programs | Date | No. of Students benefited |
|---|---|---|---|
| 1) | Career Guidance Session | | All Students |
| 2) | Independence Day | 15/08/2020 | All Students |
| 3) | Teachers' Day | 05/09/2020 | All Students |

Meeting took note of the same and resolved unanimously that in addition to regular programs more focus should be given to arrange programs in respect of Health, Hygiene and Gender Equity.

Proposed by: Dr. A. A. Utpat
Seconded by: Mr. S. M. Bagal

**Item No.9 Resolution No. 9**

**About Certificate Courses.**

The review of certificate courses conducted by departments was put before the meeting. The summary of the certificate courses conducted by the departments it presented below:

**1) Mechanical Engineering Department:**

| Sr.No. | Name of Course | Class | Strength | No. of Students benefited | Name of faculty | Mode of conduction Online/Offline | Remark |
|---|---|---|---|---|---|---|---|
| 01 | Ansys | TE Mech | 16 | 16 | Dr. John Daniel | Online | |
| 02 | NX CAD | TE & BE Mech | 56 | 56 | VDS Solution Pune | Offline | |
| 03 | CATIA | SE Mech | 30 | 30 | Prof. C. K. Vhare | Offline | |

**2) Department of Electronics & Telecommunication Engineering:**

| Sr.No. | Name of Course | Class | Strength | No. of Students benefited | Name of faculty | Mode of conduction Online/Offline | Remark |
|---|---|---|---|---|---|---|---|
| 1. | Critical Thinking | SY | 130 | 130 | MR. Ramesh Advi | Offline & Online | |
| 2. | IoT | SY | 130 | 130 | Mr. Sudarshan Natu | Offline & Online | |

# Note: Please provide plan of certificate courses for AY 2020-21

| Sr.No. | Name of Course | Class | Strength | No. of Students benefited | Name of faculty | Mode of conduction Online/Offline | Remark |
|---|---|---|---|---|---|---|---|
| 1. | Linux | BE | 120 | 120 | | Online | |
| 2. | Python programming | TY | 130 | 130 | | online | |

**3) Department of Computer Science & Engineering:**

| Sr.No. | Name of Course | Class | Strength | No. of Students benefited | Name of faculty | Mode of conduction Online/Offline | Remark |
|---|---|---|---|---|---|---|---|
| 1. | IIC Certificate Innovation (IoT,ML,AI) | S.Y.B.Tech CSE- A & B | 140 | 140 | Mr.Sudharshan Natu& team | Online | |
| 2. | IIC Certificate Blockchain Technology (BCT) | S.Y.B.Tech CSE- A & B | 140 | 140 | Mr.AtulMarathe and Team | Online | Completed 30 Hrs |

Meeting took note of the and further resolved that the practice of arranging such Certificate Courses of having duration of minimum 30 hours be continued in future also.

Proposed by: Dr. A. S. Vibhute
Seconded by: Mr. R. G. Zarkar

**Item No. 10** **Issues with the permission of the Chair.**

**Item No. 10(1)** **About Corsersa Courses.**

**Resolution No. 10(1)** It was brought to the notice of the meeting that our faculty and students have completed many Coursera Courses during this semester. The detail summary of online Coursera Courses completed by faculty and students is as given below:

| Coursera Details | | |
|---|---|---|
| **Name of Dept** | **Number of faculty** | **Number of Courses Completed** |
| CSE | 31 | 196 |
| Civil | 16 | 125 |
| Electrical | 6 | 7 |
| E&TC | 26 | 191 |
| Mech | 30 | 167 |
| MBA | 7 | 34 |
| FY | 21 | 115 |
| **Total** | **137** | **835** |
| | | |
| **Overall Coursera Details** | | |
| | | |
| Number of Enrollements | 1500 | |
| No of Courses Enrolled | 15429 | |
| No of hrs completed | 28355 | |
| No. of lessons | 69044 | |

Meeting took note of the same and appreciated the efforts of Institute for providing the online Coursera Courses to the Faculty and Students free of cost . Meeting also unanimously resolved that HODs should take appropriate actions against the faculty members those have not completed the Corusera Courses as per the Institute Policy.

Proposed by: Dr. A. S. Vibhute
Seconded by: Dr. P. M. Pawar

**Item No. 10(2)** **About Prerana Scheme of AICTE.**

**Resolution No. 10(2)** It was brought to the notice of the meeting that Institute has received grant of Rs. 7,75,000/- from AICTE under Prerana Scheme for conducting communication & personality development programs for SC/ST students. In respect of this Rs.3,84,000/- was received and utilized in first year i.e. A.Y. 2019-20 for conducting communication improvement programs for SC/ST students. Accordingly, the utilization certificate for the same was sent to AICTE.

The meeting took note of the same and appreciated the efforts of Institute for bringing such innovative schemes and suggested to submit proposals responding to funding agencies for bringing such kind of schemes for our students in future also.

Proposed by: Prof. S. R. Gavali
Seconded by: Dr. P. M. Pawar

**Item No. 10(3)** **About Skill and Personality Development Program (SPDP) Centre.**

**Resolution No. 10(3)** It was brought to the notice of the meeting that Institute has been sanctioned grant of Rs. 6,64,000/- from AICTE under Skill and Personality Development Program (SPDP) Centre for developing center for conducting the programs related to personality and skill development for SC/ST students. In respect of this grant of Rs. 3,32,000/- is received as a first installment from AICTE in the month of January, 2019.

Accordingly the equipments/infrastructure required for the center are purchased and programs about skill and personality development for SC/ST students were conducted and the utilization certificate of the same was sent to AICTE for the first installment of the scheme.

The meeting took note of the same and appreciated the efforts of Institute for bringing funds for developing such centre in our Institute for developing personality and skill development for SC/ST students. Meeting also informed Prof. R. R. Gidde to arrange more number of programs for developing skill and personality of SC/ST students.

Proposed by: Mr. C. B. Nadagouda
Seconded by: Dr. N. B. Pawar

There being no further issue to discuss, the meeting concluded with vote of thanks to the chair and all present.

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Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

COLLEGE OF ENGINEERING PANDHARPUR

PRINCIPAL,
College of Engineering,
PANDHARPUR.

# SVERI's COLLEGE OF ENGINEERING, PANDHARPUR

## Minutes of Meeting: Internal Quality Assurance Cell (IQAC)

The Meeting of the Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on Sunday, 29/11/2020 at 2.00 pm through Video Conferencing (https://meet.google.com/xoo-utdm-kwe)

The following members/Invitees were present for the meeting.

| Sr.No. | Name | Designation |
|---|---|---|
| 1. | Dr. B. P. Ronge | Chairman |
| 2. | Prof. C. B. Nadagouda | Member |
| 3. | Dr. N. B. Pawar | Member |
| 4. | Mr. Samudragupta Talukdar | Member |
| 5. | Mr. J. B. Gaikwad | Member |
| 6. | Dr. P. M. Pawar | Member |
| 7. | Dr. S. B. Salunkhe | Member |
| 8. | Dr. A. A. Utpat | Member |
| 9. | Dr. D. S. Chaodhari | Member |
| 10. | Prof. S. R. Gavali | Member |
| 11. | Prof. A. A. Mote | Member |
| 12. | Dr. A. S. Vibhute | Member |
| 13. | Dr. Mrs. D. A. Tamboli | Member |
| 14. | Prof. K. B. Patil | Member |
| 15. | Dr. S. A. Lendave | Member |
| 16. | Prof. Ms. V. D. Jadhav | Member |
| 17. | Prof. B. D. Gaikwad | Member |
| 18. | Prof. R. D. Solage | Member |
| 19. | Prof. Ms. M. M. Bhore | Member |
| 20. | Prof. M. S. Mathpati | Member |
| 21. | Mr. S. M. Bagal | Member |
| 22. | Mr. R. G. Zarkar | Member |
| 23. | Dr. S. S. Wangikar | Member Secretary |
| **Invitees:** | | |
| 1. | Mr. N. S. Kagade | President, SVERI |
| 2. | Prof. M. M. Pawar | Campus In-Charge |
| 3. | Dr. V. S. Kshirsagar | Assistant Professor, Civil Engg. |

Following business was transacted during the meeting

All present were welcomed by Dr. B. P. Ronge, Principal, SVERI's College of Engineering, Pandharpur and Chairman of Internal Quality Assurance Cell (IQAC).

**Item No. 1** **Confirmation of the minutes of the last meeting.**

**Resolution No. 1** The minutes of the last meeting held on Sunday, 06/09/2020 were read and confirmed unanimously.

Proposed by: Prof. S. R. Gavali

Seconded by: Dr. N. B. Pawar

**Item No. 2** **About Action Taken Report on resolutions passed in the last meeting.**

**Resolution No. 2** The Action taken on the various decisions taken by the meeting held on Sunday, 06/09/2020 were put before the meeting as per the following details:

| Item No | Resolutions/ Action Points | A responsibility given to | Action Taken |
|---|---|---|---|
| 1) Confirmation of the Minutes of the last meeting. | The minutes of the last meeting held on 27/06/2020 were read and confirmed unanimously. | Dean Admin. | --- |
| 2) About Action Taken Report on resolutions passed in the last meeting held on Saturday, 27/06/2020. | The meeting took note of the action taken report and expressed satisfaction wherever the actions are completed. The committee informed the concern to take rigorous follow-up and complete the tasks as early as possible where actions related to items are in progress. | Dean Admin. | Tasks those were incomplete are completed in time. |
| 3) About Review of preparation for 2nd Cycle of NAAC. | Meeting took note of the same and unanimously resolved to complete Criteria wise work of 2nd Cycle of NAAC on or before 16/09/2020. | Dr. S. S. Wangikar | • 90 to 95 % work completed.<br>• Institutional Information for Quality Assessment (IIQA) is ready and submission will be started in the 1st week of December 2020. |
| 4) About Research & Extension Activities. | Meeting took note of the above & appreciated efforts taken by Institute to inculcate research culture in the Institute. Also, Meeting appreciated Principal Investigator Prof. A. A. Jadhav, (E&TC Department) for receiving fund for Sensor Technology Project proposal of ATAL FDP from AICTE. Further following was resolved unanimously.<br>1) HODs of all departments should make additional efforts to increase the paper publications of their respective department. | All HODs | **E&TC:** Faculty members are motivated to publish papers in SCI/SCOPUS/UGC care journals. No. Papers published are 12 and 21 submitted<br>**Mech.:**<br>2 papers are published in SCI indexed journals, 2 papers in WOS indexed journals, 1 in SCOPUS indexed journal, 1 in UGC-CARE listed journal, 7 papers presented in National Conference (Total – 13).<br>5 papers submitted to SCI, 14 papers to Techno-Societal 2020 Int. Conference (19 submitted).<br>**CSE:** 5 Papers published in UGC care Journals and one paper in Elsevier Journal. 25 papers submitted to techno-Societal.<br>**Elect:**<br>1. Faculty members are insisted to submit the research article in Techno-Societal 2020. (6 papers submitted).<br>2. Faculty members were motivated to submit paper in SCI/Scopus journal. (2 papers submitted)<br>**First Year:**<br>The efforts are being taken to increase the publications. Total 04 faculty members have submitted |

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|---|---|---|---|
| | | | the research papers in Techno-Societal 2020 and total six papers are submitted by F. Y. B. Tech faculty members during Sem-I of AY 2020-21 (Including 04 in Techno-societal).<br>**M.B.A.**<br>Faculty members are insisted to submit the research article in Techno-Societal 2020. (4 papers submitted). Also 2 papers are published in ISSN journals. |
| | 2) All HODs should focus on increasing the consultancy of their department. | All HODs | **E&TC:** Leaflet is prepared for Anetnna Design and testing and circulated. Enquiries are started.<br>**Mech.:**<br>In the month of Oct 2020 consultancy of amount Rs. 18858/- is generated. Also for this A.Y. 2020-21 total consultancy generated is of Rs. 1.84,128/-.<br>**CSE:**<br>Total consultancy of Rs. 1,42,935/- is generated in this A.Y. 2020-21 through conduction of MHT-CET examination.<br>**Civil:** Following efforts are taken in the department:<br>1) Made domain wise four different groups<br>2) On the occasion of Diwali festival, pamphlets to introduce the testing and consultancy services available in the Department are prepared and distributed to Government officers and private contractors, engineers, architectures, etc. for advertisement purpose.<br>3) Preparation of separate webpage to introduce the consultancy facilities available in the Department are in progress.<br>**Elect:**<br>1) Faculty are insisted to attend reverse engineering webinar to understand and develop the products.<br>2) Faculty are motivated to study published patents and choose any one patent idea to develop a product from it.<br>3) Faculty are motivated to meet industry persons to get know their problems.<br>4) Generated 30,000=00 Rs. Consultancy in last 2 months. |
| | 3) HODs should strictly implement research plan for A.Y. 2020-21 and make necessary efforts to fulfill the | All HODs | **E&TC:** Efforts are put to implement plan and will be followed to complete it as per plan.<br>**Mech.:** Continuous follow up for implementation of Research Plan is |

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| | targets given by Dean R & D. | | being taken.<br>**CSE:** Research Plan prepared for Dept. in line with targets given by Dean R &D and implementation going on.<br>**Civil:** Continuous monitoring of R&D plan is being done through departmental R&D coordinator.<br>**Elect:**<br>R&D target is being monitored through departmental R&D coordinator and review of the same is being taken in Monday meeting.<br>**First Year:**<br>Care is being taken for successfully implementing the Research Plan. During Sem-I of A.Y. 2020-21, total 06 Research papers are published by F.Y. B. Tech faculty members.<br>**M.B.A.:** Implementing |
| 5) About Training & Placement Activities. | Meeting took note of the above activities and felt satisfaction also it was resolved unanimously that Dean TPII should conduct more number of training programs in respect of aptitude and should make efforts to bring more companies for the placement. | Prof. A. A. Mote | As per directions more Aptitude Training programs are arranged such as CAPGEMINI specific Programme, TCS Specific Aptitude Programme, Regular Aptitude Sessions. In the last three months more than 100 hrs training has been given to students which has resulted into selection of 11 students from CSE and ENTC for CAPGEMINI with Package of 3.8, 1 student of CSE for Hexaware with package of 3.6 lakh and 2 students for Persistent with package of 4.51 LPA. |
| 6) About Institute's Innovation Council (IIC) Activities. | Meeting took note of the same and appreciated the efforts made by Institute for constituting such Innovative Cell. Also following was resolved unanimously.<br>1) The external members should interact with faculty & students frequently and guide them for innovative products and research projects.<br>2) The external members should conduct STTP/workshops on the innovative topics.<br>3) This cell should focus on activities as per the guidelines of ARAI, NIRF ,etc . | Dr.Mrs.V.S. Kshirsagar | 1) 5 certificate courses are conducted till July 2020. Each course was of minimum 30hrs.<br>2) Three online workshops conducted for faculty members by external members of IIC.<br>3) Coordinated three AICTE workshops for faculty members as well as students.<br>4) ARIIA prequalifying form is submitted and waiting for opening of link to submit the detailed data |

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| 7) About Plan for organinging FDPs/Worksh op. | 1) STTPs should be conducted for the period of minimum one week.<br>2) Every department should organize minimum one STTP/FDP once in a year. | All HODs | **Mech.:**<br>One Week STTP is planned in May 2021 & proposal is submitted to PAH Solapur University.<br>**E&TC:**<br>Conducted total 2 FDPs- One ATAL FDP and one FDP and one more ATAL FDP is planned in Feb 2021<br>**CSE:**<br>AICTE Sponsored STTP on "Blockchain with Devops" conducted in 2 slots for the period of one week. 3rd slot is planned<br>**Civil:**<br>Conducted during22nd to 27th June June 2020 for 5days on "Design thinking approaches in Engineering".<br>**Elect:**<br>We have planned to conduct one program on Electric Vehicle under PAHSU and accordingly proposal has to be submitted.<br>**First Year:**<br>Such programme will be arranged during Induction Program for FY B Tech Students. |
| 8) About organizing program for Students. | Meeting took note of the same and resolved unanimously that in addition to regular programs more focus should be given to arrange programs in respect of Health, Hygiene and Gender Equity. | Dean Students' | A Session on the topic "HEALTH AND HYGIENE" was conducted for students on 09/09/2020. |
| 9) About Certificate Courses. | Meeting took note of the and further resolved that the practice of arranging such Certificate Courses of minimum duration of 30 hours be continued in future also. | All HODs | **Mech.:**<br>One course is in progress and one more planned in Semester II of AY 2020-2021.<br>**E&TC:**<br>Two courses completed<br>**CSE:**<br>Completed 2 Certificate Courses on IOT and Block chain. Planned for 3rd certificate course on "Entrepreneurship Start-ups".<br>**Civil:**<br>All certificate courses we have scheduled are of software based and field work type. In this semester we failed to conduct such courses due to out breaking of Covid-19. However, we conduct minimum four Certificate courses for each student throughout their tenure of degree.<br>**Elect:**<br>Certificate course for SY & TY Electrical students planned in the month of January 2021 Based on MATLAB or SOLAR APPLICATIONS |

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| 10(1) About Corsersa Courses. | Meeting took note of the same and appreciated the efforts of Institute for providing the online Coursera Courses to the Faculty and Students free of cost . Meeting also unanimously resolved that HODs should take appropriate actions against the faculty members those have not completed the Corusera Courses as per the Institute Policy. | All HODs | **Mech.:**<br>Average 5 courses were completed by all faculty members<br>**E&TC:**<br>All faculty attended Coursera Courses with an average of 7 courses.<br>**CSE:**<br>As per our Institute Policy Every faculty had completed minimum 2 Coursera Courses.<br>**Civil:**<br>Except two faculty members all other have completed minimum two coursera courses.<br>**Elect:**<br>SY BTech: 22 and TY students:45 Students registered for coursera. All the faculties have registered for coursera course.<br>**First Year:**<br>All the faculty members concerned with FY B Tech department have successfully completed the COURSERA Courses as per the Institute Policy. |
| 10(2) About Prerana Scheme of AICTE. | The meeting took note of the same and appreciated the efforts of Institute for bringing such innovative schemes for our Institute and inform to authorities to write proposals for bringing such kind of schemes for our students in future also. | Prof. A. A. Mote | Proposals writing is in process. Already 3 proposals related to EDP are submitted to DST. |
| 10(3) About Skill and Personality Development Program (SPDP) Centre. | The meeting took note of the same and appreciated the efforts of Institute for bringing funds for developing such centre in our Institute to develop personality and skill for SC/ST students. Meeting also informed Prof. R. R. Gidde to arrange more number of programs in respect of developing skill and personality of SC/ST students in this academic year. | Dr. R. R. Gidde | Programs will be arranged as soon as the 2nd instalment of the grant is received. |

The meeting took note of the action taken report and expressed satisfaction wherever the actions are completed. The committee informed the concern to take rigorous follow-up and complete the tasks as early as possible where actions related to items are in progress.

Proposed by: Dr. S. A. Lendave

Seconded by: Mr. Samudragupta Talukdar

**Item No. 3** **About Review of activities for Semester-I of A.Y.2020-2021.**

**Resolution No. 3** Following review of academic activities conducted by department for the Semester-I of A.Y.2020-2021 was taken in the meeting.

| Name of Department | Number of Lectures Conducted (Hrs) | Number of lectures conducted for practical (Hrs) | Total Online Tests conducted | Online Guest/Expert lectures (Hrs) | Sponsored Projects | Students Activity |
|---|---|---|---|---|---|---|
| Mechanical Engineering | 1864 | 106 | 140 | 22 | 08 | 1- MESA |
| Electronics and Telecommunication Engg | 1801 | 159 | 131 | 22 | 06 | 1 |
| Computer Science and Engg | 2194 | 157 | 175 | 24 | 04 | 1 |
| Civil Engineering | 1862 | 144 | 83 | 44 | - | 1- CESA |
| Electrical Engineering | 934 | 37 | 63 | 34 | - | 1 |
| MBA | 450 | - | 48 | 14 | - | 1 |
| **Total** | **9086** | **594** | **592** | **160** | **18** | **6** |

Meeting took note of the above and expressed satisfaction about the academic activities. Further it was unanimously resolved as follows;

1) HODs should ensure that all subject teachers of their respective departments have provided the necessary study material online to the students.
2) HODs should ensure that all teachers have updated their teaching dairy as per the format provided by Dean Academics.
3) Review lectures should be started immediately as soon as syllabus is get completed and be conducted up to fifteen days before the date of University examination.
4) HODs should ensure that subject teachers have demonstrated the Practicals to the students similar to the online theory lectures.
5) HODs should also ensure that ISEs are conducted as per their departmental calendar and progress of students be communicated to the parents.

Proposed by: P. M. Pawar
Seconded by: Mr. J. B. Gaikwad

**Item No. 4** **About ISO 9001:2015 Audit.**

**Resolution No. 4** It was brought to the notice of the meeting that TUV Rheinland had conducted ISO 90001:2015 recertification audit of our Institute held on 09/11/2020 & 10/11/2020. Following was also brought to the notice of the meeting.

1) The audit was carried out virtually as well as on-site.
2) All the academic departments (MECH,ENTC,CSE,CIVIL,FY,Electrical and MBA)were audited virtually, while the non-academic departments (TPO, Store, Library,Office, Maintenance, Girls and Boys Hostel, and Transportation) were audited onsite.
3) The meeting was concluded by the lead auditor by declaring No major non-conformities and the institute being approved for Recertification.

Meeting took note of the same and congratulated Principal Dr. B. P. Ronge and his team for successfully carrying out ISO 90001:2015 recertification audit. It was also unanimously resolved that ISO Coordinator Ms. M. M. Bhore should communicate suggestions if any given by audit team to the concern authorities.

Proposed by: Prof. Ms. M. M. Bhore
Seconded by: Mr. Samudragupta Talukdar

**Item No. 5** **About Review of Research Projects, Funds, Publications & Future plan.**

**Resolution No. 5** It was brought to notice of the meeting the review related to R & D activities in the Institute by Dean R & D, Dr. S. B. Salunkhe as mentioned below:

**A) Publications:**

| Name of Dept. | Web of Science (SCI,ES, SSCI,SCIE, AHCI) | | SCOPUS | | UGC Care Journal | | Non-UGC Care Journal | | Conference | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Published | Submitted | Published | Submitted | Published | Submitted | Published | Submitted | Presented | Submitted |
| Mech. | 4 | 5 | 1 | - | 1 | - | - | - | 7 | 14 |
| CSE | 1 | - | - | - | - | - | - | - | - | 23 |
| ENTC | - | - | 6 | 4 | 3 | - | 1 | - | 2 | 17 |
| Civil | - | - | - | - | - | 1 | - | - | - | 6 |
| Electrical | 1 | - | 1 | - | - | - | - | - | 2 | - |
| F.Y. B. Tech | - | - | - | - | 2 | - | - | - | - | 4 |
| MBA | - | - | - | - | - | - | - | - | - | 2 |

**B) Consultancy**

| Name of Department | Amount in Rs. |
|---|---|
| MECH | 18,585/- |
| CSE | 1,42,935/- |
| E&TC | Nil |
| Civil | 3,38,783/- |
| Electrical | 30,000/- |
| F.Y. B.Tech | Nil |
| **Total** | **5,50,303/-** |

**C) Funds/Research Grants Received**

| Sr. No. | Name of Proposal sanctioned | Name of funding Agency | Amount Sanctioned | Name of Principal Investigator |
|---|---|---|---|---|
| 1. | Pilot project for Exploring the Applications and Developing Business Models for Utilisation Drones Like Mini Air Vehicles for Agricultural Applications | RGSTC | 45 Lakhs | Dr. P. M. Pawar |
| 2 | Atal FDP on Wearable Devices | AICTE | 93000/- | Mr. M. S. Mathpati |
| 3 | Development of Low cost Portable Indigenous Teliya (Bacterial Blight of Pomegranate) Detection System and Early Disease Awareness | Alumni Association Seed Money Grant, SVERIs College of Engineering Pandharpur | 1,00,000/- | Dr. S. B. Salunkhe |

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|---|---|---|---|---|
| 4 | Environmental Application of Moringa oliofera | Alumni Association Seed Money Grant, SVERIs College of Engineering Pandharpur | 100000/- | Dr. R. S. Pawar |

Meeting took note of the above and appreciated the efforts made by Institute in respect of R & D activities. The following was unanimously resolved as follows;

1) HODs should review the research plan prepared by Dean R&D in their departmental meetings.
2) HODs should fulfill the targets mentioned in the plan by taking continuous follow-up.
3) Dean R & D through HODs should focus on writing research proposals to different funding agencies like AICTE, RGSTC, DST, University, etc. and bring maximum fund to the Institute to perform research.

Proposed by: Dr. S. B. Salunkhe
Seconded by: Dr. N. B. Pawar

**Item No. 6 About Review of Placement of Students.**

**Resolution No. 6** The review of Placement of students in the semester-I of A.Y. 2020-2021 was put before the meeting .

1) Till date 06 companies have visited our campus and selected 16 students.
2) The highest package of Rs. 4.51 LPA is offered by Persistant for which 02 students are placed.
3) 11 students are placed from CSE and ENTC for CAPGEMINI with Package of Rs. 3.8 LPA.

The meeting took note of the same and unanimously resolved as follows;

1) Dean TPII should be actively involved in Training & Placement activities.
2) Dean TPII should collect information of various industries those are in close contact with our management from the respective management members.

Proposed by: Prof. A. A. Mote
Seconded by: Mr. Samudragupta Talukdar

**Item No. 7 About One week Departmental STTP to be organized by Department.**

**Resolution No. 7** It was brought to the notice of the meeting that as per the policy of our Institute every department has to organized one week STTP per semester.

Following are the details of plan/organized One week Departmental STTP by Department is put before the meeting.

| Sr.No. | Name of Department | Title of STTP | Organized / Proposed Date |
|---|---|---|---|
| 1) | Mechanical Engineering | One week online FDP on" Research Opportunities and Challenges in Manufacturing Sector" | 01-06-2020 to 06-06-2020 |
| | | One week STTP on "Sustainable Approaches in Non-Conventional Energy Sources" | 03-05-2020 to 07-05-2020 |
| 2) | Electronics & Telecommunication Engineering | One week online FDP on "Advances and Research Opportunities in E&TC Engineering". | 10-06-2020 To 14-06-2020 |
| | | Five days online FDP/STTP on Sensor Technology sponsored by AICTE Training And Learning (ATAL). | 07-09-2020 To 11-09-2020 |
| | | Five days online FDP on Wearable Devices and its Technologies sponsored by AICTE Training And Learning (ATAL). | 01-02-2021 To 05-02-2021 |

| | | | |
|---|---|---|---|
| 3) | Computer Science & Engineering | Block Chain with Devops | Slot 1 - 04/08/2020 to 09/08/2020<br>Slot 2- 14/09/2020 to 19/09/2020<br>Slot 3 - 14/12/2020 to 19/12/2020 |
| 4) | Civil Engineering | One week online FDP on "Design Thinking Approaches in Civil Engineering". | 22-06-2020 To 26-06-2020 |
| | | Civil Engineering Solutions by Considering Health, Safety, Legal and Cultural Aspects | 07/06/2021 to 19/06/2021 |
| 5) | Electrical Engineering | Electric & Hybrid Vehicles | 04/01/2021 to 08/01/2021 |

Meeting took note of the same and expressed satisfaction to the departments those have successfully organized one week STTP and informed other Head of Departments to organize one week STTP as per their plan.

Proposed by: Dr. S. S. Wangikar
Seconded by: Dr. A. A. Utpat

**Item No. 8** **About Review of Industry Institute Partnership Cell (IIPC).**

**Resolution No. 8** Review of activities conducted by Industry Institute Partnership Cell (IIPC) was taken in the meeting as per the following details;

| Department/ Activities | MOUs | Staff Industrial Visit | Consultancy | Sponsored Project | Guest Lecturer from Industry | Seminar and Workshop | R&D Activities | Minutes of Meeting with Industry |
|---|---|---|---|---|---|---|---|---|
| MECH ENGG. | 1 | 5 | 184128 | 10 | 6 | 2 | 5 | 2 |
| CIVIL ENGG. | 1 | 2 | 458084 | Nil | 5 | 2 | Nil | Nil |
| ENTC ENGG. | 2 | Nil | 2000 | 6 | 11 | 5 | 4 | 7 |
| CSE | 1 | Nil | 142935 | 4 | 4 | 2 | Nil | Nil |
| EE | 1 | Nil | 30000 | Nil | 3 | 5 | Nil | Nil |

Meeting took note of the same and further unanimously resolved that IIPC Coordinator in consultation with Dean TPII should strengthen the Industry Institute Partnership Cell (IIPC) activities.

Proposed by: Prof. B. D. Gaikwad
Seconded by: Prof. C. B. Nadagouda

**Item No. 9** **About Green Audit.**

**Resolution No. 9** It was brought to the notice of the meeting that to conduct Green Audit of SVERI Campus Work order (SVERI/2019-20/Elect./94 dated 25/03/2020) has been given to Green Papillon Industrial Electricals, Baramati. Also it was informed to the meeting that auditors of said company visited to our campus and Planned to complete the audit procedure in next month.

Meeting took note of the same and informed Green Audit Coordinator to take continuous follow-up to complete the audit procedure as early as possible.

Proposed by: Prof. M. S. Mathpati
Seconded by: Mr. R. G. Zarkar

**Item No. 10 About Review of activities related Techno-Societal- 2020 Conference**

**Resolution No. 10** The following was brought to the notice of the meeting.

1) The earlier Techno-Societal International Conferences held in 2016 & 2018 was organized successfully and the proceedings were published by Springer Publications.
2) Due to COVID-19, pandemic situation 3rd Techno-Societal International Conference-2020 is organized through online mode scheduled on 11/12/2020 to 12/12/2020.
3) Till date 335 papers are received out of which approximately 250 papers will be published by Springer Publications.
4) Till date 610 are registered for 3rd Techno-Societal International Conference-2020.

Meeting took note of the above and unanimously resolved as follows;

1) Appreciated the efforts of Institute, Principal and Chairman of organizing committee Dr. B. P. Ronge, Coordinator Dr. P. M. Pawar and their team for organization of Techno Societal Conference 2020.
2) Efforts should be made to have grand success of 3rd Techno-Societal International Conference-2020.
3) Dr. B. P. Ronge is authorised to take appropriate decisions including financial in respect of all the requirements to make this conference successful.

Proposed by: Dr. P. M. Pawar
Seconded by: Dr. N. B. Pawar

**Item No. 11 About 2nd Cycle of NAAC Accreditation.**

**Resolution No. 11** It was brought to the notice of the meeting about the work status of 2nd cycle of NAAC Accreditation as per the given below table;

| Sr. No. | Criteria | % of work completion status | Remark for Documents to be collected |
|---|---|---|---|
| 1 | Curricular Aspects | 95 | • Documents of Setting of question papers for UG/PG programs (2015-16,2017-18).<br>• Documents of Design and Development of Curriculum for Add on/ certificate/ Diploma Courses<br>• Feedback Analysis |
| 2 | Teaching-Learning and Evaluation | 90 | • The Institute assess the learning levels of students and organizes special programs for advances and slow learner<br>• Approved Mentor list as announced by the HOD<br>• Experience certificate |
| 3 | Research, Innovations and Extension | 95 | • Reports of STTP,<br>• Details of Vocational Training for A. Y. 2015-16, 2016-17 is pending |
| 4 | Infrastructure and Learning Resources | 95 | • Budget details of 2019-20 |
| 5 | Student Support and Progression | 95 | • Capacity building and skill enhancement data for 2019-2020.<br>• GATE and civil service data to be updated<br>• Sports data to be updated of previous academic year |
| 6 | Governance, Leadership and Management | 90 | • Revision in office documents |

| | | | |
|---|---|---|---|
| 7 | Institutional Values and Best Practices | 90 | • Energy Audit, Documentation related to Anti -Ragging sessions, Savitribai Phule Jayanti, Baby Carec Centre, etc. |

The meeting took note of the same and unanimously resolved as follows:

1) NAAC Coordinator should start filling IIQA information on NAAC portal in first week of December, 2020.
2) NAAC Coordinator should ensure the correctness of data in related to IIQA and SSR information.
3) NAAC Coordinator should ensure the completion of remaining work of Criteria before submission of IIQA.
4) Dr. B. P. Ronge is authorised to take all necessary financial decisions in respect of the activities related to NAAC.

Proposed by: Dr. S. S. Wangikar
Seconded by: Mr. J. B. Gaikwad

**Item No. 12 Issues with the permission of the Chair**

**Item No. 12(1) About AICTE Visvesvaraya Best Teachers Award to Dr. P. M. Pawar.**

**Resolution No. 12(1)** It was brought to the notice of the meeting that AICTE has declared National level Sir Vishweshwarya Best Teacher Awards for the best 10 Teachers in India. Dr. P. M. Pawar Dean Academics of our Institute has grabbed first position for the said Award given by AICTE on 15/09/2020.

Meeting took note of the same and congratulated Dr. P. M. Pawar for this remarkable achievement and given best wishes for his bright future.

Proposed by: Mr. C. B. Nadagouda
Seconded by: Mr. Samudragupta Talukdar

There being no further issue to discuss, the meeting was concluded with vote of thanks to the chair and all present.

*****

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

COLLEGE OF ENGINEERING * PANDHARPUR

PRINCIPAL
College of Engineering,
PANDHARPUR.

The Meeting of Internal Quality Assurance Cell (IQAC) of SVERI's College of Engineering, Pandharpur was held on 28/02/2021 at 4.00 pm in the Institute premises.

Following members were present For the meeting.

| Sl. No | Name | | Sign. |
|---|---|---|---|
| 1) | Dr. D.S. Chaudhari | | |
| 2) | Dr. S.A. Lendave | | |
| 3) | Dr. A.S. Vibhute | | |
| 4) | Dr. R.R. Kidde | (Invitee) | |
| 5) | Mr. R.G. Zaskar | (Invitee) | |
| 6) | N.S. Kargade | (Invitee) | |
| 7) | A.A. Mote | | |
| 8) | Dr. Prashant Maruti Pawar | | |
| 9) | Prof. Dr Abhay Utpat | | |
| 10) | Mr. S.Y. Salunkhe | (Invitee) | |
| 11) | Mr. Ashish A. Jadhav | (Invitee) | |
| 12) | Dr Santosh B. Salunkhe | | |
| 13. | B.P. Ronge | | B.Ronge |
| 14. | Mr. D.T. Kashid | (Invitee) | |
| 15 | M.G. Deshmukh | (Invitee) | |
| 16. | Mukund M Pawar | (Invitee) | |
| 17. | R.D. Odage | | |
| 18. | S.A. Inamdar | (Invitee) | |
| 19. | Prof. C.B. Nadagonda | | |
| 20. | Mr. M.S. Mathpati | | |
| 21. | Mr. S.M. Shinde | | |
| 22 | B.D. Gaikwad | | |
| 23 | Sachin R. Gaval. | | |
| 24 | Antosh M. Dyade | | |
| 25 | K.B. Patil | | |
| 26. | Dr. S.S. Wangikar | | |
| 27. | Mr. S.M. Bagal | | |

Following business was transacted during the meeting

All present were welcomed by Dr. B. P. Ronge, Principal, SVERI's College of Engineering, Pandharpur and Chairman of Internal Quality Assurance Cell (IQAC).

**Item No. 1** **Confirmation of the minutes of the last meeting.**

**Resolution No. 1** The minutes of the last meeting held on Sunday, 29/11/2020 were read and confirmed unanimously.

Proposed by: Dr. S. S. Wangikar
Seconded by: Prof. C. B. Nadagouda

**Item No. 2** **About Action Taken Report on resolutions passed in the last meeting.**

**Resolution No. 2** The Action taken on the various decisions taken by the meeting held on Sunday, 29/11/2021 were put before the meeting as per the following details:

| Item No. | Item | Resolutions/ Action Points | Responsibility given to | Action Taken |
|---|---|---|---|---|
| 1. | Confirmation of the Minutes of the last meeting. | The minutes of the last meeting held on 06/09/2020 were read and confirmed unanimously. | Dean Admin. | ---- |
| 2. | About Action Taken Report on resolutions passed in the last meeting. | The meeting took note of the action taken report and expressed satisfaction wherever the actions are completed. The committee informed the concerned to take rigorous follow-up and complete the tasks as early as possible where actions related to items are in progress. | Dean Admin. | ---- |
| 3. | About Review of activities for Semester-I of A.Y.2020-2021. | HODs should ensure that all subject teachers of their respective departments have provided the necessary study material online to the students.<br>HODs should ensure that all teachers have updated their teaching dairy as per the format provided by Dean Academics.<br>Review lectures should be started immediately as soon as syllabus is get completed and be conducted up to fifteen days before the date of University examination.<br>HODs should ensure that | All HODs | All HODs have submitted the reports in respect of passed resolutions. The details are as follows;<br>1) All the study material was uploaded on google drive. Video lectures are uploaded on YouTube and link was provided to students.<br>2) All teachers have updated their Teaching diary and HODs are taking follow taken on regular basis.<br>3) All departments have started revision lectures immediately after completing syllabus.<br>4) All departments have conducted online practicals in line with theory.<br>5) ISEs are conducted and progress is communicated to |

| Item No. | Item | Resolutions/ Action Points | Responsibility given to | Action Taken |
|---|---|---|---|---|
| | | subject teachers have demonstrated the Practicals to the students similar to the online theory lectures. HODs should also ensure that ISEs are conducted as per their departmental calendar and progress of students be communicated to the parents. | | the parents. |
| 4. | About ISO 9001:2015 Audit. | Meeting took note of the same and congratulated Principal Dr. B. P. Ronge and his team for successfully carrying out ISO 90001:2015 recertification audit. It was also unanimously resolved that ISO Coordinator Ms. M. M. Bhore should communicate suggestions if any given by audit team to the concern authorities. | Prof. M. M. Bhore | ISO Coordinator Ms. M. M. Bhore communicated suggestions given by audit team to Institute level authorities. |
| 5. | About Review of Research Projects, Funds, Publications & Future plan. | HODs should review the research plan prepared by Dean R&D in their departmental meetings. HODs should fulfill the targets mentioned in the plan by taking continuous follow-up. Dean R & D through HODs should focus on writing research proposals to different funding agencies like AICTE, RGSTC, DST, University, etc. and bring maximum fund to the Institute to perform research. | Dr. S. B. Salunkhe | 1) Research Plan was submitted to HOD and departmental R&D coordinator.<br>2) Through departmental R&D coordinator there is continuous follow up.<br>3) More than 39 Proposals has been submitted from last meeting to this meeting. |
| 6. | Review of Placement of Students. | Dean TPII should be actively involved in Training & Placement activities. Dean TPII should collect information of various industries those are in close contact with our management from the respective management members. | Prof. A. A. Mote | 1) Active Participation is ensured through Industry visits through which campus drives of core companies are confirmed.<br>2) More Leads have been generated through NASSCOM conference and HR forums.<br>3) TPO is maintaining communication with Hon. Management members for more leads for campus placements. |

| Item No. | Item | Resolutions/ Action Points | Responsibility given to | Action Taken |
|---|---|---|---|---|
| 7. | About One week Departmental STTP to be organized by Department. | Meeting took note of the same and expressed satisfaction to the departments those have successfully organized one week STTP and informed other Head of Departments to organize one week STTP as per their plan. | All HODs | **HOD Mech.:**<br>One week STTP will be conducted in May/June 2021(one funding proposal is submitted to PAHSUS and another proposal is submitted to AICTE)<br>**HOD E&TC:**<br>One STTP and Two ATAL FDPs are conducted by department<br>**HOD CSE:**<br>3 slots of one week AICTE Sponsored<br>STTP on "Block chain with Devops"<br>conducted.<br>**HOD Civil:**<br>One week STTP will be conducted in May/June 2021. Also, funding proposal is submitted to AICTE. |
| 8. | About Review of Industry Institute Partnership Cell (IIPC). | Meeting took note of the same and further unanimously resolved that IIPC Coordinator in consultation with Dean TPII should strengthen the Industry Institute Partnership Cell (IIPC) activities. | Prof. B. D. Gaikwad<br>&<br>Prof. A. A. Mote | 1) Meeting was conducted with industry professionals from DCPL,TOP Gear, Reliance Jio, DIC Solapur.<br>2) Thorough discussion was made on latest technology and industry needs as well as related to Entrepreneurship sessions from DIC.<br>3) Also MoUs signed with ATLAS COPCO, Transneuron, Grade Up and Skillshark, RK Infotech for Guest lecture, GATE/IES/SSC training, centre of excellence, Placement etc activities.<br>4) Industry leaders allowed our students for Internship once the current situation will be normal. Also they have agreed for sharing problem statements which can be used for Projects and consultancy purpose. |
| 9. | About Green Audit. | Meeting took note of the same and informed Green Audit Coordinator to take continuous follow-up to complete the audit procedure as early as possible. | Dr. R. S. Pawar | Audit is conducted. |

| Item No. | Item | Resolutions/ Action Points | Responsibility given to | Action Taken |
|---|---|---|---|---|
| 10. | About Review of activities related Techno-Societal- 2020 Conference | Appreciated the efforts of Institute, Principal and Chairman of organizing committee Dr. B. P. Ronge, Coordinator Dr. P. M. Pawar and their team for organization of Techno Societal Conference 2020.<br>Efforts should be made to have grand success of 3rd Techno-Societal International Conference-2020.<br>Dr. B. P. Ronge is authorised to take appropriate decisions including financial in respect of all the requirements to make this conference successful. | Dr. S. B. Salunkhe | 3rd Techno-Societal 2020 International Conference on Advanced Technology for Societal Application was arranged successfully on 11/12/2020 and 12/12/2020. |
| 11. | About 2nd Cycle of NAAC Accreditation. | NAAC Coordinator should start filling IIQA information on NAAC portal in first week of December, 2020.<br>NAAC Coordinator should ensure the correctness of data in related to IIQA and SSR information.<br>NAAC Coordinator should ensure the completion of remaining work of Criteria before submission of IIQA.<br>Dr. B. P. Ronge is authorised to take all necessary financial decisions in respect of the activities related to NAAC. | Dr. S. S. Wangikar | 1) IIQA form filling on NAAC portal has been started.<br>2) NAAC Coordinator ensured the correctness of data required to be filled for SSR.<br>3) After submission of IIQA, immediately data filling of SSR on NAAC portal will be started. |
| 12 (1) | About AICTE Visvesvaraya Best Teachers Award to Dr. P. M. Pawar. | Meeting took note of the same and congratulated Dr. P. M. Pawar for this remarkable achievement and given best wishes for his bright future. | .... | .... |

The meeting took note of the action taken report and expressed satisfaction wherever the actions are completed. The committee informed the concerned to take rigorous follow-up and complete the tasks as early as possible where actions related to items are in progress.

Proposed by: Prof. S. R. Gawali

Seconded by: Dr. N. B. Pawar

**Item No. 3** **About Plan of activities for Semester-II of A.Y.2020-2021.**

**Resolution No. 3** It was brought to the notice of the meeting that Semester-II of A.Y. 2020-2021 for Direct Second Year(DSY), T.Y.B.Tech. and Final Year B.Tech. students is started from 08/02/2021. The following academic activities have been implemented.

1) Online Lectures of daily five hours.
2) Online Practical's
3) Practice Sessions
4) Online Tests
5) Online Guest/Expert Lectures
6) Project work for Final Year Students
7) Study Material Sheet for Students

Meeting took the note and it was resolved unanimously as follows;

1) Teachers should provide necessary study materials to the students.
2) Teachers should daily updated teaching dairy.
3) Regular tests be conducted and performance should be sent to the parents.
4) Record of online practical's, Online Guest/Expert Lectures, Project dairy, etc. should be maintained by concerned teachers.

Proposed by: Dr. P. M. Pawar
Seconded by: Dr. A. S. Vibhute

**Item No. 4** **About Review of Research Projects, Funds, Publications & Future plan.**

**Resolution No. 4** Following review of R&D, Consultancy & Extension activities since date of last meeting to till date was taken during the meeting.

**A) Details of papers publications in journals & Conferences and Consultancy generated**

| Sr.No. | Department | No. of papers published in journals | No. of papers presented in Conferences | Amount of Consultancy Generated in Rs. |
|---|---|---|---|---|
| 1. | Mech. | 03 | 11 | 27,081 |
| 2. | E&TC | 03 | 18 | 00 |
| 3. | CSE | 00 | 18 | 00 |
| 4. | Civil | 04 | 13 | 5,22,606 |
| 5. | Elect. | 00 | 05 | 00 |
| 6. | First Year | 01 | 04 | 00 |
| 7. | MBA | 00 | 02 | 00 |
| | Total | **11** | **71** | **5,49,687** |

**B) Funds/Research Grants Received:**

| Sr. No. | Name of Proposal sanctioned | Name of funding Agency | Amount Sanctioned | Name of Principal Investigator |
|---|---|---|---|---|
| 1. | Optimal design of micro-components for microfluidic applications | PAH, Solapur University, Solapur - Seed Money Proposal | 55,000/- | Prof. D. D. Ronge |
| 2 | Low cost PDMS based lenses using hanging droplets | PAH, Solapur University, Solapur - Seed Money Proposal | 60,000/- | Dr. R. R. Gidde |
| 3 | ATAL FDP on Wearable devices | AICTE | 93000/- | Mr. M. S. Mathpati |

| Sr. No. | Name of Proposal sanctioned | Name of funding Agency | Amount Sanctioned | Name of Principal Investigator |
|---|---|---|---|---|
| 4 | AICTE Sponsored STTP on "Blockchain in DevOps: Implementing Transparent Continuous Delivery " | AICTE | 3,00,000/- | Dr. S. S. Apte |
| 5 | IoT and microscopic images based pathology system for rural health care. | RGSTC andPAH Solapur University, Solapur | 490000/- | Dr. A. S. Vibhute |
| 6 | Design, Develop, Manufacture, Installation & Commissioning with Trials of Solar Powered Single Tower Pivot Irrigating System | RGSTC andPAH Solapur University, Solapur | 490000/- | Dr. B. P. Ronge<br>Dr. Padmakar Kelkar<br>Dr. S. S. Wangikar |

**C) Submitted Proposal:**

| Sr. No. | Name of Proposal sanctioned | Name of funding Agency | Amount Sanctioned | Name of Principal Investigator |
|---|---|---|---|---|
| 1. | Development of deep learning algorithm for fast detection of COVID-19 using Lung Images. | PAH, Solapur University, Solapur - Breakthrough Research | 200000/- | Dr. Mrs. M. M. Pawar |
| 2 | Development of cost effective IoT based Soil Analyzer | PAH, Solapur University, Solapur - Breakthrough Research | 200000/- | Dr. Anup S. Vibhute |
| 3 | E Ration Card and Automated Ration Distribution System (One Nation One Ration Card) | PAH, Solapur University, Solapur - Breakthrough Research | 200000/- | Mr. R. B. Kagade |
| 4 | Biogas Generation from Flower Waste, Subsequent Quality Improvement and Bottling Plant | PAH, Solapur University, Solapur - Breakthrough Research | 200000/- | Dr. S. S. Wangikar |
| 5 | Low cost PDMS based lenses using hanging droplets | PAH, Solapur University, Solapur - Breakthrough Research | 200000/- | Dr. R. R. Gidde |
| 6 | Analysis on Nutritive, Medicinal and Environmental Importance of Moringa oleifera | PAH, Solapur University, Solapur - Breakthrough Research | 200000/- | Dr. P. M. Pawar |
| 7 | IOT Based Smart Cradle System for Baby Monitoring. | PAH, Solapur University, Solapur - Breakthrough Research | 200000/- | Mr. Pankaj G. Gaikwad |

| Sr. No. | Name of Proposal sanctioned | Name of funding Agency | Amount Sanctioned | Name of Principal Investigator |
|---|---|---|---|---|
| 8 | Improvement in Solar Panel Efficiency Using Solar Concentration by Simple Mirrors and Cooling | PAH, Solapur University, Solapur - Breakthrough Research | 200000/- | Dr. Mrs. D. A. Tamboli |
| 9 | An Efficient Healthcare System to Address Chronic Diseases Issues using IoT Technology | PAH, Solapur University, Solapur - Breakthrough Research | 200000/- | Mrs. Vanita D. Jadhav |
| 10 | Studies on Metal Complexes of Some Acylhydrazones | PAH, Solapur University, Solapur - Breakthrough Research | 200000/- | Dr. Mrs. M. M. Awatade |
| 11 | An investigation into a hard turning of AISI H24 steel | PAH, Solapur University, Solapur - Seed Money | 100000/- | Mr. B. D. Gaikwad |
| 12 | Deep learning Based Structural Analysis for detection of Dimension Changes under loading | PAH, Solapur University, Solapur - Seed Money | 100000/- | Dr. Mrs. M. M. Pawar |
| 13 | Design and Development of Raspberry-Pi Lab and its application | PAH, Solapur University, Solapur - Seed Money | 100000/- | Mr. G. G. Patil |
| 14 | Detection And Classification Of Advanced Malware Using Machine Learning Techniques | PAH, Solapur University, Solapur - Seed Money | 100000/- | Mr. S. M. Shinde |
| 15 | Developing Various Approaches for Improving Strength and Integrity Performances of RCC Pile Foundation | PAH, Solapur University, Solapur - Seed Money | 100000/- | Prof. Aninash B. Kokare |
| 16 | Performance Evaluation of Rigid Pavement using Manufactured Sand (M-Sand) to Enhance Concrete Mixes | PAH, Solapur University, Solapur - Seed Money | 100000/- | Prof. Chetan R. Limkar |
| 17 | Blood Group Recognition using Image Processing | PAH, Solapur University, Solapur - Seed Money | 100000/- | Mr. A. A. Jadhav |
| 18 | Set-up of on demand OS infrastructure | PAH, Solapur University, Solapur - Seed Money | 100000/- | Mr. R. B. Kagade |
| 19 | An investigation into a UV Disinfectant Tunnel System | PAH, Solapur University, Solapur - Seed Money | 100000/- | Dr. Mrs. D. A. Tamboli |

| Sr. No. | Name of Proposal sanctioned | Name of funding Agency | Amount Sanctioned | Name of Principal Investigator |
|---|---|---|---|---|
| 20 | Wearable Devices and Its Applications | PAH, Solapur University, Solapur - Seed Money | 100000/- | Mr. H. K. Bhaldar |
| 21 | AI, ML and its Societal Applications | PAH, Solapur University, Solapur - Workshop/Seminar | 100000/- | Dr. Anup S. Vibhute |
| 22 | Use of Remote Sensing and GIS for solving Civil Engineering Problem | PAH, Solapur University, Solapur - Workshop/Seminar | 100000/- | Dr. Prashant M. Pawar |
| 23 | Python for Industry Perspective | PAH, Solapur University, Solapur - Workshop/Seminar | 100000/- | Dr. Bhuvaneshwari C. Melinamath |
| 24 | Sustainable Approaches in Non Conventional Energy Sources | PAH, Solapur University, Solapur - Workshop/Seminar | 100000/- | Dr. Sachin A. Sonawane |
| 25 | Recent Advances in Material Science and Engineering | PAH, Solapur University, Solapur - Workshop/Seminar | 100000/- | Dr. Satish A. Lendave |
| 26 | Sustainable Technologies in Non-Conventional Energy Sources: Current status, Challenges, Future prospects, Employment, and Investment opportunities. | AICTE- FDP | 375000/- | Dr. Sandeep Sitaram Wangikar |
| 27 | Civil Engineering Solutions by Considering Health, Safety, Legal and Cultural Aspects. | AICTE- FDP | 375000/- | Dr. Ms. Vidyarani Saudagar Kshirsagar |
| 28 | Practical Challenges in the Design & Development of Electric Vehicles | AICTE- FDP | 375000/- | Dr. Ms. Dipti Amol Tamboli |
| 29 | Introduction of Geomorphology | AICTE - Book Writing | 100000/- | Dr. Ranjitsinh S. Pawar |
| 30 | Recent Advances in Materials Science and Engineering | AICTE - ISTE | 100000/- | Dr. Satish Lendave |
| 31 | An Accelerator for Quality Improvement in Engineering Education | AICTE - ISTE | 100000/- | Dr. Ms. Dipti Amol Tamboli |
| 32 | ISTE Student Chapter | AICTE -SPICES | 100000/- | Dr. S. B. Salunkhe |
| 33 | Disaster Management during Yatra at Pandharpur for safety & security of pilgrims. | AICTE -RPS | 1000000/- | Dr. Mrs. B. C. Melinamath |

| Sr. No. | Name of Proposal sanctioned | Name of funding Agency | Amount Sanctioned | Name of Principal Investigator |
|---|---|---|---|---|
| 34 | Optimal Design of Microfluidic Devices for Societal Applications | AICTE -RPS | 1300000/- | Dr. B. P. Ronge |
| 35 | Development of DSS using Deep Learning for Societal Application | AICTE -RPS | 1956000/- | Dr. Mrs. M. M. Pawar |
| 36 | Analysis of Dynamic Performance of Retrofitted RCC Structures | AICTE -RPS | 2000000/- | Dr. P. M. Pawar |
| 37 | To establish testing and measurement facility of antenna parameters. | AICTE - MODROB | 1800000/- | Prof. Mahesh S Mathpati |
| 38 | Modernization of I C Engine lab- CRDI Engine Experimental set ups with Computer Interface | AICTE - MODROB | 1800000/- | Dr. B. P. Ronge |
| 39 | Modernization of AI, IOT and ML Lab | AICTE - MODROB | 1900000/- | Dr. Mrs. B. C. Malinamath |

Meeting took note of the same and appreciated efforts of Institute in respect of R&D, Consultancy and Extension activities. Further it was resolves unanimously as follows:

1) Paper publications in SCI/SCOPUS indexed journal should be increased.
2) Citation Index like H index, I index of the Institute should be determined.

Proposed by: Dr. S. B. Salunkhe
Seconded by: Prof. R. D. Solage

**Item No. 5** **About Review of Placement of Students.**

**Resolution No. 5** Following was brought to the notice of the meeting in respect of Placement of students.

1) Till date for A.Y. 2020-2021, thirty nine (39) companies have visited our campus for placement.
2) Total 244 students out of 391 eligible students are selected.
3) Highest salary of Rs. 10.00 LPA while average salary of Rs. 3.63 LPA is offered.

Meeting took note of the above and expressed satisfaction & further following was resolved unanimously as follows;

1) T & P office should focus on the placement of not eligible students also.
2) Dean P & CA should conduct awareness programs related to placement for non-eligible students.
3) T&P office should take necessary efforts for increasing campus placement.

Proposed by: Dr. A. A. Utpat
Seconded by: Prof. M. S. Mathpati

**Item No. 6** **About Review of Techno-Societal- 2020 Conference.**

**Resolution No. 6** Following review of Techno-Societal International Conference-2020 held on 11/12/2020 to 12/12/2020 was taken during the meeting.

1) The conference was inaugurated by Hon. Dr. Anil D. Sahstrabudhe (Chairman AICTE).
2) Total 366 papers were presented of about 700 authors from nearly 100 Institutes.
3) The proceedings of the conference (Techno Societal 2020) was submitted to the SPRINGER Publication in two volumes and total 211 papers will be published in it.
4) Following seven resource persons have participated.
    1. Dr. Vijay Joshi. Currently, working as Consultant to Kypreos group, one of the largest Civil Engineering and Infrastructure management Companies.
    2. Mr. Shivaji Pawar, Deputy General Manager, National Highway Authority of India from NHAI .
    3. Dr. Thomas Ochuku Mbuya Chairman, Department of Mechanical & Manufacturing Engineering. UNIVERSITY OF NAIROBI.
    4. Botir Usmanov, Rector of Tashkent chemical-technological Institute in Uzbekistan.
    5. Dr. S. P. Arun, Associate Professor, Centre for Neuroscience, Indian Institute of Science, Bangalore.
    6. Dr. Yelloji-Rao Mirajkar, Executive Director of Hindu Swayamsevak Sangh, USA and Senior Technical Associate, Colgate-Palmolive Company, USA.
    7. Dr. Murunalini Pattarkine, Passionate educator, STEM curriculum developer, Workforce Skill Development, Innovation MedTech, Academia-industry collaboration, Healthcare Technology and Innovator at Harrisburg, Pennsylvania, United States.

Meeting took note of the same and congratulated Hon. Principal Dr. B. P. Ronge and Institute Management for successful organization of Techno-Societal International Conference-2020. Following was resolved unanimously;

1) The outcomes of the conference be defined by Techno-Societal team and start working on the same.
2) One page write-up in term of outcome be prepared and given broader publicity.

Proposed by:Dr. P. M. Pawar
Seconded by: Dr. S. B. Salunkhe

**Item No. 7** **About Review of Annual Reports of Programs/Activities conducted by Institute from A.Y.2015-2016 to A.Y.2019-2020.**

**Resolution No. 7** Review of five years annual reports of Programs/Activities conducted by Institute for the academic years 2015-16, 2016-17, 2017-18, 2018-19 & 2019-20 was taken during the meeting.

Meeting took the note and expressed satisfaction.

Proposed by: Dr. S. S. Wangikar
Seconded by: Prof. MS. V. D. Jadhav

**Item No. 8** **About Status of 2nd Cycle NAAC Accreditation.**

**Resolution No. 8** It was brought to the notice of the meeting the following status about the preparation for 2nd cycle of NAAC Accreditation.

1) IIQA filing on NAAC portal is in progress.
2) Uploading necessary documents on our Institute website is on the verge of completion.

Meeting took the note and following was resolved unanimously;

1) The documents uploading work on Institute website should be completed up to 15/03/2021.
2) IIQA should be filled in all respect on NAAC portal up to 15/03/2021.
3) Dr. R. R. Gidde should be appointed henceforth as a NAAC Coordinator and Dr. S. S. Wangikar should be continued in the NAAC Committee as a team member.

Proposed by: Dr. P. M. Pawar
Seconded by: Mr. S. M. Bagal

**Item No. 9** **About Review of Programs organized for students.**

**Resolution No. 9** It was brought to notice of the meeting that following various online programs are organized for the students for A.Y.2020-2021.

| Sr.No. | Name of Function | No. of Students Participating |
|---|---|---|
| 1 | International YOGA DAY -21st June 2020 | For all |
| 2 | Independence Day-15th August 2020 | For all |
| 3 | SVERI Foundation Day- 17th August 2020 | For all |
| 4 | Teachers Day-05th September 2020 | For all |
| 5 | Engineer's Day-15th September 2020 | For all |
| 6 | Gandhi Jayanti-02nd October 2020 | For all |
| 7 | BEATS 2k17-29th& 30th December 2020 | For all |
| 8 | Republic Day- 26th January 2021 | For all |
| 9 | Shivjayanti- 19th February 2021 | For all |
| 10 | International Women's Day- 08th March 2021 | For all |
| 11 | Dr. Babasaheb Ambedkar Jayanti- 14th April 2021 | For all |

Meeting took the note and expressed satisfaction. It was also resolved unanimously that Dean students' should give focus on organization of programs for students on the issues like health ,hygiene and gender specific.

Proposed by:Prof. M. S. Mathpati
Seconded by:Dr. A. A. Utpat

**Item No. 10 Issues with the permission of the Chair**

**Item No. 10(1) :About Best Principal Award of PAH Solapur University, Solalpur to Dr. B. P. Ronge**

**Resolution No. 10(1)** It was brought to the notice of the meeting that our Principal Dr. B. P. Ronge has recently received the best principal award given by PAH Solalpur University, Solapur.
Meeting took note of the same and congratulated Dr. B. P. Ronge for being awarded as a best principal award given by PAH Solalpur University, Solapur.

Proposed by:Dr. P. M. Pawar
Seconded by:Prof. C. B. Nadagouda

There being no further issue to discuss, the meeting was concluded with the permission of the chair after vote of thanks to the chair and all present.

*****

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

COLLEGE OF ENGINEERING PANDHARPUR

PRINCIPAL,
College of Engineering,
PANDHARPUR.

# FEEDBACK ANALYSIS

# SVERI's College of Engineering, Pandharpur

## Department of Mechanical Engineering

## Analysis of Stakeholders Feedback Report

Academic Year: 2019-2020

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## A. Analysis of Students' Feedback Report:

### Department of Mechanical Engineering

### Academic Year: 2019-2020

### Total Responses =136

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 51.5 | 38.2 | 10.3 | 0.0 | 0.0 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 45.6 | 39.0 | 15.4 | 0.0 | 0.0 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 42.6 | 30.9 | 20.6 | 4.4 | 1.5 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 40.4 | 33.1 | 19.9 | 5.1 | 1.5 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 40.4 | 37.5 | 22.1 | 0.0 | 0.0 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 47.8 | 33.8 | 18.4 | 0.0 | 0.0 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 41.2 | 38.2 | 20.6 | 0.0 | 0.0 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 39.0 | 33.8 | 14.7 | 8.1 | 4.4 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 36.0 | 36.0 | 16.9 | 6.6 | 4.4 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 50.0 | 34.6 | 15.4 | 0.0 | 0.0 |

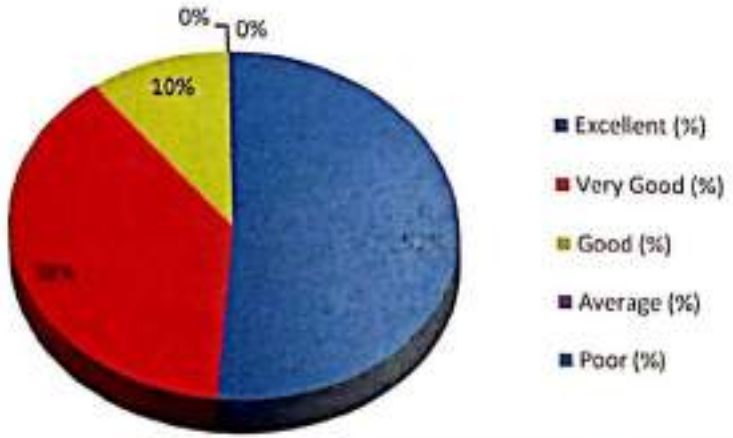


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College of Engineering
PANDHARPUR

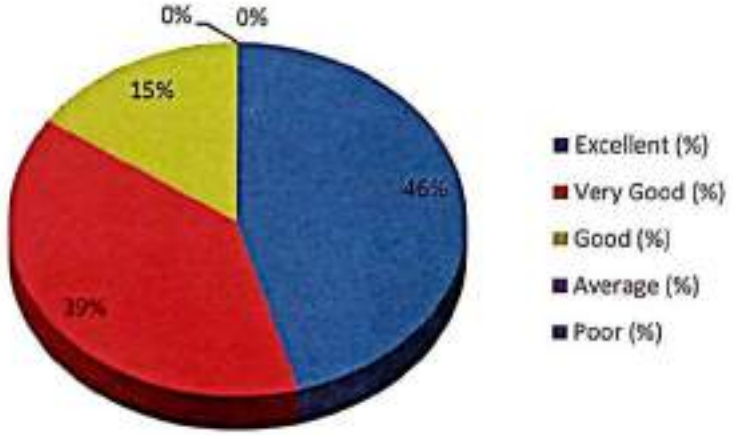
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# Analysis of Stakeholders Feedback Report

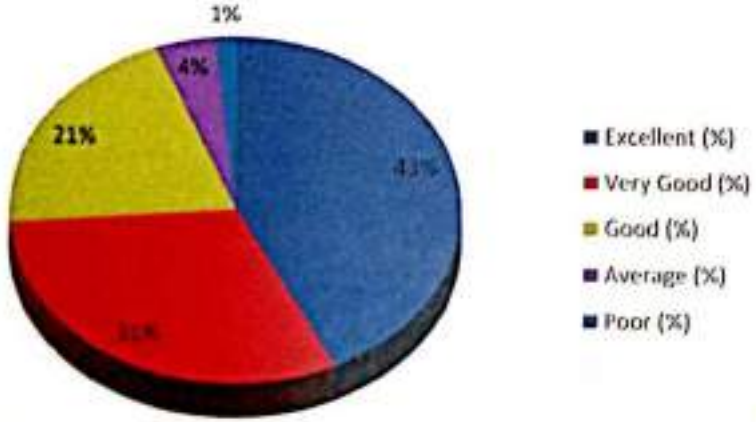
**Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?**



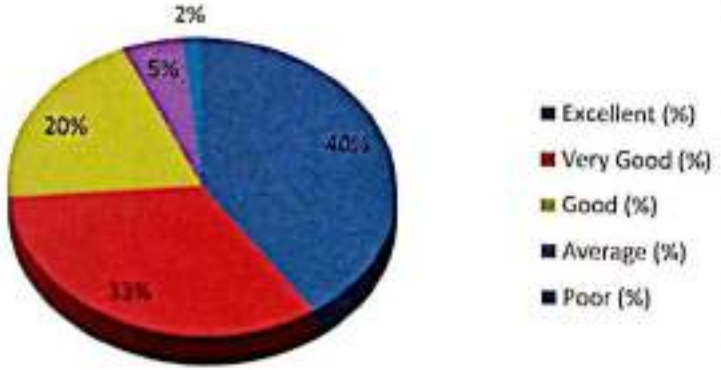

**Q.2 How do you rate the relevance of the units in syllabus significant to the course?**




**Q.3 How do you rate the electives offered in relation to the technological advancements?**




**Q.4 Rate the courses in terms of extra learning or self learning considering the design of the courses?**

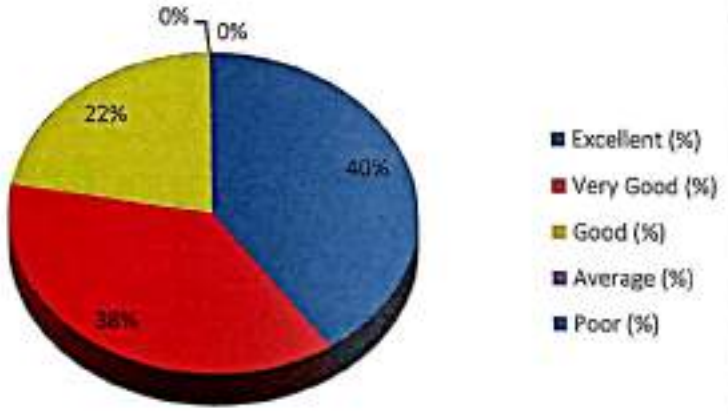



COLLEGE OF ENGINEERING PANDHARPUR

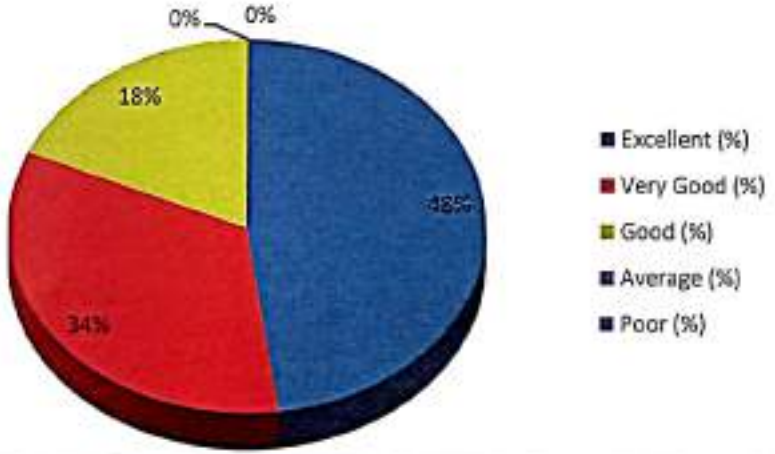
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# Analysis of Stakeholders Feedback Report

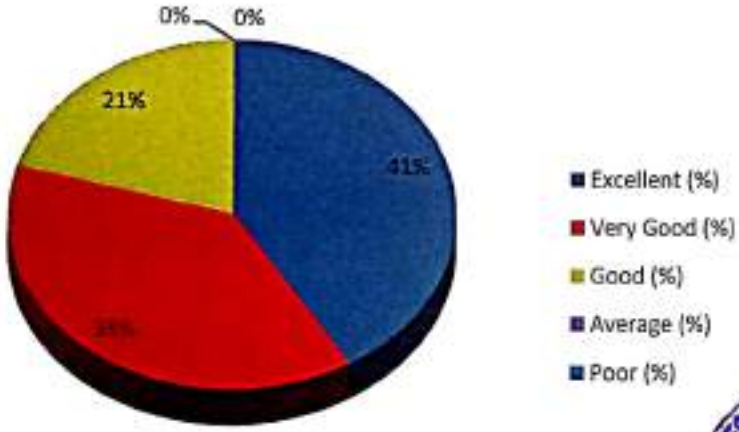
**Q.5 Rate the theoretical concepts of syllabus supported by Practical/Experiments?**



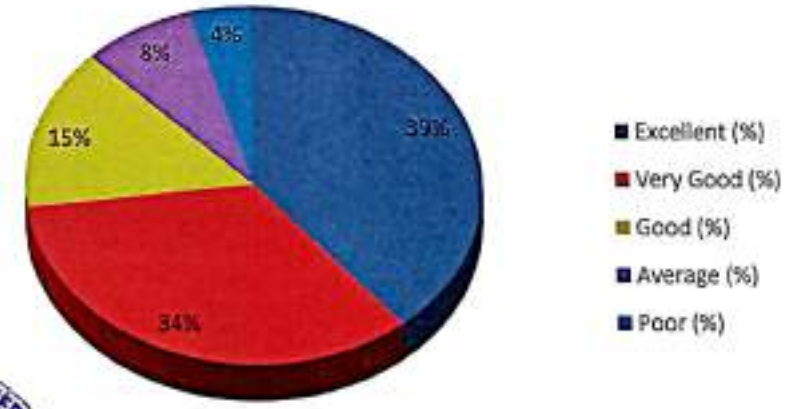

**Q.6 Rate the contents included in the syllabus with reference to professional and higher level learning skills?**




**Q.7 How do you rate the evaluation scheme designed for each of the course?**



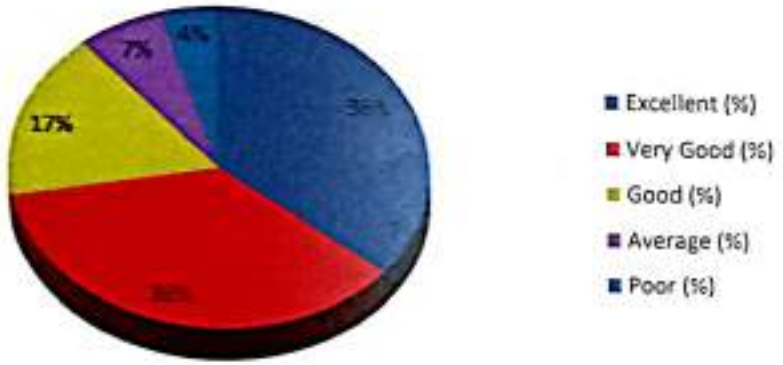

**Q.8 How do you rate the sequence of the courses in the curriculum?**



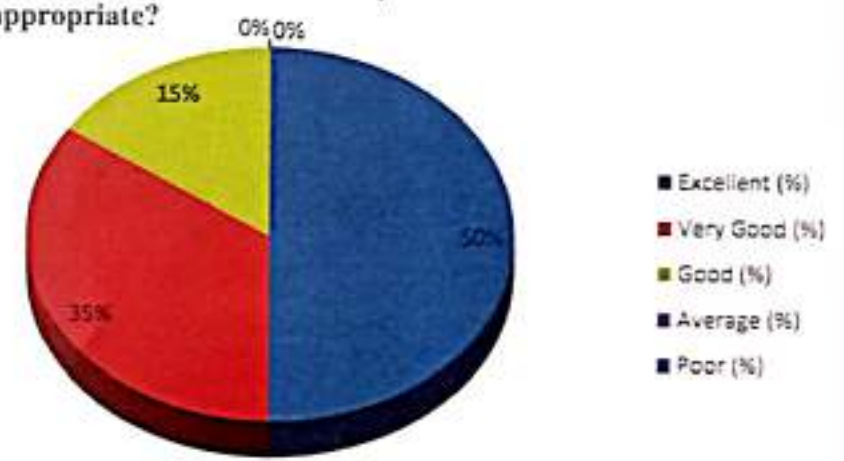

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**Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning?**




**Q.10 How do you rate the books listed as reference materials are relevant, updated and appropriate?**




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## B. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

**Department Name:- Mechanical Engineering** **Academic Year: 2019-2020**

**Total Responses =32**

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 3.1 | 15.6 | 28.1 | 31.3 | 21.9 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0.0 | 15.6 | 18.8 | 46.9 | 18.8 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 0.0 | 15.6 | 25.0 | 31.3 | 28.1 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0.0 | 18.8 | 15.6 | 56.3 | 9.4 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 0.0 | 3.1 | 28.1 | 40.6 | 28.1 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 3.1 | 12.5 | 18.8 | 37.5 | 28.1 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 3.1 | 3.1 | 34.4 | 37.5 | 21.9 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0.0 | 9.4 | 25.0 | 46.9 | 18.8 |
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 3.1 | 6.3 | 12.5 | 46.9 | 31.3 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 0.0 | 9.4 | 28.1 | 34.4 | 28.1 |

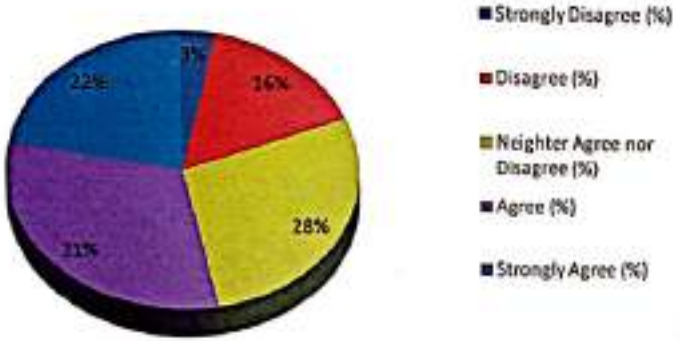



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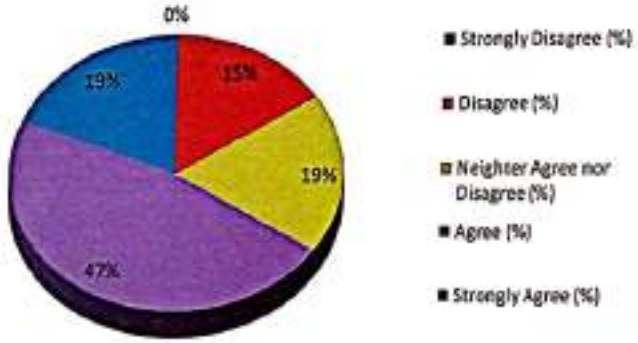
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# Analysis of Stakeholders Feedback Report

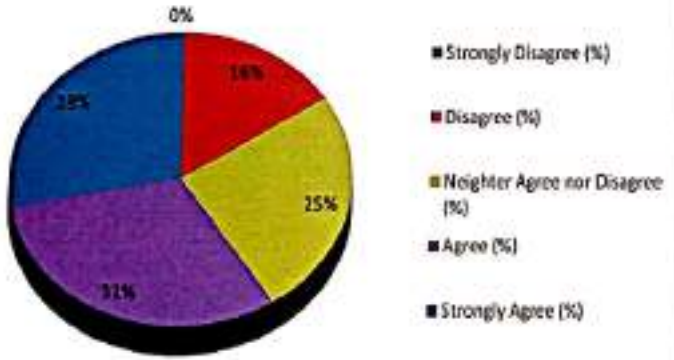
**Q.1 The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course.**



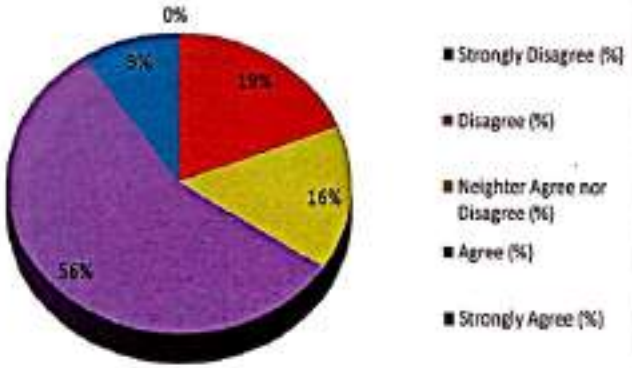

**Q.2 The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics.**




**Q.3 The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum).**




**Q.4 Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application.**

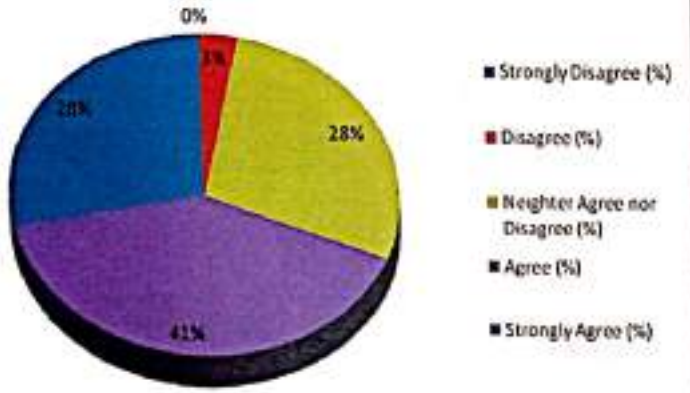



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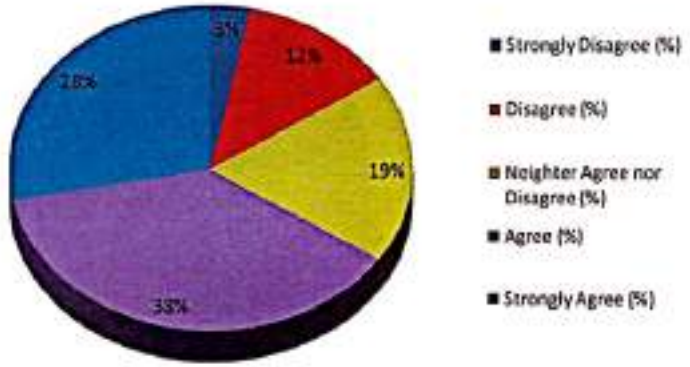
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# Analysis of Stakeholders Feedback Report

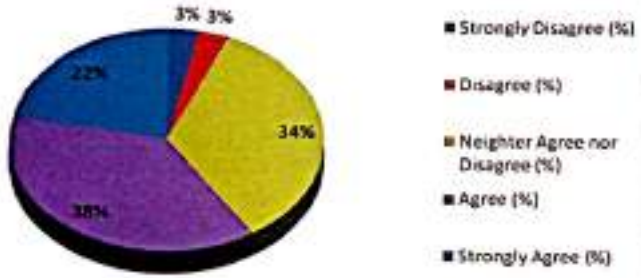
**Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.**



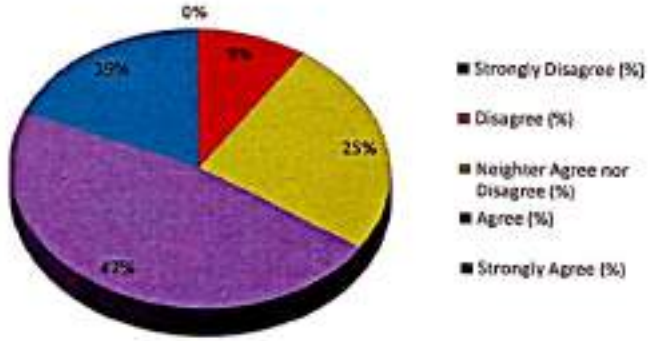

**Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.**




**Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.**



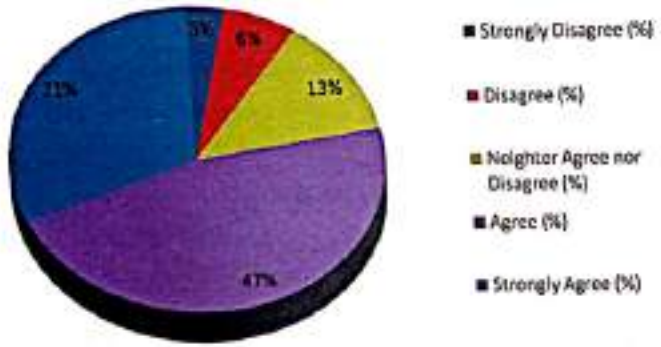

**Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.**



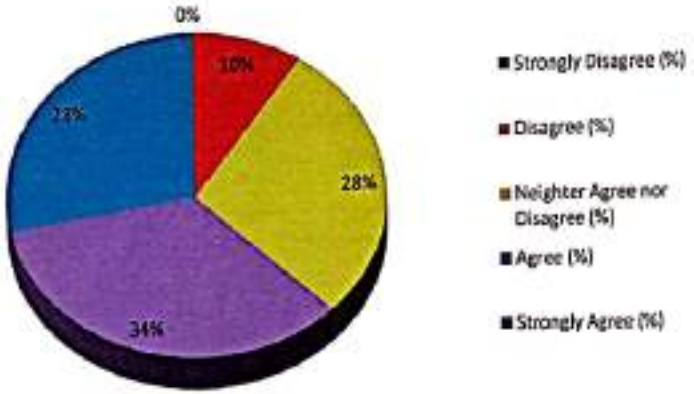

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**Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.**




**Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.**




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## C. Analysis of Alumni Feedback on the Syllabus and its Transaction at the Institution

**Department Name:- Mechanical Engineering** **Academic Year: 2019-2020**

**Total Responses =29**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.) | 51.7 | 17.2 | 27.6 | 3.4 | 0.0 |
| 2. | The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application. | 48.3 | 13.8 | 20.7 | 13.8 | 3.4 |
| 3. | Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering. | 41.4 | 20.7 | 10.3 | 24.1 | 3.4 |
| 4. | The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations. | 48.3 | 6.9 | 17.2 | 20.7 | 6.9 |
| 5. | Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable. | 48.3 | 10.3 | 31.0 | 6.9 | 3.4 |
| 6. | The books prescribed/listed as reference materials are relevant, updated and appropriate. | 44.8 | 10.3 | 27.6 | 17.2 | 0.0 |

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## Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 44.8 | 24.1 | 13.8 | 13.8 | 3.4 |
| 8. | The course enabled to build your future career. | 48.3 | 13.8 | 24.1 | 10.3 | 3.4 |

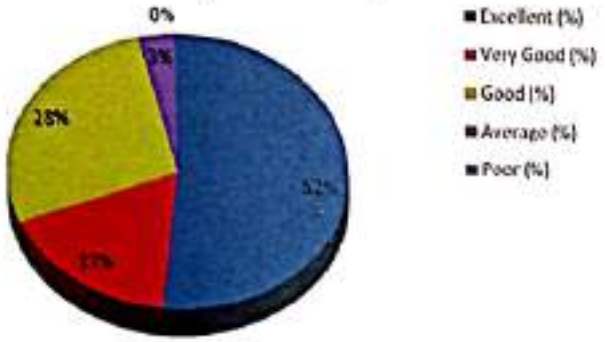



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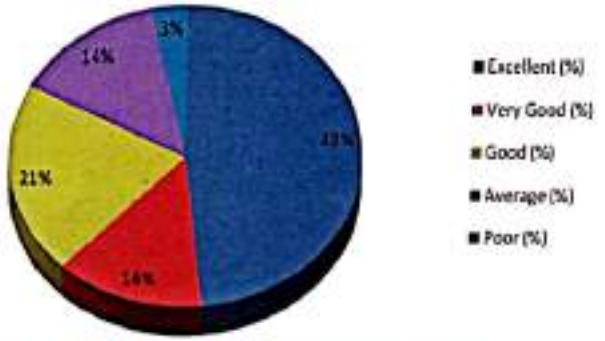
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# Analysis of Stakeholders Feedback Report

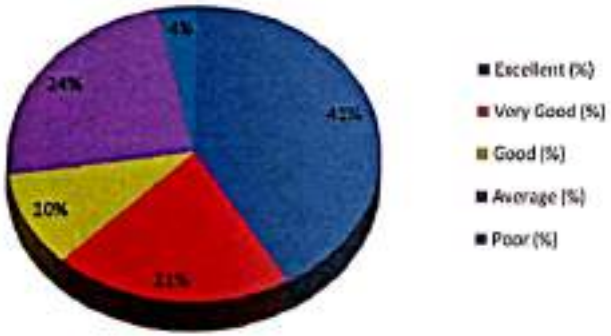
**Q.1 Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.)**



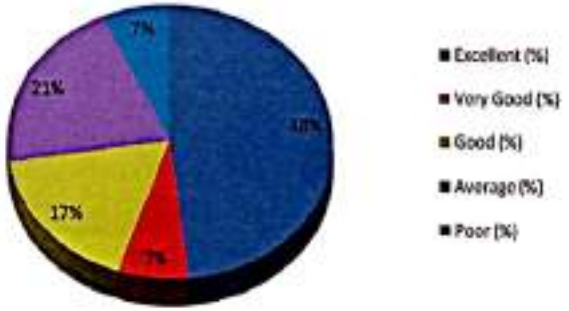

**Q.2 The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application.**




**Q.3 Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering.**



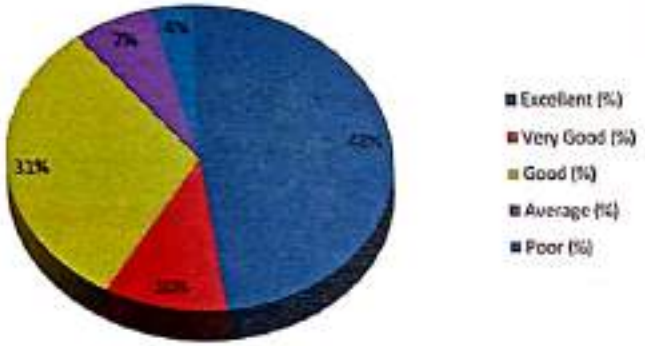

**Q.4 The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations.**



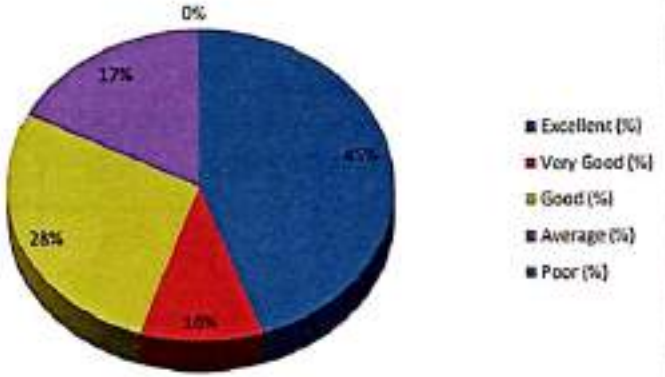

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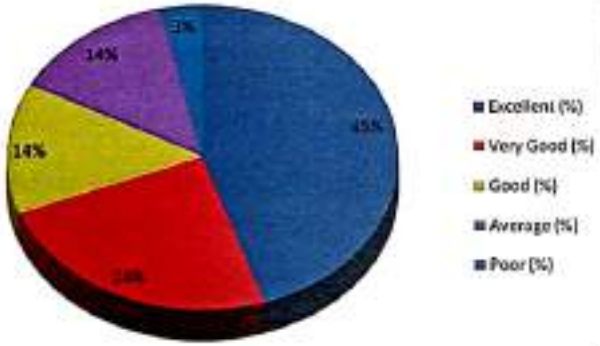
**Q.5 Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable.**



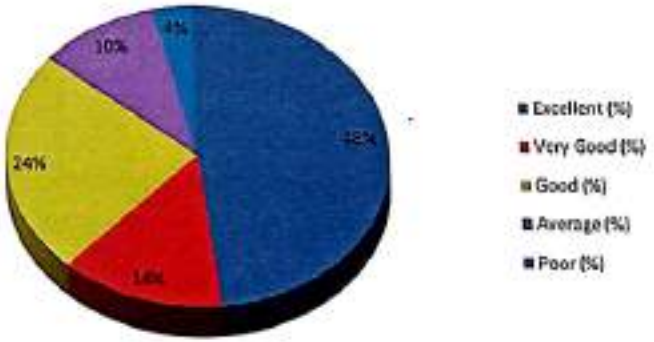

**Q.6 The books prescribed/listed as reference materials are relevant, updated and appropriate.**




**Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.**




**Q.8 The course enabled to build your future career.**




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## D. Analysis of Employers Feedback on the Syllabus and its Transaction at the Institution

### Academic Year: 2019-2020

**Total Responses = 4**

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | Current Curriculum of all Programmes is relevant for employability. | 0.0 | 25.0 | 75.0 | 0.0 | 0.0 |
| 2. | Curriculum bridges the gap between Industry and Academic. | 0.0 | 25.0 | 25.0 | 50.0 | 0.0 |
| 3. | Current curriculum offers need based and meets to the expectations of industry. | 0.0 | 50.0 | 25.0 | 25.0 | 0.0 |
| 4. | Curriculum has enriched content which fulfils required orientation human resources. | 0.0 | 0.0 | 75.0 | 25.0 | 0.0 |
| 5 | Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation. | 0.0 | 0.0 | 25.0 | 50.0 | 25.0 |
| 6 | Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization. | 0.0 | 25.0 | 75.0 | 0.0 | 0.0 |
| 7 | Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise. | 0.0 | 50.0 | 25.0 | 25.0 | 0.0 |
| 8 | Curriculum helps in edifice ability and motivation to the students for involvement in social activities. | 0.0 | 0.0 | 50.0 | 25.0 | 25.0 |

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| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 9 | Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team. | 0.0 | 25.0 | 50.0 | 25.0 | 0.0 |
| 10 | Curriculum show signs of independent thinking of students and appreciation of ethical values in their career. | 0.0 | 25.0 | 50.0 | 25.0 | 0.0 |



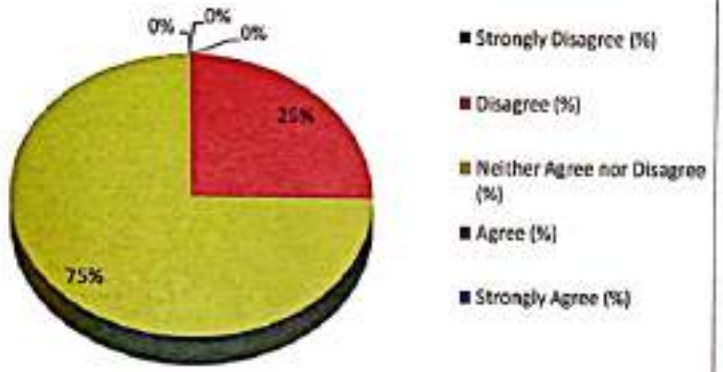
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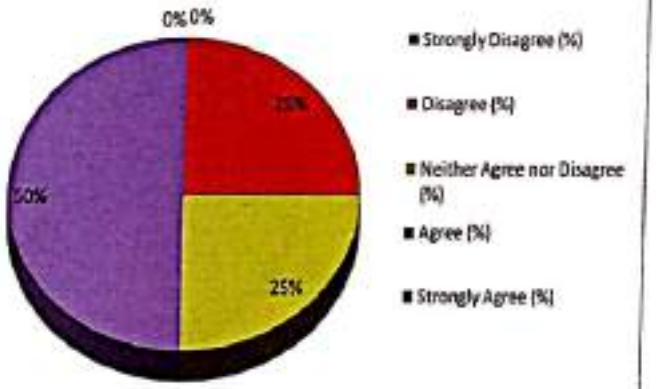
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# Analysis of Stakeholders Feedback Report

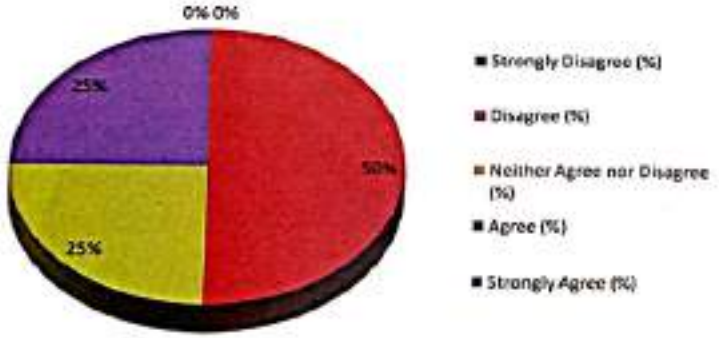
**Q.1 Current Curriculum of all Programmes is relevant for employability.**



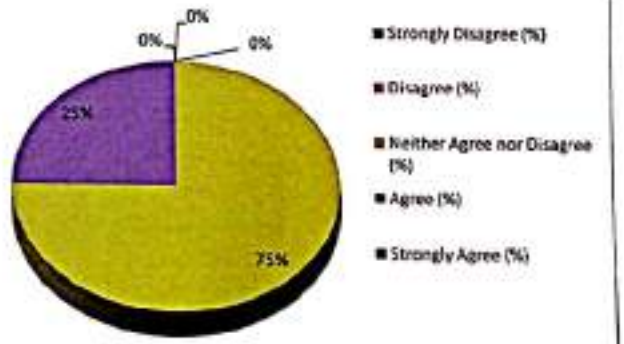

**Q.2 Curriculum bridges the gap between Industry and Academic.**




**Q.3 Current curriculum offers need based and meets to the expectations of industry.**



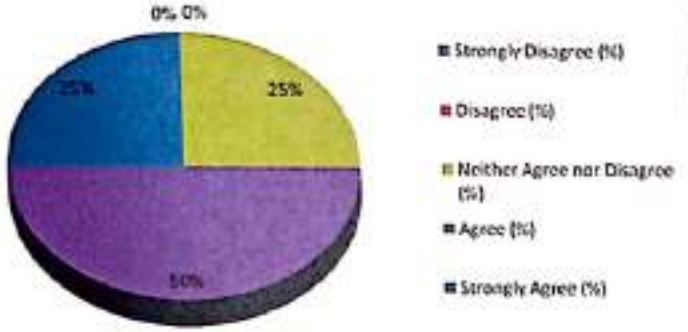

**Q.4 Curriculum has enriched content which fulfils required orientation human resources**



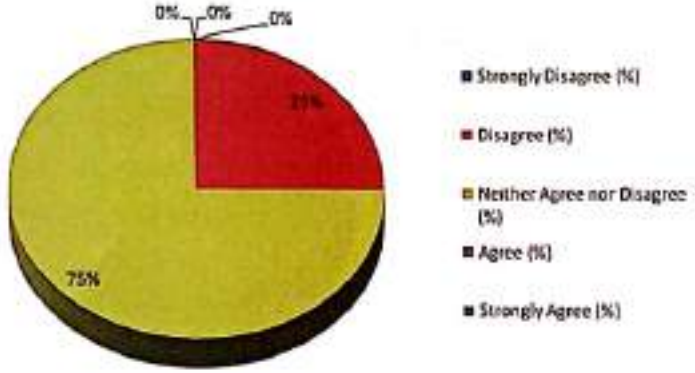

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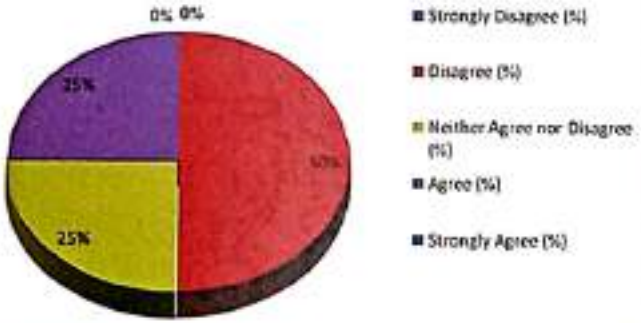
**Q.5 Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation.**



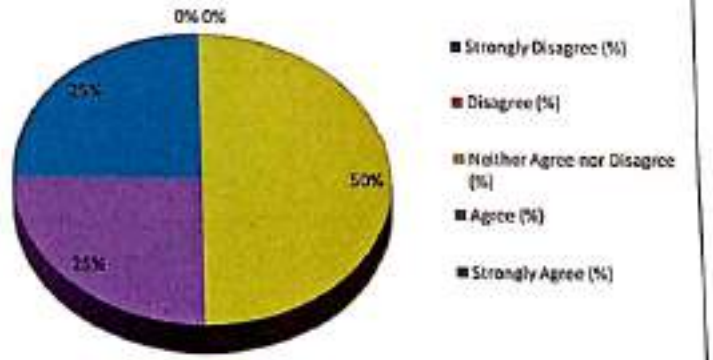

**Q.6 Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization.**




**Q.7 Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise.**



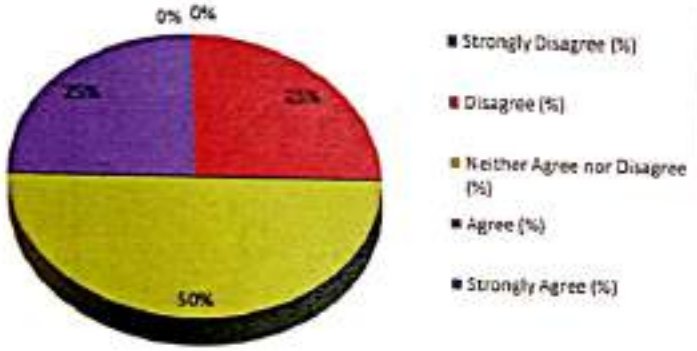

**Q.8 Curriculum helps in edifice ability and motivation to the students for involvement in social activities.**



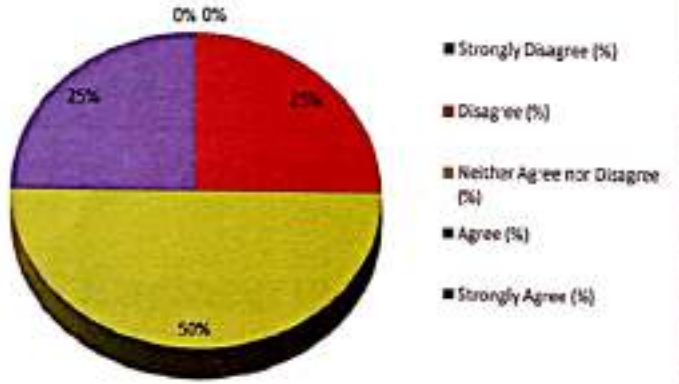

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**Q.9 Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team.**




**Q.10 Curriculum show signs of independent thinking of students and appreciation of ethical values in their career.**




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# SVERI's College of Engineering, Pandharpur

## Department of Mechanical Engineering

## Analysis of Stakeholders Feedback Report

**Academic Year: 2018-2019**

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## A. Analysis of Students' Feedback Report:

### Department of Mechanical Engineering

### Academic Year: 2018-2019

### Total Responses =303

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 68.0 | 16.5 | 14.2 | 1.3 | 0.0 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 41.9 | 43.9 | 12.9 | 1.3 | 0.0 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 46.5 | 36.0 | 16.5 | 1.0 | 0.0 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 44.6 | 38.3 | 16.2 | 1.0 | 0.0 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 41.3 | 38.9 | 18.2 | 1.3 | 0.3 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 40.3 | 43.9 | 14.9 | 0.7 | 0.3 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 43.6 | 36.0 | 18.8 | 1.3 | 0.3 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 39.6 | 40.6 | 17.2 | 2.0 | 0.7 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 47.2 | 30.0 | 19.8 | 3.0 | 0.0 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 38.3 | 42.2 | 16.2 | 2.0 | 1.3 |

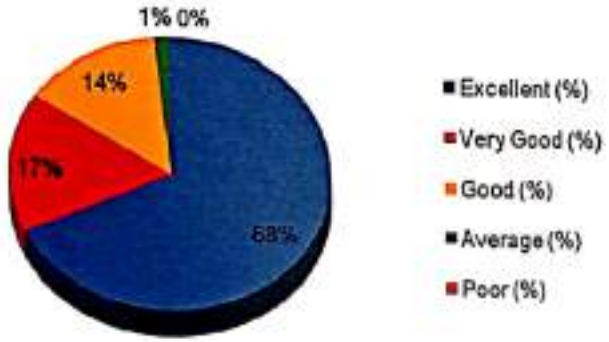


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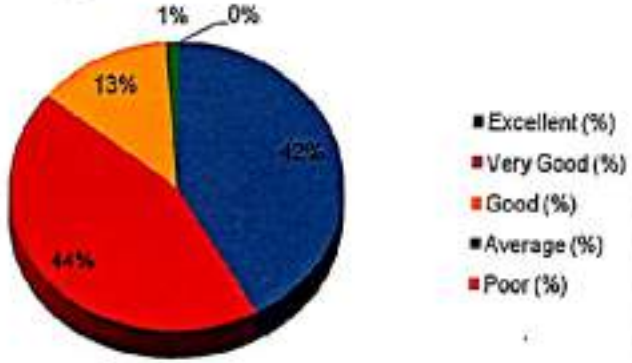
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# Analysis of Stakeholders Feedback Report

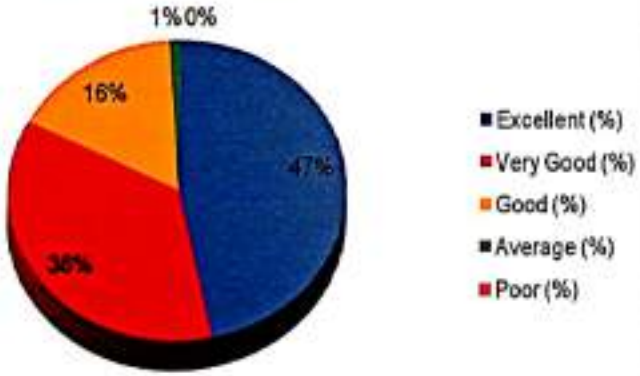
**Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?**



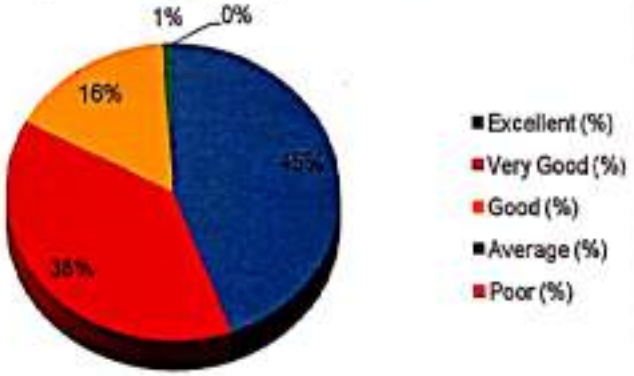

**Q.2 How do you rate the relevance of the units in syllabus significant to the course?**




**Q.3 How do you rate the electives offered in relation to the technological advancements?**




**Q.4 Rate the courses in terms of extra learning or self learning considering the design of the courses?**

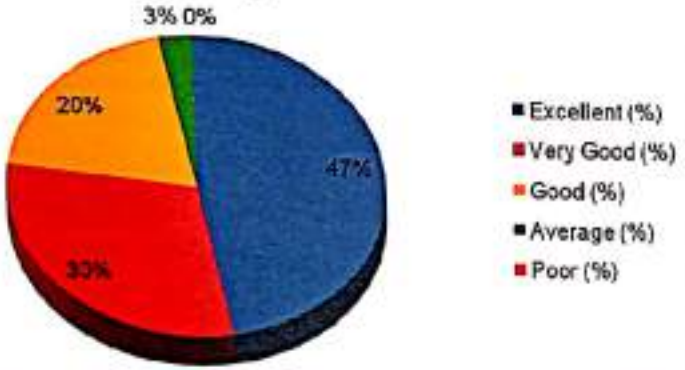



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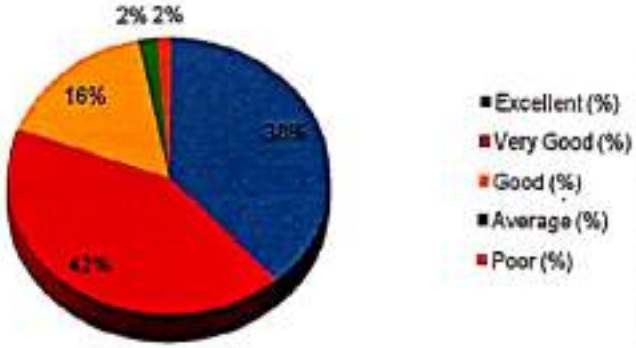
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# Analysis of Stakeholders Feedback Report

**Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning?**




**Q.10 How do you rate the books listed as reference materials are relevant, updated and appropriate?**




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## B. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

**Department Name:- Mechanical Engineering** **Academic Year: 2018-2019**

**Total Responses = 29**

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 6.9 | 20.7 | 27.6 | 20.7 | 24.1 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0.0 | 13.8 | 27.6 | 44.8 | 13.8 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 3.4 | 6.9 | 13.8 | 48.3 | 27.6 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0.0 | 13.8 | 31.0 | 31.0 | 24.1 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 3.4 | 6.9 | 31.0 | 34.5 | 24.1 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 0.0 | 10.3 | 24.1 | 41.4 | 24.1 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 0.0 | 17.2 | 17.2 | 44.8 | 20.7 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 3.4 | 3.4 | 31.0 | 44.8 | 17.2 |
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 0.0 | 10.3 | 17.2 | 41.4 | 31.0 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 3.4 | 3.4 | 27.6 | 34.5 | 31.0 |

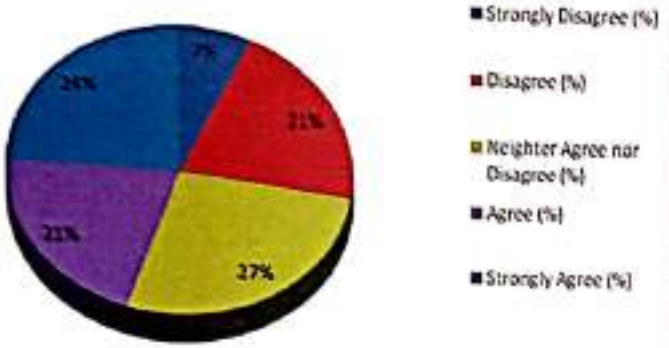



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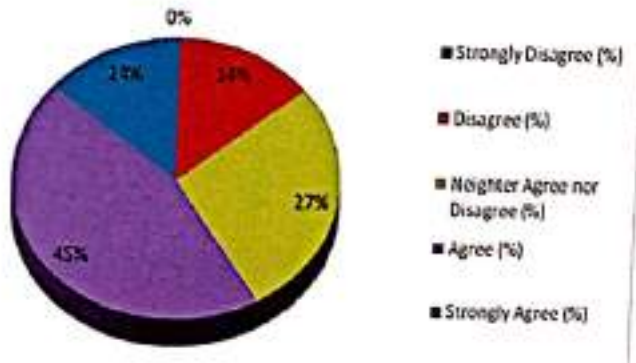
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# Analysis of Stakeholders Feedback Report

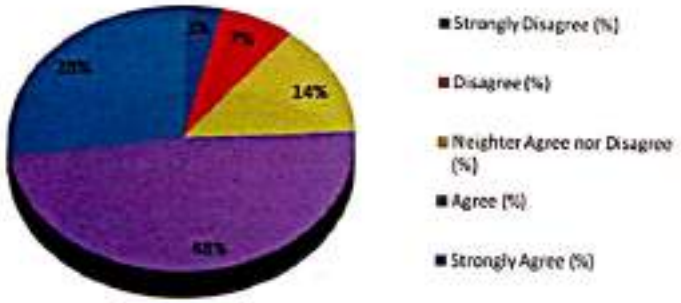
**Q.1 The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course.**



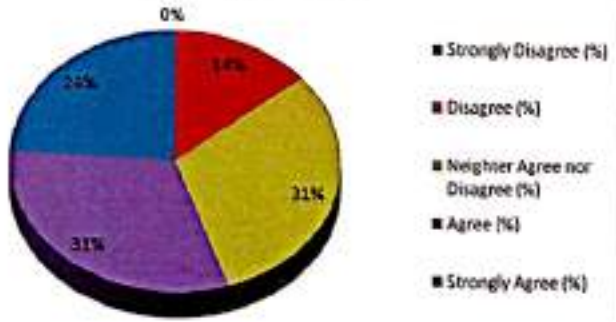

**Q.2 The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics.**




**Q.3 The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum).**




**Q.4 Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application.**

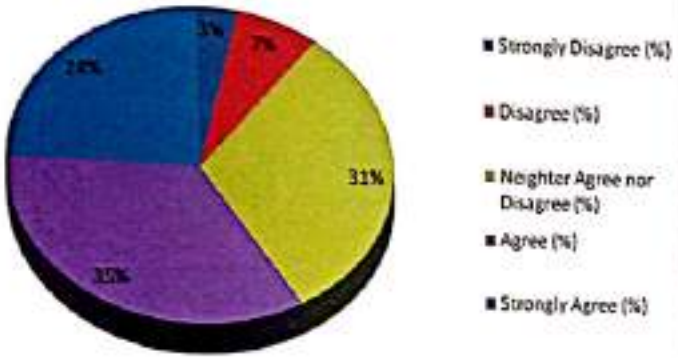



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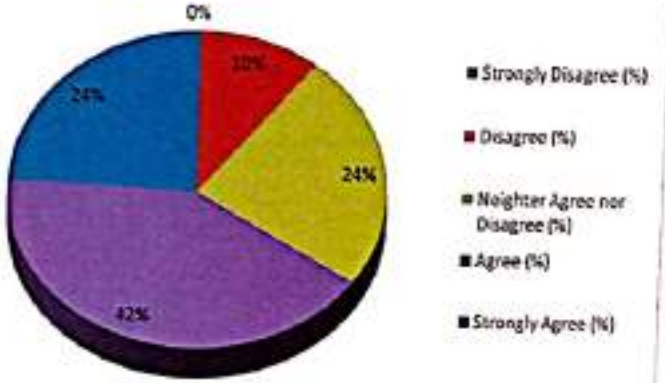
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# Analysis of Stakeholders Feedback Report

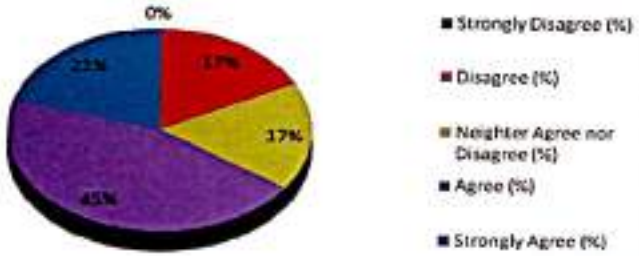
Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.



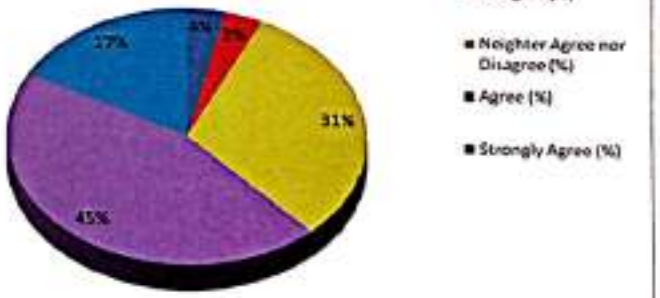

Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.



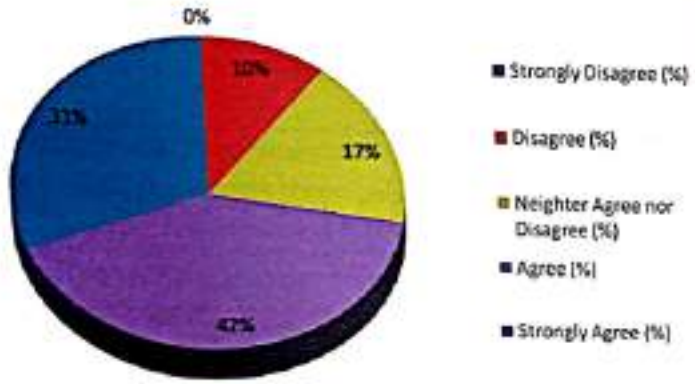

Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.



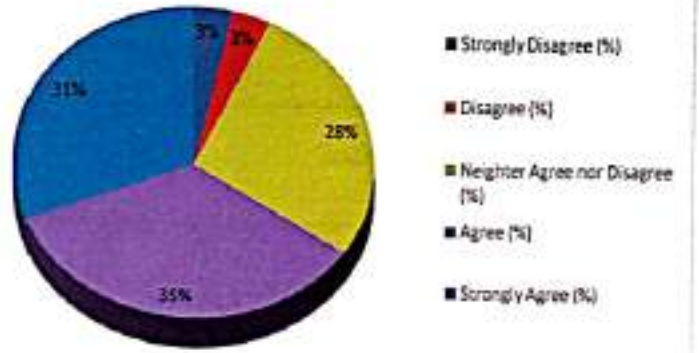

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**Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.**




**Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.**




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## C. Analysis of Alumni Feedback on the Syllabus and its Transaction at the Institution

**Department Name:- Mechanical Engineering** **Academic Year: 2018-2019**

**Total Responses = 35**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.) | 60.0 | 17.1 | 20.0 | 2.9 | 0.0 |
| 2. | The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application. | 57.1 | 5.7 | 20.0 | 14.3 | 2.9 |
| 3. | Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering. | 42.9 | 28.6 | 11.4 | 17.1 | 0.0 |
| 4. | The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations. | 37.1 | 34.3 | 14.3 | 14.3 | 0.0 |
| 5. | Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable. | 40.0 | 25.7 | 22.9 | 11.4 | 0.0 |
| 6. | The books prescribed/listed as reference materials are relevant, updated and appropriate. | 37.1 | 37.1 | 17.1 | 8.6 | 0.0 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 48.6 | 17.1 | 22.9 | 11.4 | 0.0 |
| 8. | The course enabled to build your future career. | 45.7 | 28.6 | 2.9 | 22.9 | 0.0 |

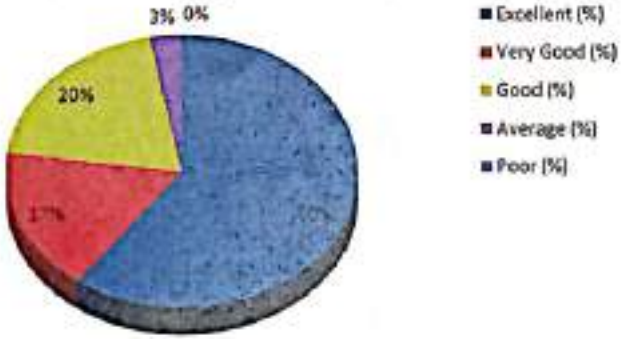



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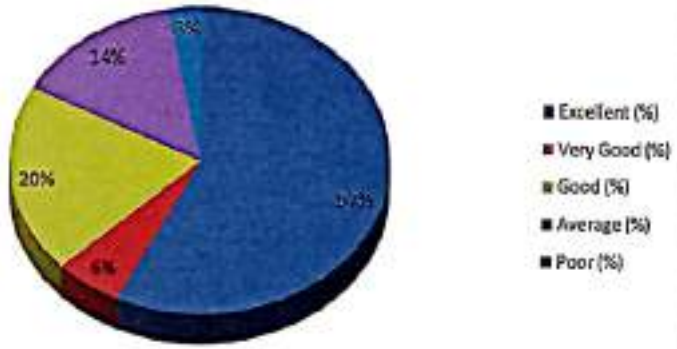
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# Analysis of Stakeholders Feedback Report

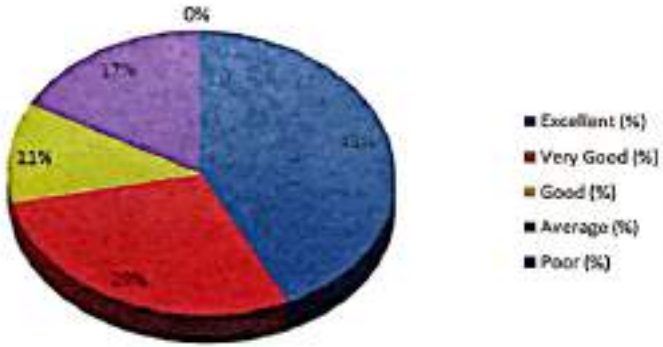
**Q.1 Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.)**



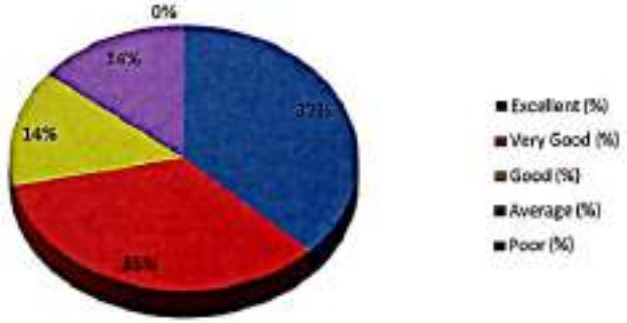

**Q.2 The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application.**




**Q.3 Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering.**

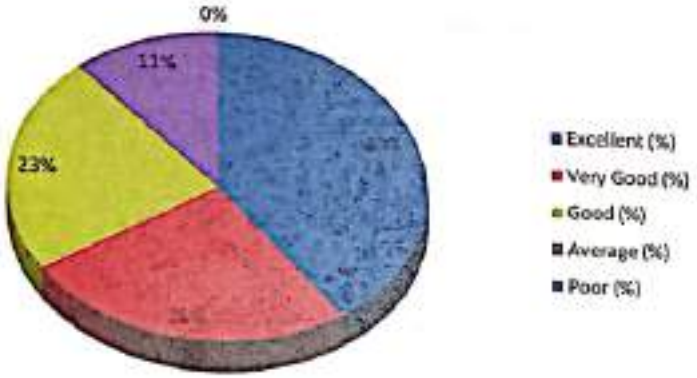



**Q.4 The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations.**

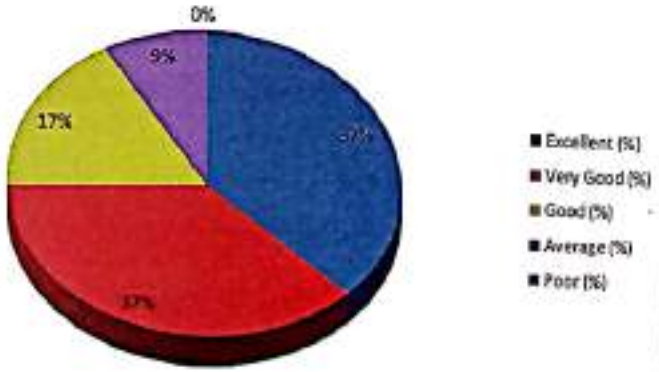



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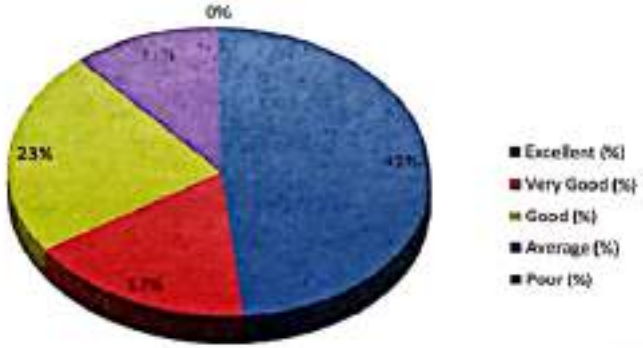
**Q.5 Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable.**



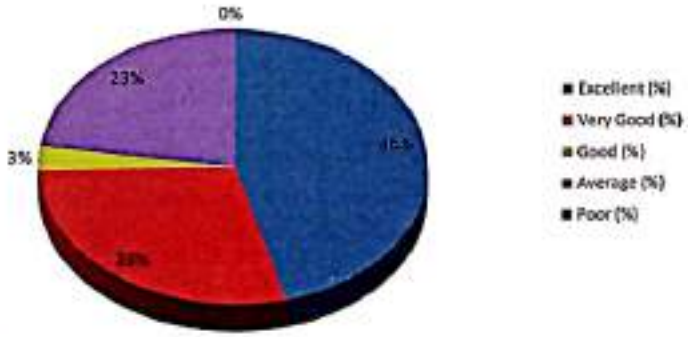

**Q.6 The books prescribed/listed as reference materials are relevant, updated and appropriate.**




**Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.**




**Q.8 The course enabled to build your future career.**




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## D. Analysis of Employers Feedback on the Syllabus and its Transaction at the Institution

### Academic Year: 2018-2019

**Total Responses = 4**

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | Current Curriculum of all Programmes is relevant for employability. | 0.0 | 0.0 | 75.0 | 25.0 | 0.0 |
| 2. | Curriculum bridges the gap between Industry and Academic. | 0.0 | 75.0 | 0.0 | 25.0 | 0.0 |
| 3. | Current curriculum offers need based and meets to the expectations of industry. | 0.0 | 0.0 | 75.0 | 25.0 | 0.0 |
| 4. | Curriculum has enriched content which fulfils required orientation human resources. | 0.0 | 25.0 | 50.0 | 25.0 | 0.0 |
| 5 | Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation. | 0.0 | 50.0 | 50.0 | 0.0 | 0.0 |
| 6 | Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization. | 0.0 | 0.0 | 50.0 | 50.0 | 0.0 |
| 7 | Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise. | 0.0 | 0.0 | 50.0 | 50.0 | 0.0 |
| 8 | Curriculum helps in edifice ability and motivation to the students for involvement in social activities. | 0.0 | 75.0 | 0.0 | 25.0 | 0.0 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 9 | Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team. | 0.0 | 0.0 | 50.0 | 50.0 | 0.0 |
| 10 | Curriculum show signs of independent thinking of students and appreciation of ethical values in their career. | 0.0 | 25.0 | 75.0 | 0.0 | 0.0 |

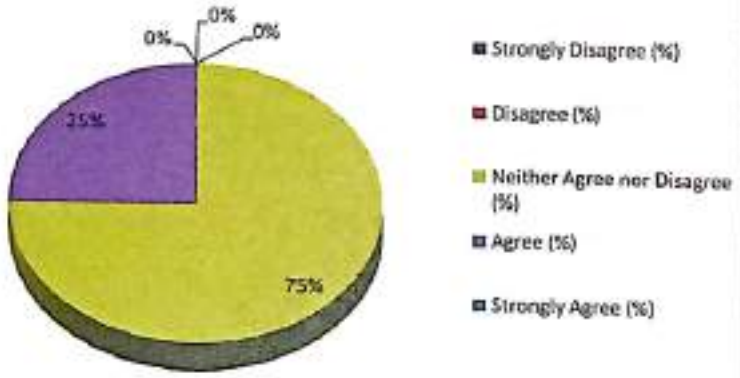


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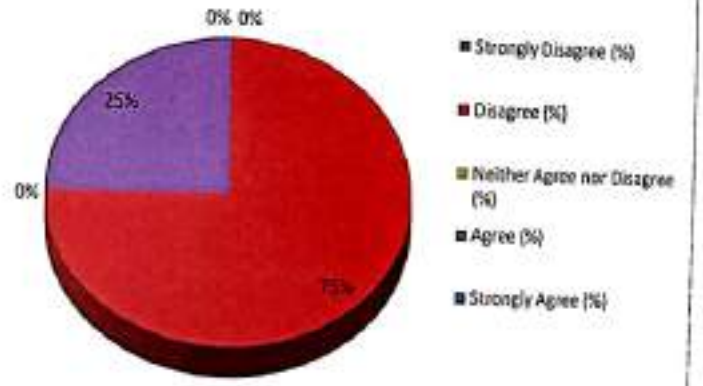
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# Analysis of Stakeholders Feedback Report

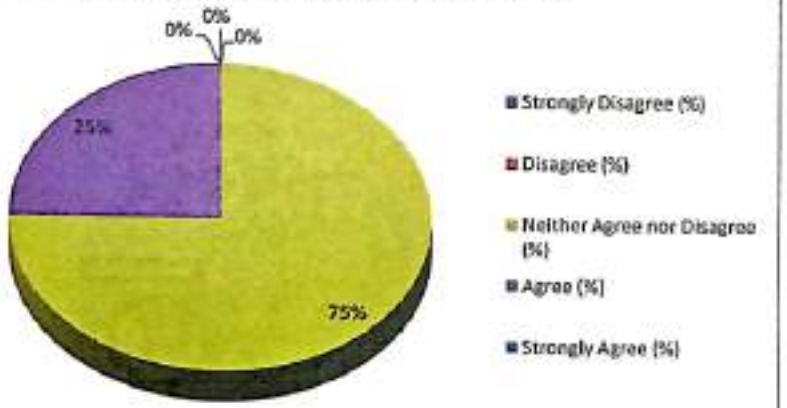
**Q.1 Current Curriculum of all Programmes is relevant for employability.**



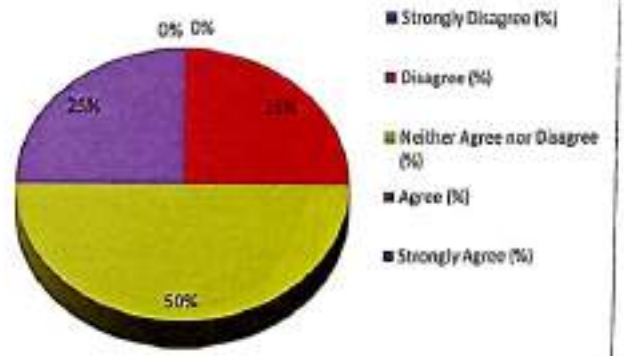

**Q.2 Curriculum bridges the gap between Industry and Academic.**




**Q.3 Current curriculum offers need based and meets to the expectations of industry.**



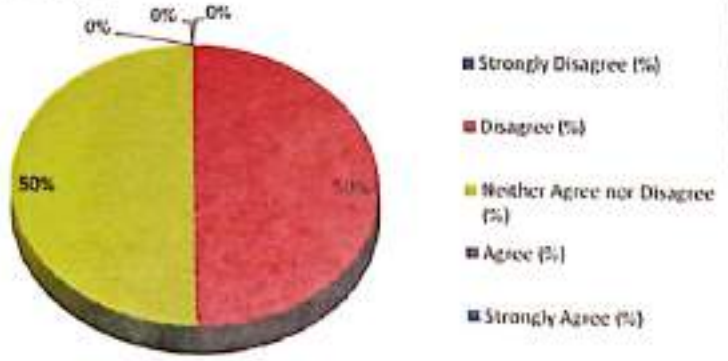

**Q.4 Curriculum has enriched content which fulfils required orientation human resources**



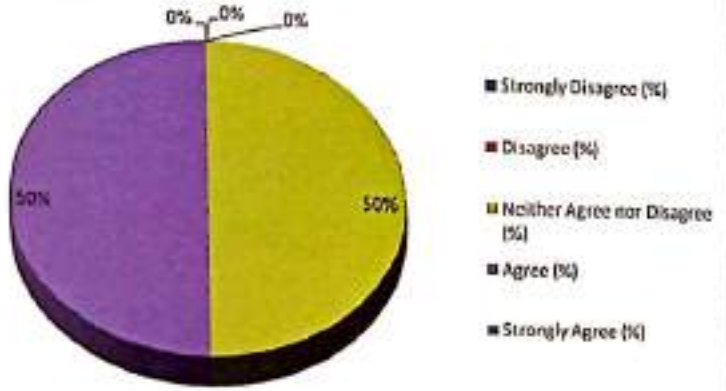

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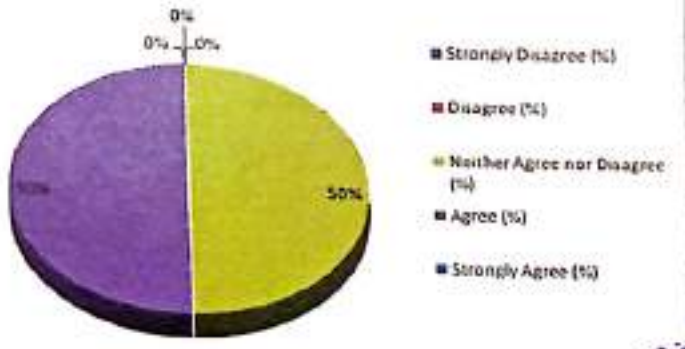
**Q.5 Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation.**



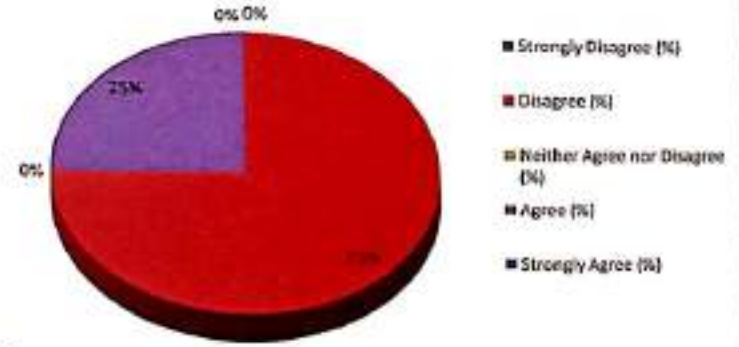

**Q.6 Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization.**




**Q.7 Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise.**




**Q.8 Curriculum helps in edifice ability and motivation to the students for involvement in social activities.**

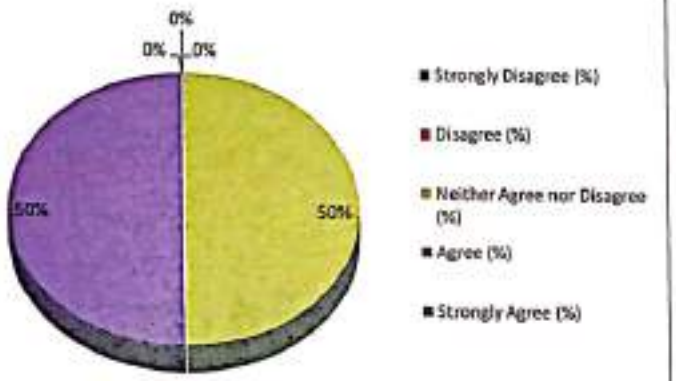



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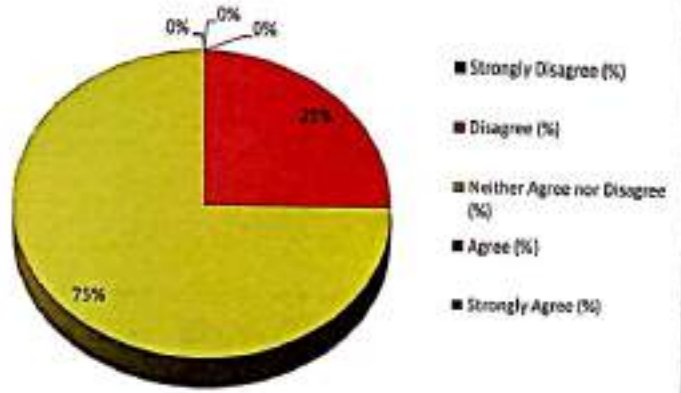
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# Analysis of Stakeholders Feedback Report

**Q.9 Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team.**




**Q.10 Curriculum show signs of independent thinking of students and appreciation of ethical values in their career.**




COLLEGE OF ENGINEERING PANDHARPUR

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# SVERI's College of Engineering, Pandharpur

## Department of Civil Engineering

## Analysis of Feedback Report

**Academic Year: 2019-2020**

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# Analysis of Stakeholders Feedback Report

## A. Analysis of Students' Feedback Report:

**Total Responses =76**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 38 | 54 | 8 | 0 | 0 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 29 | 51 | 21 | 0 | 0 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 36 | 49 | 13 | 2 | 0 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 33 | 45 | 21 | 2 | 0 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 30 | 43 | 21 | 5 | 1 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 33 | 23 | 23 | 21 | 0 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 30 | 40 | 19 | 11 | 0 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 34 | 42 | 16 | 8 | 0 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 27 | 31 | 15 | 27 | 0 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 30 | 48 | 20 | 2 | 0 |

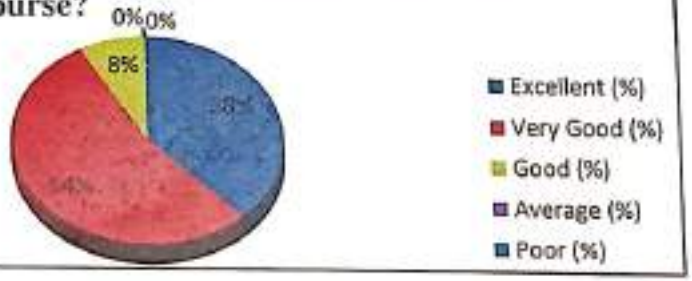
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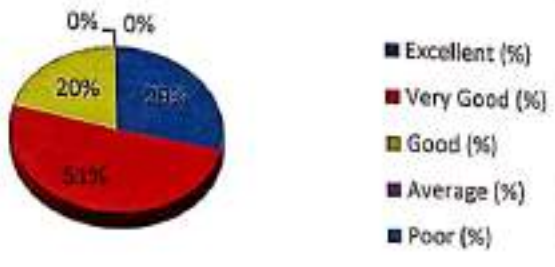
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# Analysis of Stakeholders Feedback Report

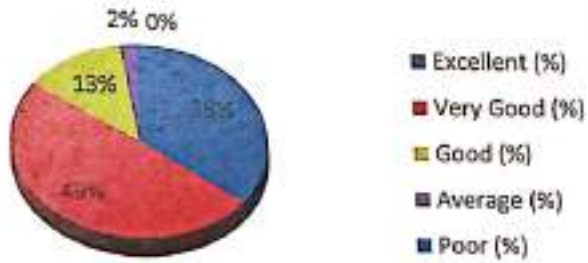
**Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?**



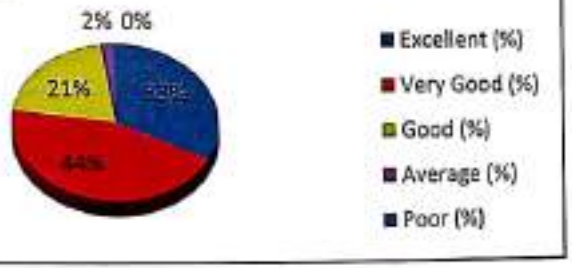

**Q.2 How do you rate the relevance of the units in syllabus significant to the course?**




**Q.3 How do you rate the electives offered in relation to the technological advancements?**




**Q.4 Rate the courses in terms of extra learning or self learning considering the design of the courses?**




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# Analysis of Stakeholders Feedback Report

**Q.5 Rate the theoretical concepts of syllabus supported by Practical/Experiments?**




**Q.6 Rate the contents included in the syllabus with reference to professional and higher level learning skills?**




**Q.7 How do you rate the evaluation scheme designed for each of the course?**




**Q.8 How do you rate the sequence of the courses in the curriculum?**




**Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning?**




**Q.10 How do you rate the books listed as referencematerials are relevant, updated and appropriate?**




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## B. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =16**

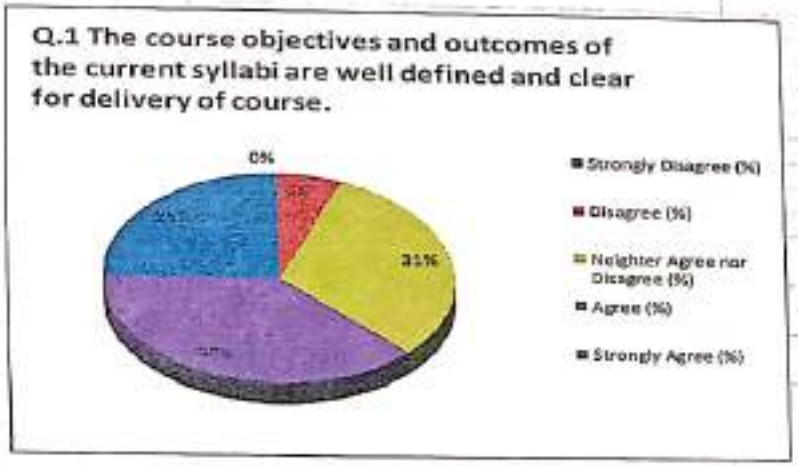
| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 0 | 6 | 31 | 38 | 25 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0 | 19 | 56 | 19 | 6 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 0 | 6 | 13 | 38 | 44 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0 | 6 | 19 | 69 | 6 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 0 | 6 | 13 | 38 | 44 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 6 | 6 | 13 | 44 | 31 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 0 | 19 | 50 | 25 | 6 |
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0 | 25 | 50 | 13 | 13 |

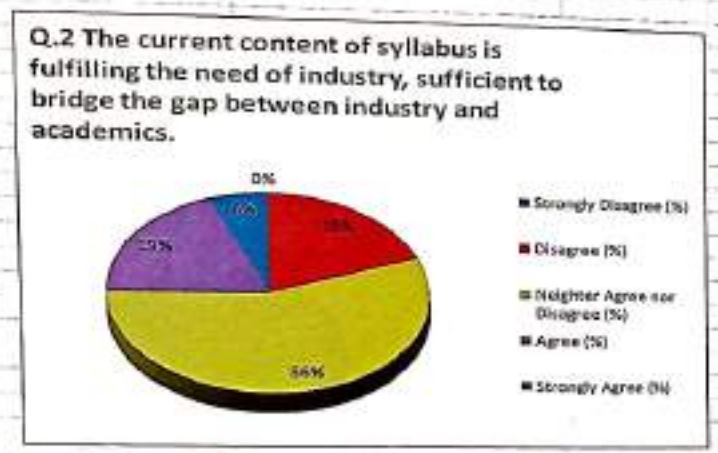
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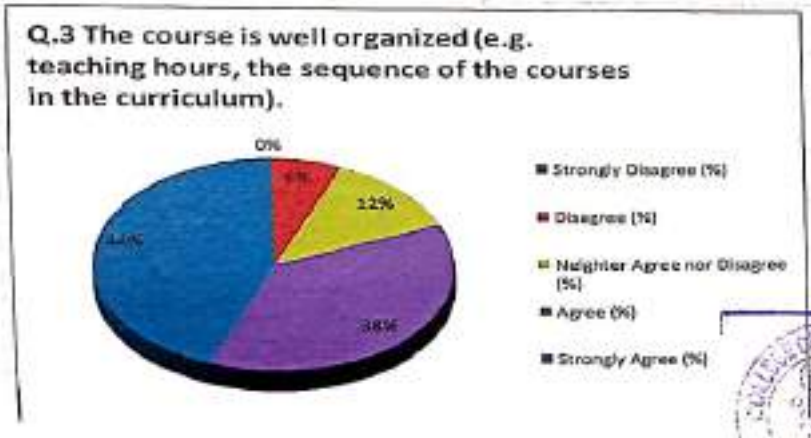
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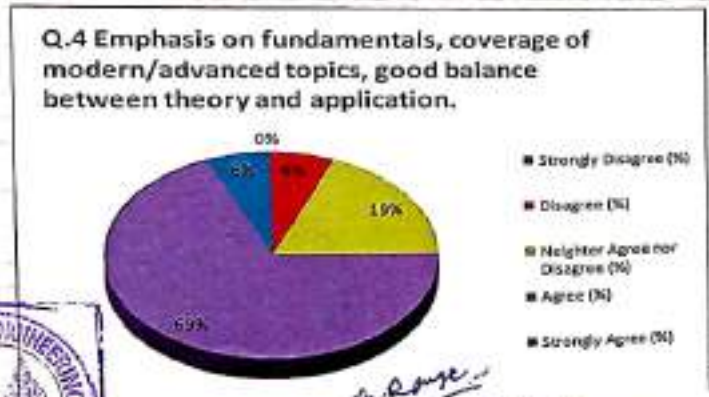
# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 6 | 6 | 6 | 31 | 50 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 0 | 6 | 19 | 31 | 44 |



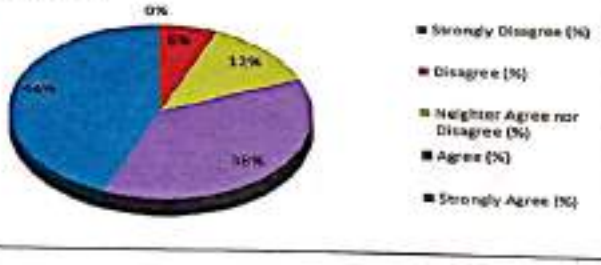




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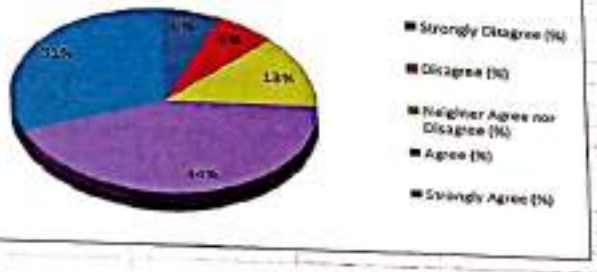
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# Analysis of Stakeholders Feedback Report

**Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.**




**Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.**



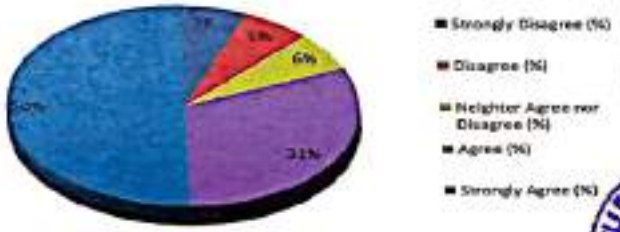

**Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.**



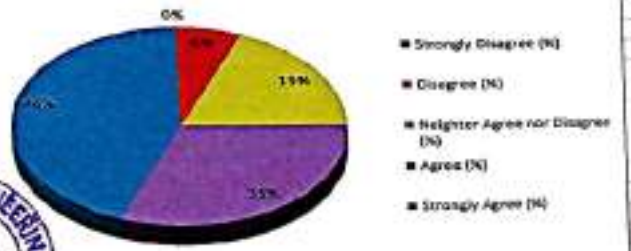

**Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.**




**Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.**




**Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.**




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## C. Analysis of Alumni Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =11**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.) | 60 | 40 | 0 | 0 | 0 |
| 2. | The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application. | 40 | 40 | 10 | 10 | 0 |
| 3. | Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering. | 30 | 30 | 10 | 20 | 10 |
| 4. | The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations. | 30 | 30 | 20 | 20 | 0 |
| 5. | Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable. | 30 | 30 | 20 | 20 | 0 |
| 6. | The books prescribed/listed as reference materials are relevant, updated and appropriate. | 40 | 50 | 10 | 0 | 0 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 20 | 30 | 30 | 20 | 0 |
| 8. | The course enabled to build your future career. | 40 | 40 | 10 | 10 | 0 |

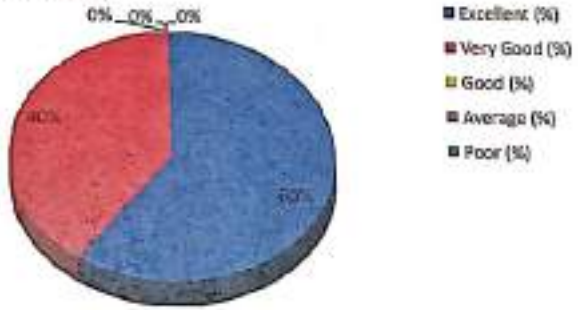
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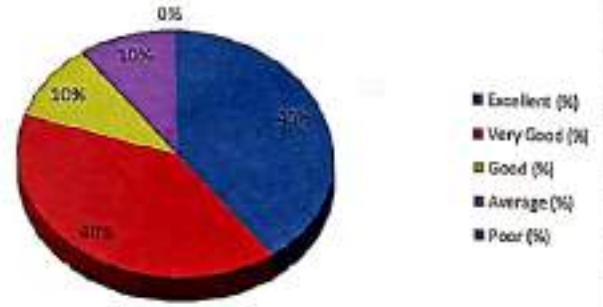
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# Analysis of Stakeholders Feedback Report

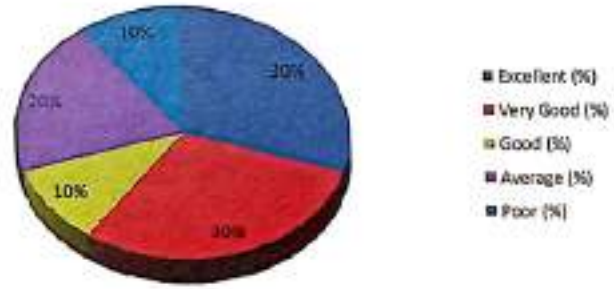
Q.1 Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.)



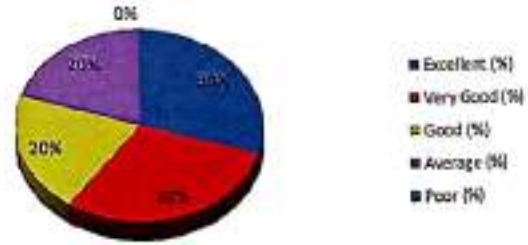

Q.2 The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application.




Q.3 Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering.




Q.4 The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations.

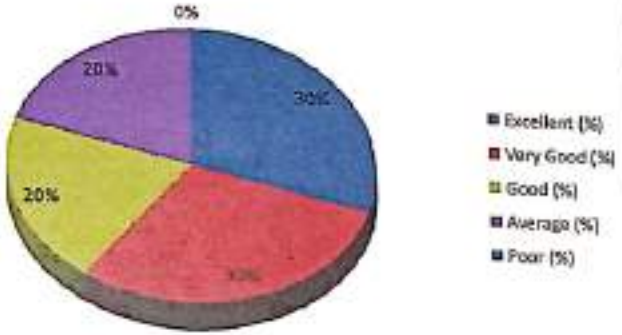



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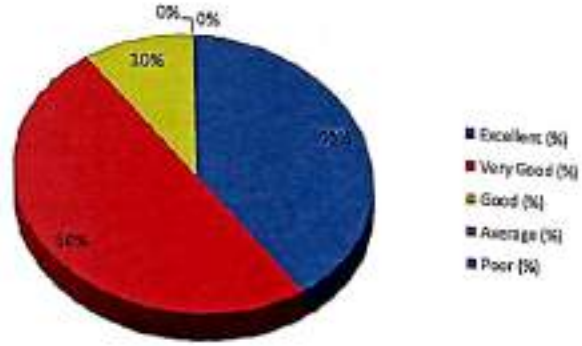
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# Analysis of Stakeholders Feedback Report

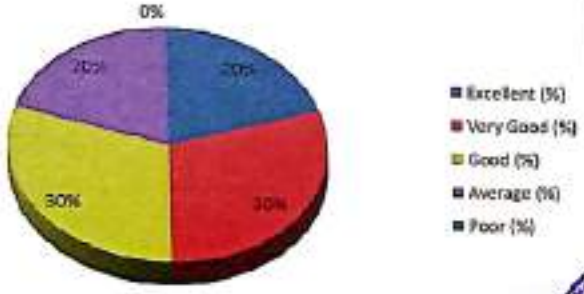
**Q.5 Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable.**



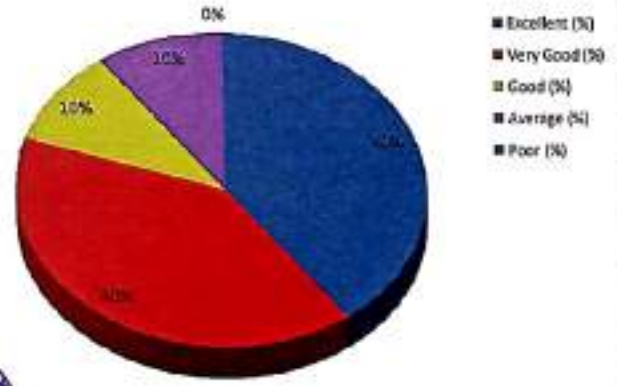

**Q.6 The books prescribed/listed as reference materials are relevant, updated and appropriate.**




**Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.**




**Q.8 The course enabled to build your future career.**




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## D. Analysis of Employers Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =05**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Current Curriculum of all Programmes is relevant for employability. | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 |
| 2. | Curriculum bridges the gap between Industry and Academic. | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 |
| 3. | Current curriculum offers need based and meets to the expectations of industry. | 0.0 | 0.0 | 20.0 | 60.0 | 20.0 |
| 4. | Curriculum has enriched content which fulfils required orientation human resources. | 0.0 | 0.0 | 0.0 | 60.0 | 40.0 |
| 5. | Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation. | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 |
| 6. | Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization. | 0.0 | 0.0 | 0.0 | 80.0 | 20.0 |
| 7. | Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise. | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 8. | Curriculum helps in edifice ability and motivation to the students for involvement in social activities. | 0.0 | 0.0 | 40.0 | 60.0 | 0.0 |
| 9 | Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team. | 0.0 | 0.0 | 20.0 | 80.0 | 0.0 |
| 10 | Curriculum show signs of independent thinking of students and appreciation of ethical values in their career. | 0.0 | 0.0 | 40.0 | 60.0 | 0.0 |

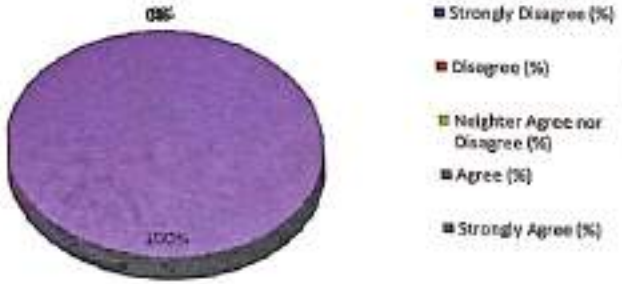



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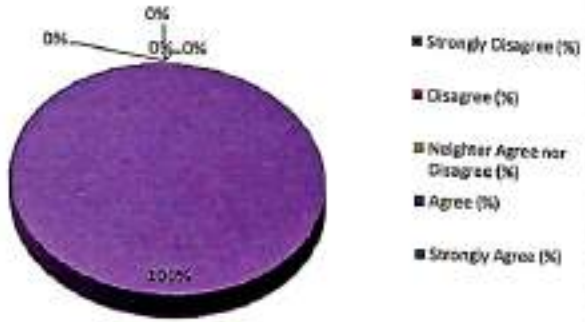
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# Analysis of Stakeholders Feedback Report

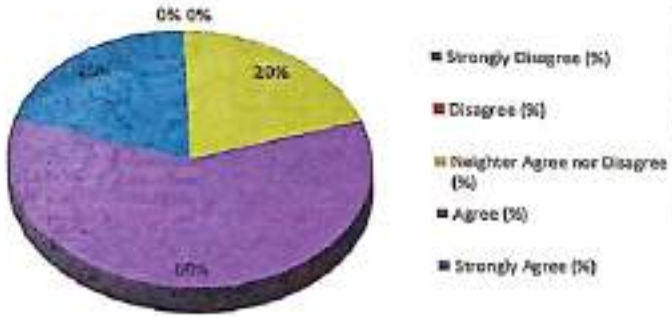
**Q.1 Current Curriculum of all Programmes is relevant for employability.**



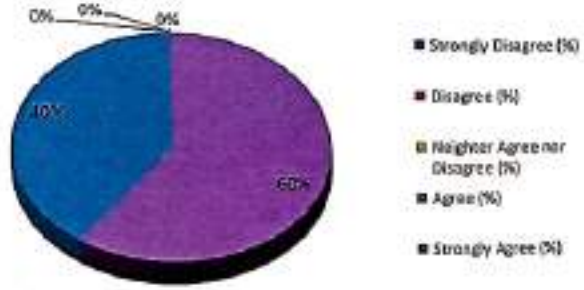

**Q.2 Curriculum bridges the gap between Industry and Academic.**




**Q.3 Current curriculum offers need based and meets to the expectations of industry.**




**Q.4 Curriculum has enriched content which fulfils required orientation human resources.**




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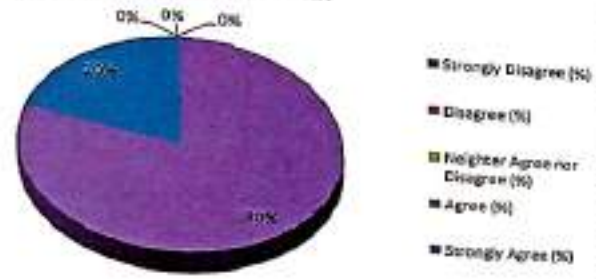
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# Analysis of Stakeholders Feedback Report

**Q.5 Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation.**



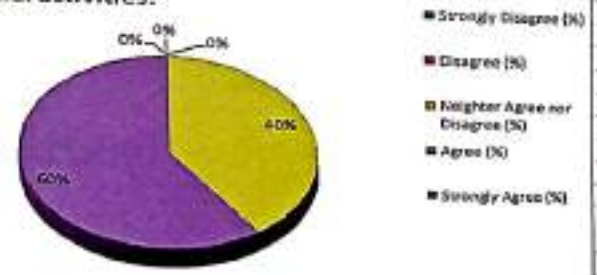

**Q.6 Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization..**



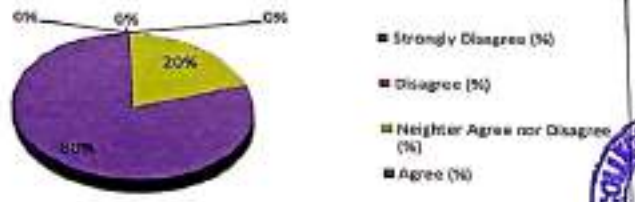

**Q.7 Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise.**



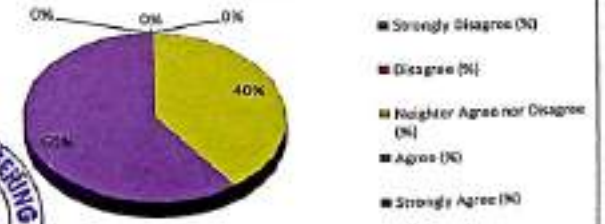

**Q.8 Curriculum helps in edifice ability and motivation to the students for involvement in social activities.**




**Q.9 Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team.**




**Q.10 Curriculum show signs of independent thinking of students and appreciation of ethical values in their career.**




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# SVERI's College of Engineering, Pandharpur

## Department of Civil Engineering

## Analysis of Feedback Report

**Academic Year: 2018-2019**

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## A. Analysis of Students' Feedback Report:

**Total Responses =146**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 38 | 54 | 8 | 0 | 0 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 29 | 51 | 21 | 0 | 0 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 36 | 39 | 13 | 12 | 0 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 33 | 35 | 16 | 16 | 0 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 30 | 40 | 21 | 8 | 1 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 33 | 23 | 24 | 20 | 0 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 30 | 40 | 18 | 12 | 0 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 34 | 42 | 16 | 8 | 0 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 27 | 31 | 19 | 23 | 0 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 30 | 48 | 20 | 2 | 0 |

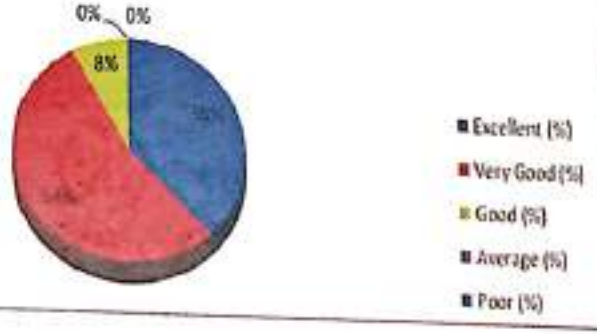
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B. Rage
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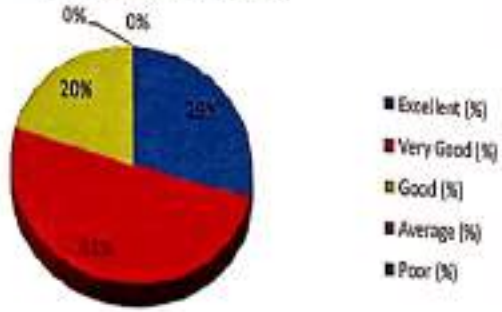
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# Analysis of Stakeholders Feedback Report

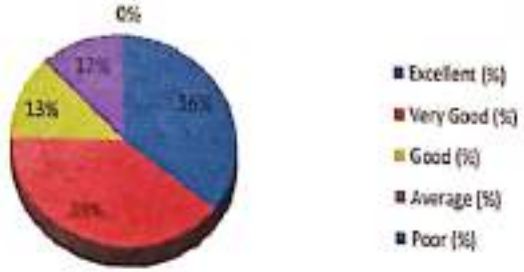
Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?



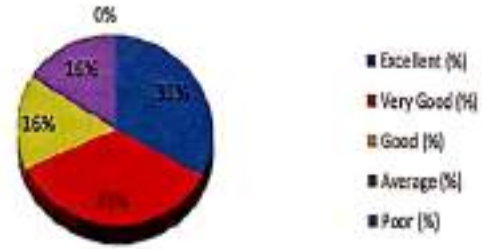

Q.2 How do you rate the relevance of the units in syllabus significant to the course?




Q.3 How do you rate the electives offered in relation to the technological advancements?




Q.4 Rate the courses in terms of extra learning or self learning considering the design of the courses?




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Q.5 Rate the theoretical concepts of syllabus supported by Practical/Experiments?



Q.6 Rate the contents included in the syllabus with reference to professional and higher level learning skills?



Q.7 How do you rate the evaluation scheme designed for each of the course?



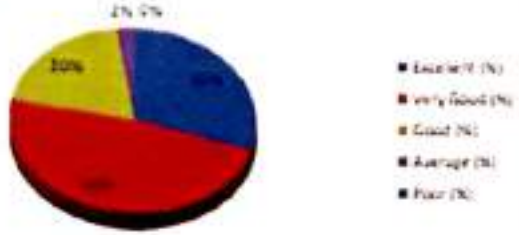
Q.8 How do you rate the sequence of the courses in the curriculum?



Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning?



Q.10 How do you rate the books listed as reference materials are relevant, updated and appropriate?



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## B. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =20**

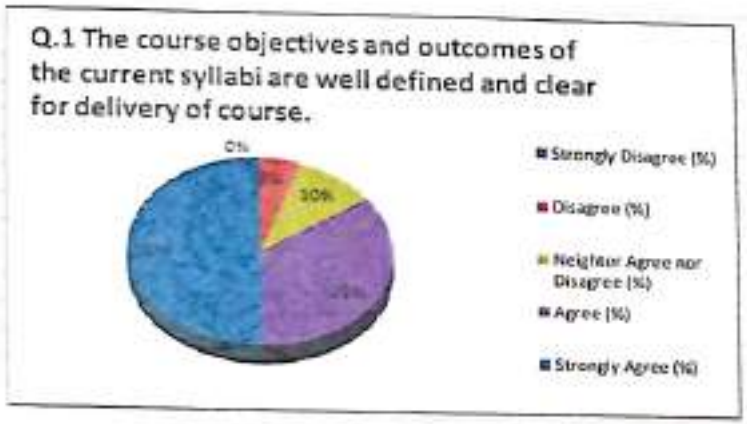
| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 0 | 5 | 10 | 35 | 50 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0 | 20 | 30 | 30 | 20 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 0 | 10 | 15 | 20 | 55 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0 | 0 | 15 | 65 | 20 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 0 | 5 | 15 | 25 | 55 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 0 | 15 | 10 | 60 | 15 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 0 | 20 | 20 | 40 | 20 |
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0 | 25 | 20 | 40 | 15 |

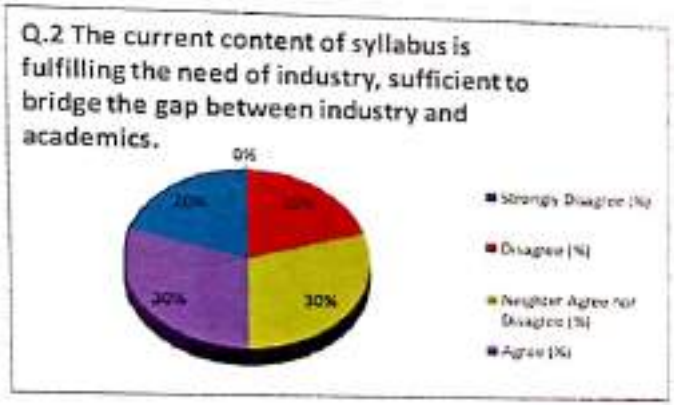
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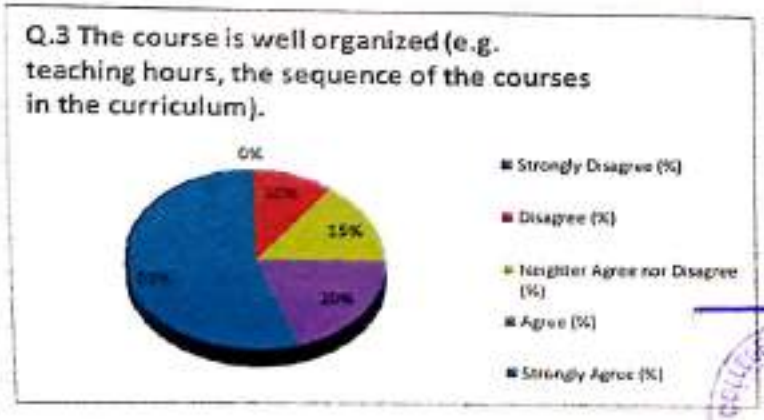
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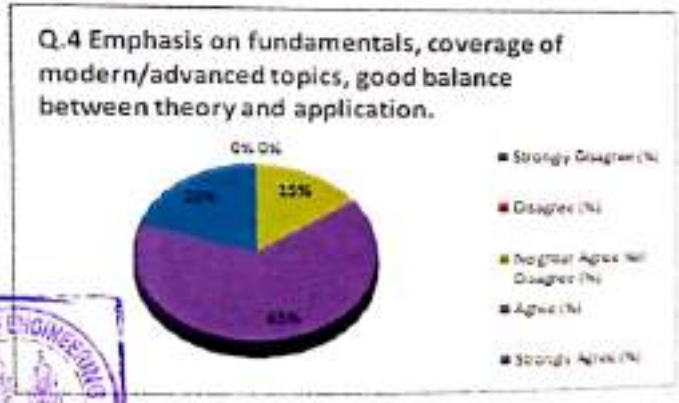
# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 0 | 0 | 10 | 50 | 40 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 0 | 10 | 25 | 35 | 30 |



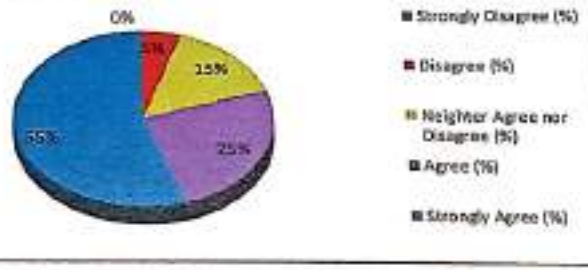




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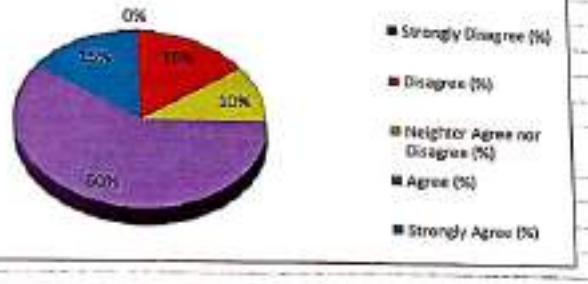
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# Analysis of Stakeholders Feedback Report

**Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.**




**Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.**



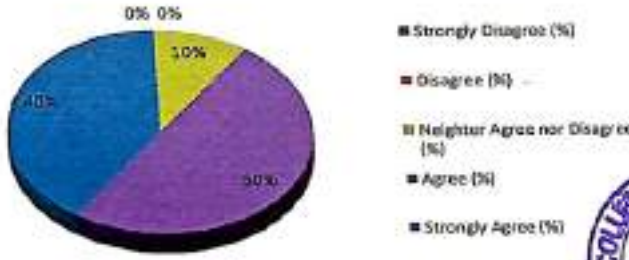

**Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.**



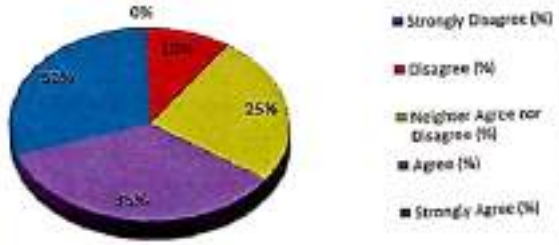

**Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.**




**Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.**




**Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.**




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## C. Analysis of Alumni Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =10**

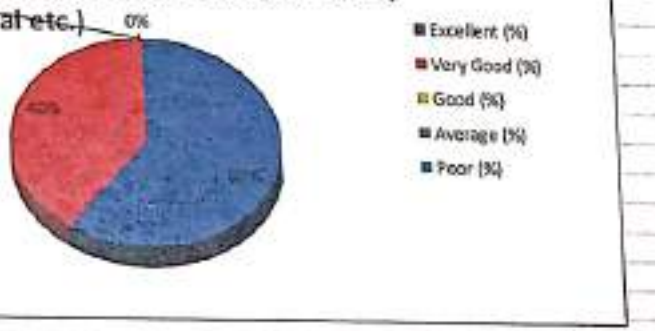
| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.) | 60 | 40 | 0 | 0 | 0 |
| 2. | The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application. | 40 | 50 | 10 | 0 | 0 |
| 3. | Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering. | 30 | 30 | 10 | 20 | 10 |
| 4. | The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations. | 40 | 30 | 20 | 10 | 0 |
| 5. | Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable. | 30 | 40 | 20 | 10 | 0 |
| 6. | The books prescribed/listed as reference materials are relevant, updated and appropriate. | 50 | 50 | 0 | 0 | 0 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 20 | 40 | 30 | 10 | 0 |
| 8. | The course enabled to build your future career. | 40 | 40 | 10 | 10 | 0 |

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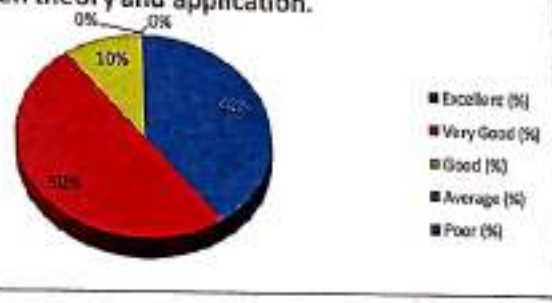
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# Analysis of Stakeholders Feedback Report

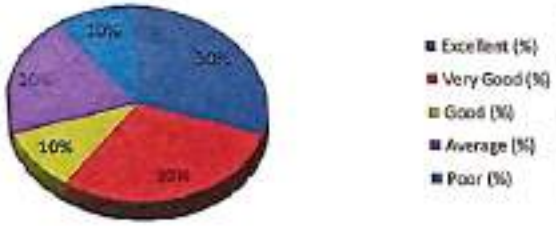
Q.1 Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.)




Q.2 The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application.




Q.3 Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering.




Q.4 The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations.

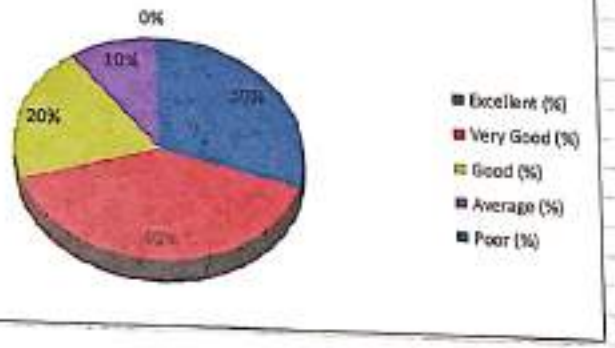



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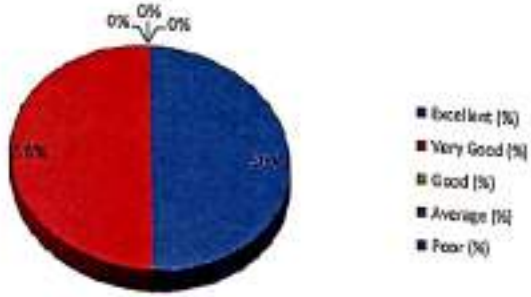
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# Analysis of Stakeholders Feedback Report

Q.5 Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable.



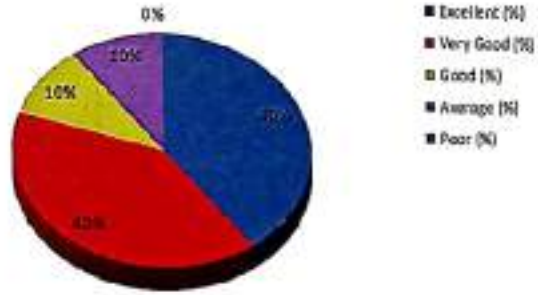

Q.6 The books prescribed/listed as reference materials are relevant, updated and appropriate.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.




Q.8 The course enabled to build your future career.




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## D. Analysis of Employers Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =05**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Current Curriculum of all Programmes is relevant for employability. | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 |
| 2. | Curriculum bridges the gap between Industry and Academic. | 0.0 | 0.0 | 20.0 | 80.0 | 0.0 |
| 3. | Current curriculum offers need based and meets to the expectations of industry. | 0.0 | 0.0 | 0.0 | 100.0 | 0.0 |
| 4. | Curriculum has enriched content which fulfils required orientation human resources. | 0.0 | 0.0 | 40.0 | 60.0 | 0.0 |
| 5. | Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation. | 0.0 | 0.0 | 80.0 | 20.0 | 0.0 |
| 6. | Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization. | 0.0 | 0.0 | 80.0 | 20.0 | 0.0 |
| 7. | Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise. | 0.0 | 20.0 | 40.0 | 20.0 | 0.0 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 8. | Curriculum helps in edifice ability and motivation to the students for involvement in social activities. | 0.0 | 20.0 | 80.0 | 0.0 | 0.0 |
| 9 | Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team. | 0.0 | 40.0 | 60.0 | 0.0 | 0.0 |
| 10 | Curriculum show signs of independent thinking of students and appreciation of ethical values in their career. | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 |

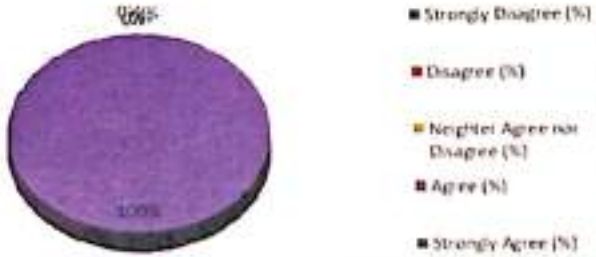



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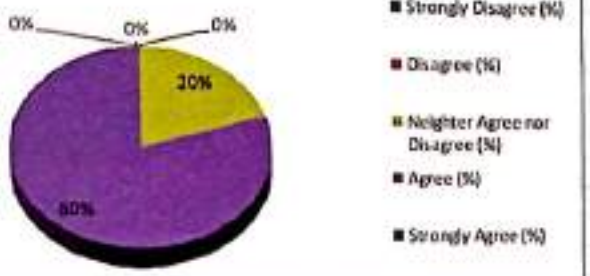
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# Analysis of Stakeholders Feedback Report

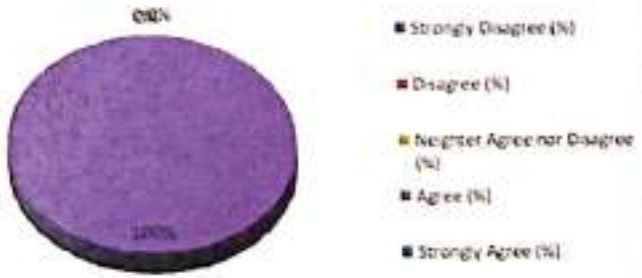
**Q.1 Current Curriculum of all Programmes is relevant for employability.**



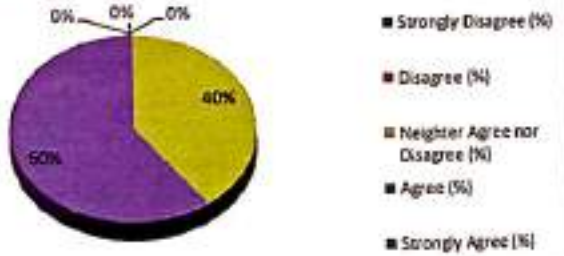

**Q.2 Curriculum bridges the gap between Industry and Academic.**




**Q.3 Current curriculum offers need based and meets to the expectations of industry.**




**Q.4 Curriculum has enriched content which fulfils required orientation human resources.**

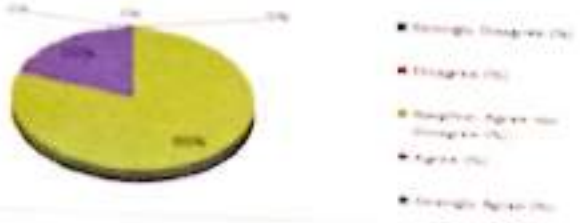



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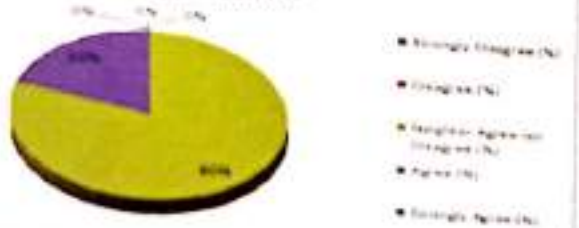
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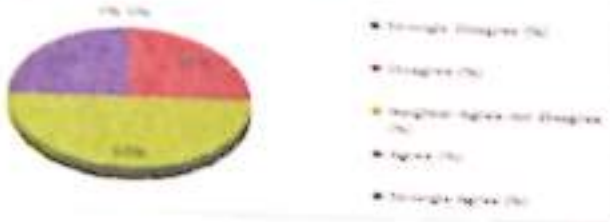
Q 5 Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation



Q 6 Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization



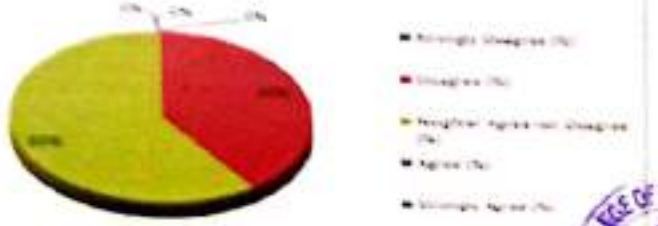
Q 7 Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise



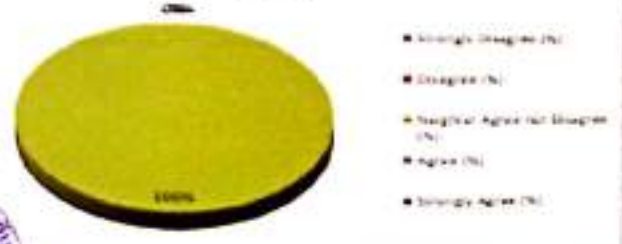
Q 8 Curriculum helps in edifice ability and motivation to the students for involvement in social activities



Q 9 Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team



Q 10 Curriculum show signs of independent thinking of students and appreciation of ethical values in their career.



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# SVERI's College of Engineering, Pandharpur

## Department of Electronics & Tele-Communication Engineering

## Analysis of Feedback Report

Academic Year: 2019-2020

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## A. Analysis of Students' Feedback Report:

**Total Responses =119**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 74.8 | 16.0 | 9.2 | 0.0 | 0.0 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 50.4 | 40.3 | 6.7 | 2.5 | 0.0 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 44.5 | 37.8 | 10.1 | 4.2 | 3.4 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 43.7 | 33.6 | 15.1 | 2.5 | 5.0 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 50.4 | 31.1 | 15.1 | 3.4 | 0.0 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 48.7 | 40.3 | 10.9 | 0.0 | 0.0 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 53.8 | 29.4 | 16.8 | 0.0 | 0.0 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 40.3 | 35.3 | 10.9 | 7.6 | 5.9 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 40.3 | 31.1 | 16.0 | 2.5 | 10.1 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 52.9 | 37.8 | 9.2 | 0.0 | 0.0 |

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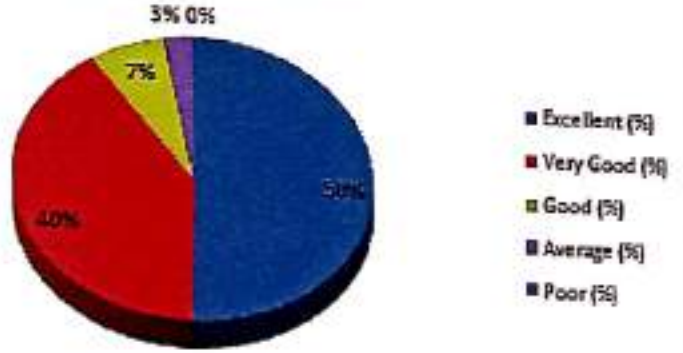
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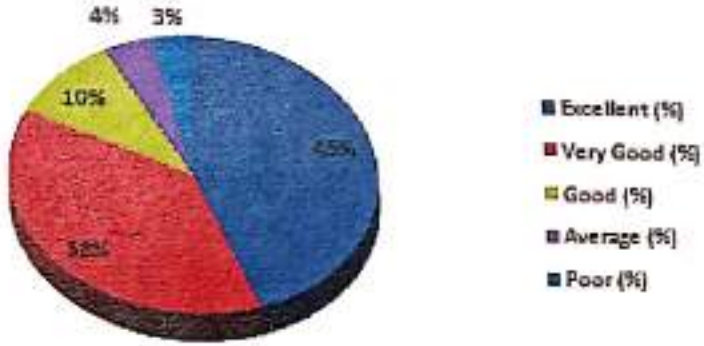
Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?




Q.2 How do you rate the relevance of the units in syllabus significant to the course?




Q.3 How do you rate the electives offered in relation to the technological advancements?



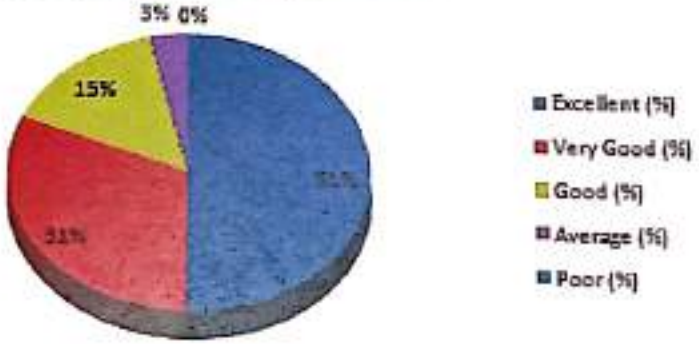

Q.4 Rate the courses in terms of extra learning or self learning considering the design of the courses?



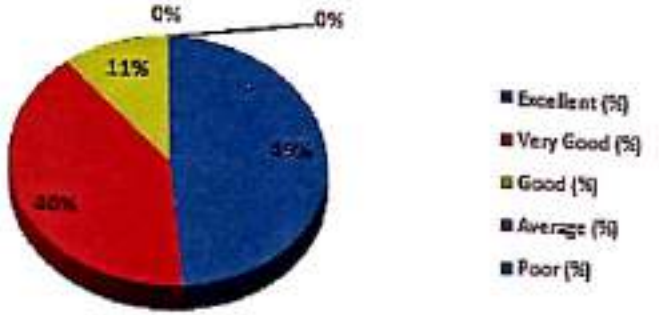

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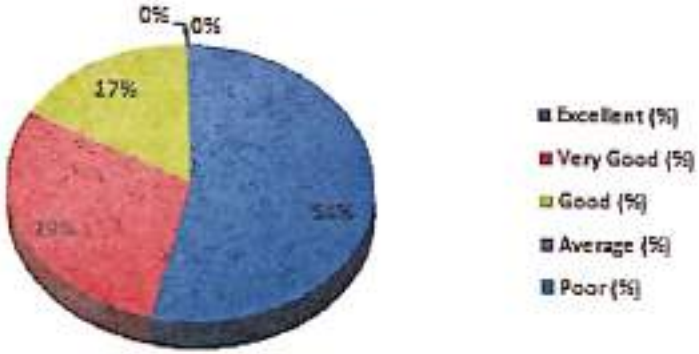
**Q.5 Rate the theoretical concepts of syllabus supported by Practical/Experiments?**



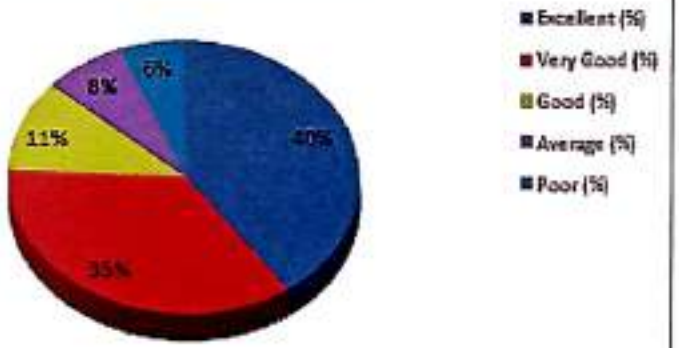

**Q.6 Rate the contents included in the syllabus with reference to professional and higher level learning skills?**




**Q.7 How do you rate the evaluation scheme designed for each of the course?**




**Q.8 How do you rate the sequence of the courses in the curriculum?**



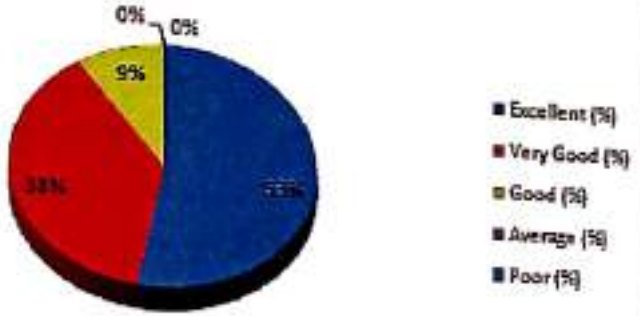

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**Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability /higher learning?**




**Q.10 How do you rate the books listed as referencematerials are relevant, updated and appropriate?**




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## B. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

Total Responses =24

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 8.3 | 0.0 | 16.7 | 29.2 | 45.8 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0.0 | 8.3 | 4.2 | 33.3 | 54.2 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 0.0 | 8.3 | 4.2 | 33.3 | 54.2 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0.0 | 12.5 | 4.2 | 41.7 | 41.7 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 0.0 | 4.2 | 4.2 | 50.0 | 41.7 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 20.8 | 8.3 | 8.3 | 45.8 | 16.7 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 12.5 | 8.3 | 12.5 | 50.0 | 16.7 |
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0.0 | 8.3 | 4.2 | 33.3 | 54.2 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 4.2 | 0.0 | 4.2 | 45.8 | 45.8 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 4.2 | 0.0 | 8.3 | 41.7 | 45.8 |

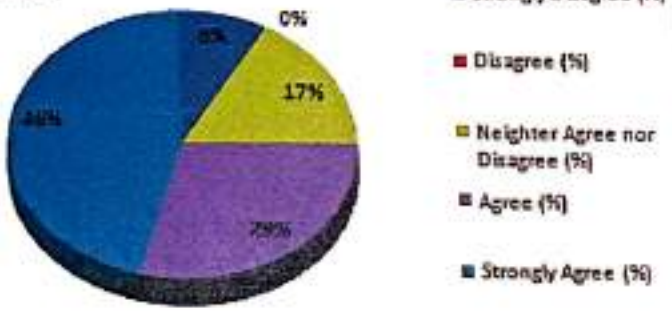


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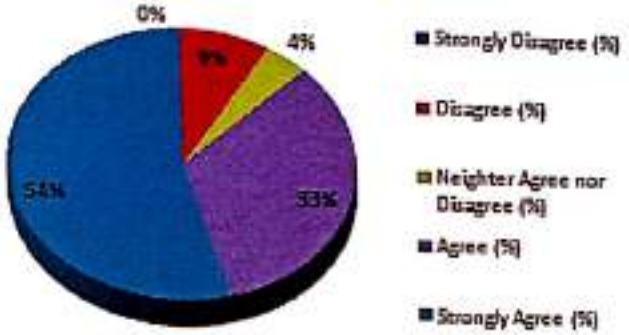
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# Analysis of Stakeholders Feedback Report

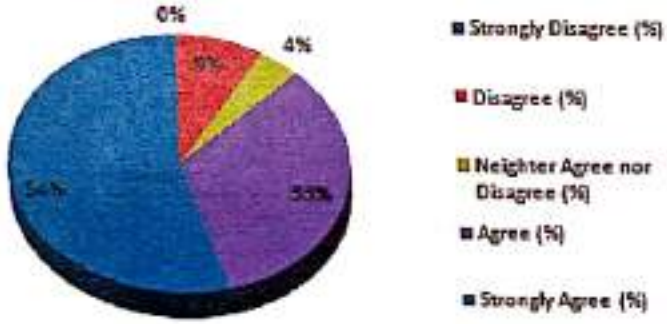
**Q.1 The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course.**



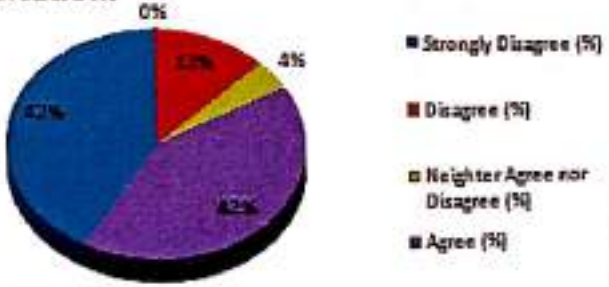

**Q.2 The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics.**




**Q.3 The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum).**



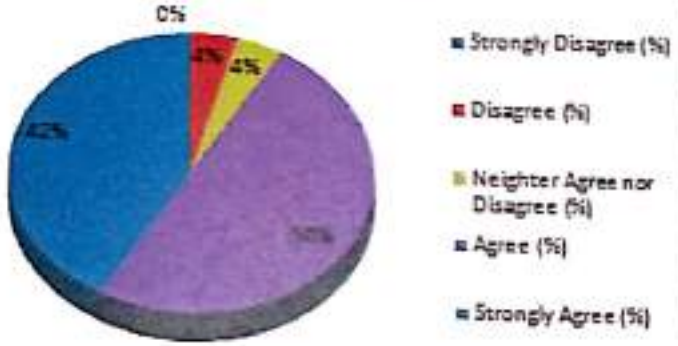

**Q.4 Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application.**



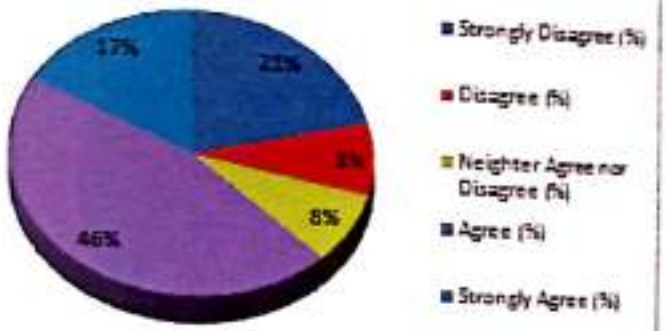

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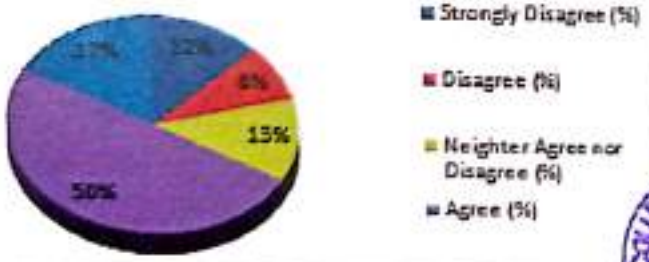
Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.



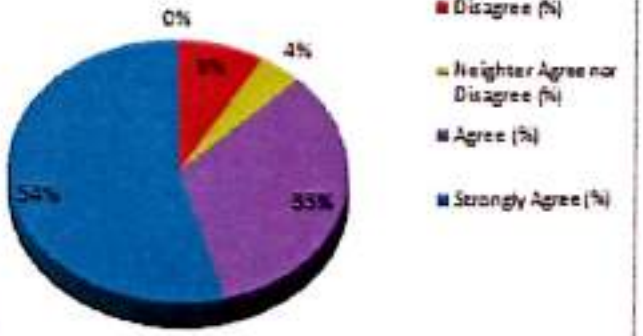

Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.



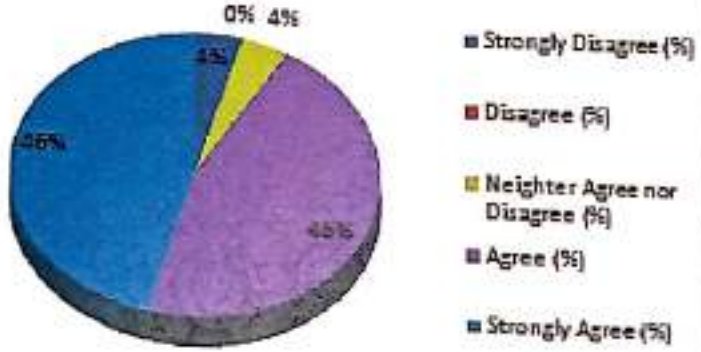

Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.



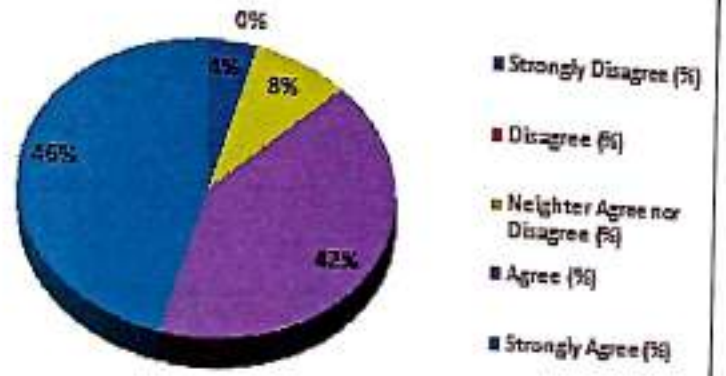

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Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.




Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.




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## C. Analysis of Alumni Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =11**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.) | 9.1 | 18.2 | 36.4 | 9.1 | 27.3 |
| 2. | The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application. | 0.0 | 9.1 | 27.3 | 45.5 | 18.2 |
| 3. | Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering. | 0.0 | 9.1 | 9.1 | 27.3 | 54.5 |
| 4. | The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations. | 0.0 | 9.1 | 45.5 | 27.3 | 18.2 |
| 5. | Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable. | 0.0 | 9.1 | 9.1 | 54.5 | 27.3 |
| 6. | The books prescribed/listed as reference materials are relevant, updated and appropriate. | 27.3 | 9.1 | 9.1 | 36.4 | 18.2 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 9.1 | 18.2 | 36.4 | 9.1 | 27.3 |
| 8. | The course enabled to build your future career. | 9.1 | 18.2 | 36.4 | 9.1 | 27.3 |

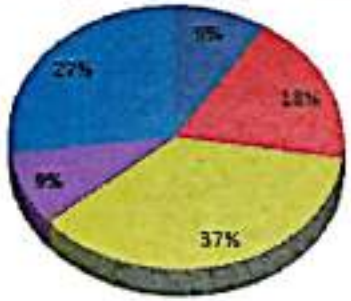
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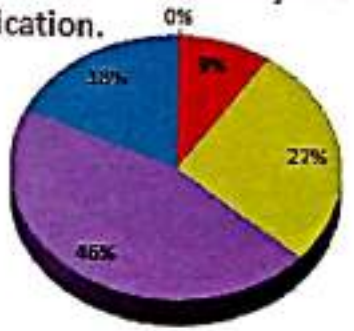
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# Analysis of Stakeholders Feedback Report

Q.1 Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.)



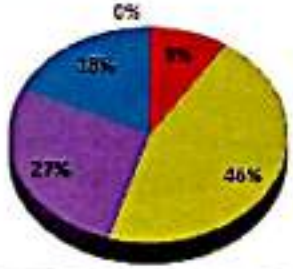

Q.2 The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application.




Q.3 Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering.




Q.4 The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life...

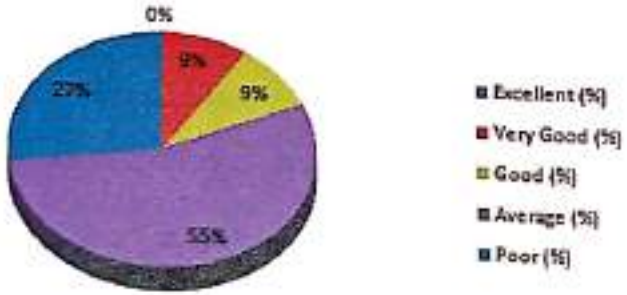



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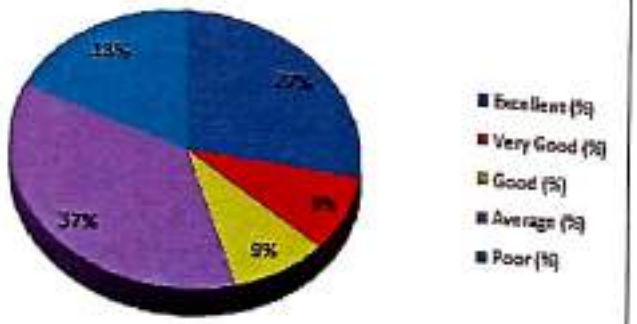
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# Analysis of Stakeholders Feedback Report

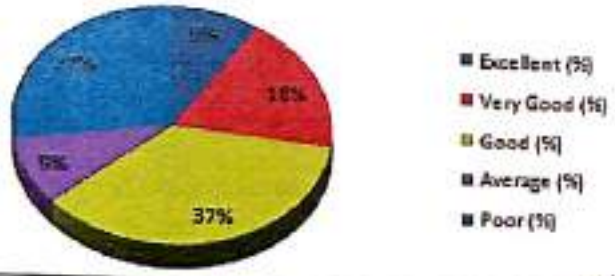
Q.5 Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable.



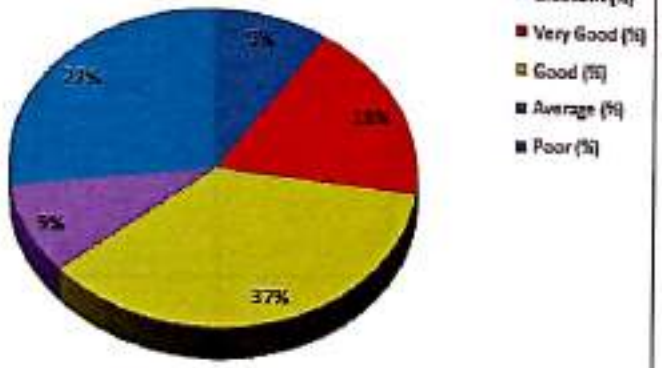

Q.6 The books prescribed/listed as reference materials are relevant, updated and appropriate.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.




Q.8 The course enabled to build your future career.




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## D. Analysis of Employers Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =05**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Current Curriculum of all Programmes is relevant for employability. | 0.0 | 25.0 | 75.0 | 0.0 | 0.0 |
| 2. | Curriculum bridges the gap between Industry and Academic. | 0.0 | 25.0 | 25.0 | 50.0 | 0.0 |
| 3. | Current curriculum offers need based and meets to the expectations of industry. | 0.0 | 50.0 | 25.0 | 25.0 | 0.0 |
| 4. | Curriculum has enriched content which fulfils required orientation human resources. | 0.0 | 0.0 | 75.0 | 25.0 | 0.0 |
| 5. | Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation. | 0.0 | 0.0 | 25.0 | 50.0 | 25.0 |
| 6. | Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization. | 0.0 | 25.0 | 75.0 | 0.0 | 0.0 |
| 7. | Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise. | 0.0 | 50.0 | 25.0 | 25.0 | 0.0 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 8. | Curriculum helps in edifice ability and motivation to the students for involvement in social activities. | 0.0 | 0.0 | 50.0 | 25.0 | 25.0 |
| 9 | Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team. | 0.0 | 25.0 | 50.0 | 25.0 | 0.0 |
| 10 | Curriculum show signs of independent thinking of students and appreciation of ethical values in their career. | 0.0 | 25.0 | 50.0 | 25.0 | 0.0 |

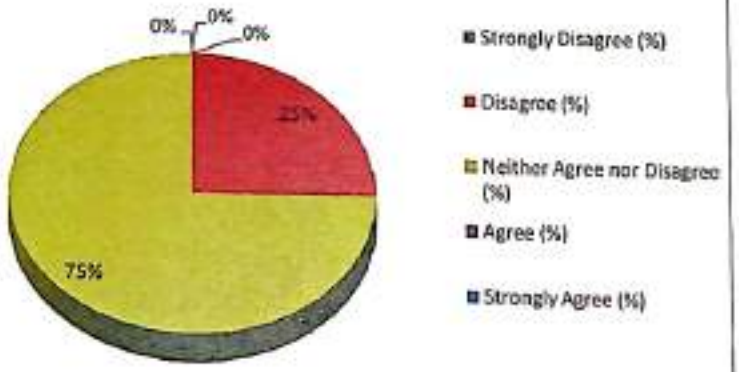
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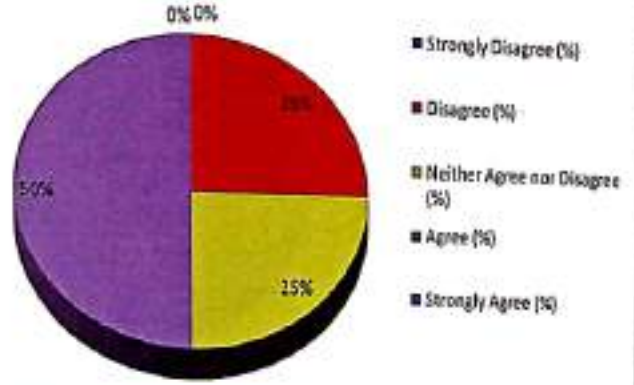
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# Analysis of Stakeholders Feedback Report

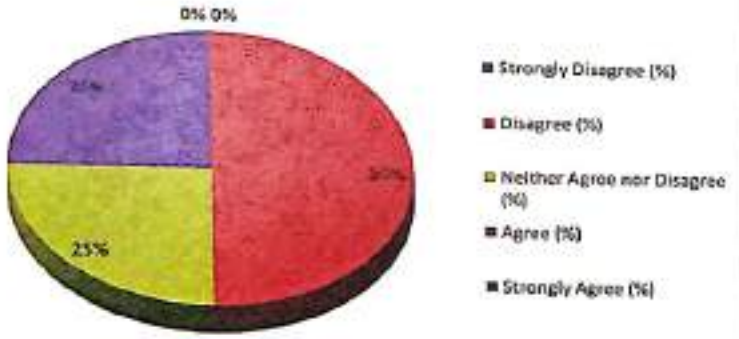
**Q.1 Current Curriculum of all Programmes is relevant for employability.**



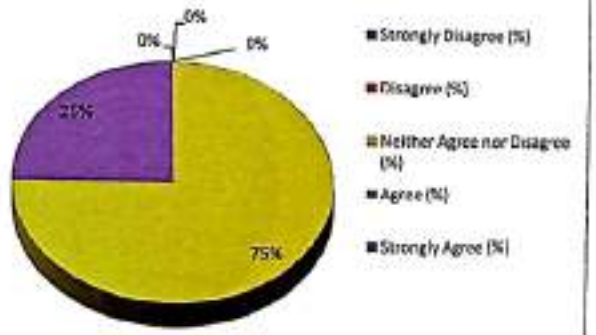

**Q.2 Curriculum bridges the gap between Industry and Academic.**




**Q.3 Current curriculum offers need based and meets to the expectations of industry.**



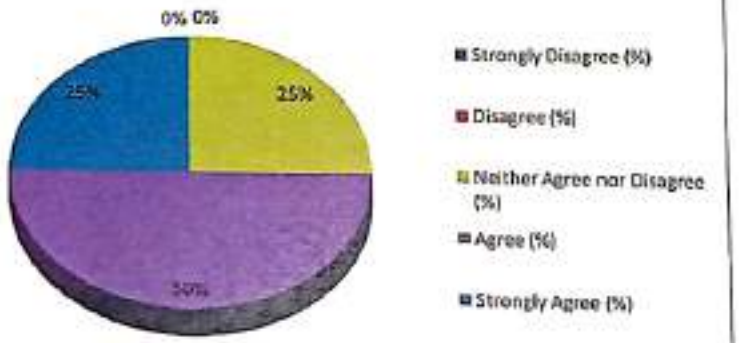

**Q.4 Curriculum has enriched content which fulfils required orientation human resources**



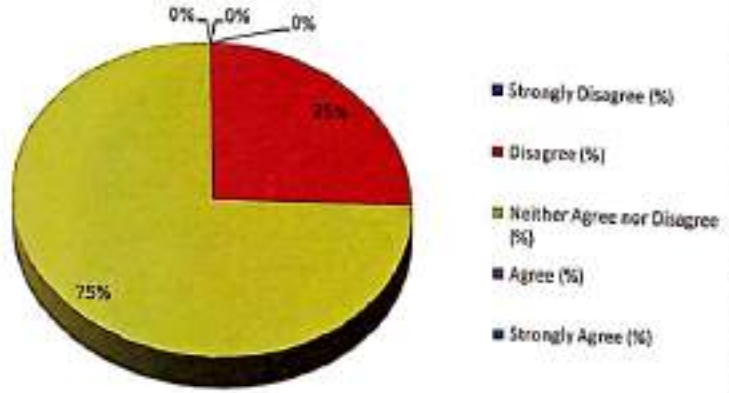

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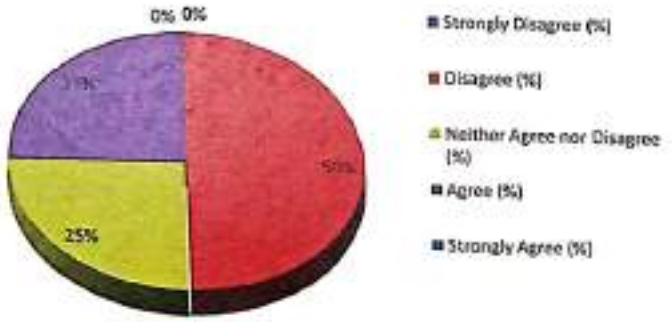
**Q.5 Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation.**



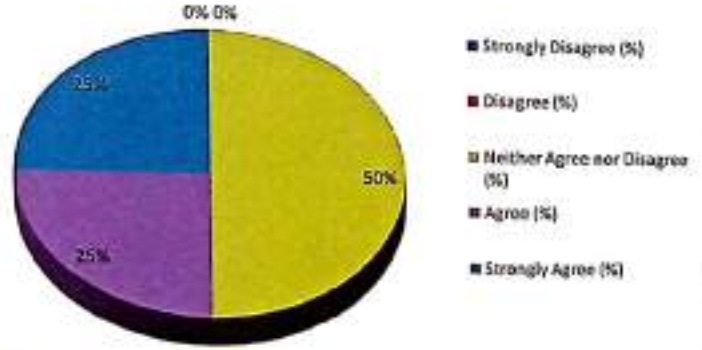

**Q.6 Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization.**




**Q.7 Curriculum helps in building an entreprencurial motive which helps to the students for starting their business enterprise.**



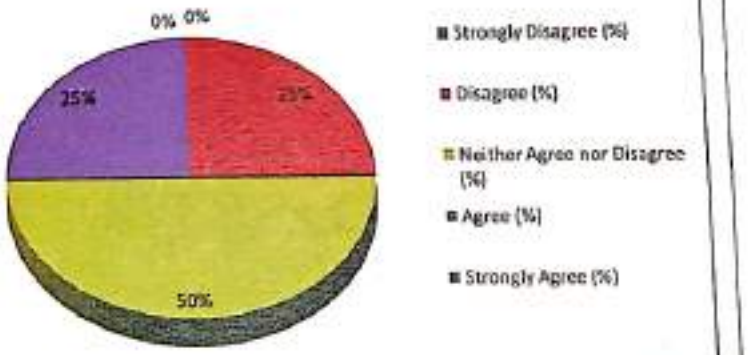

**Q.8 Curriculum helps in edifice ability and motivation to the students for involvement in social activities.**



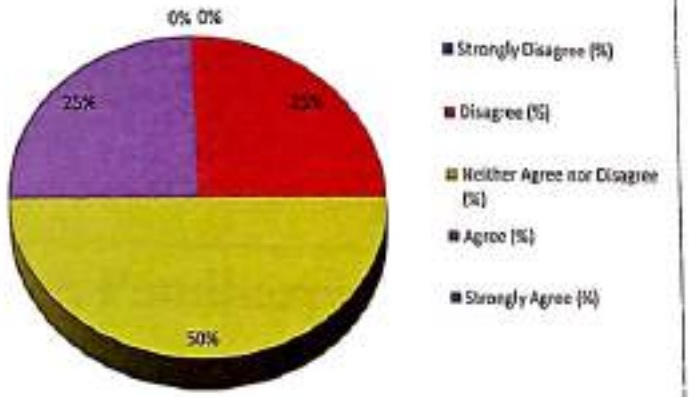

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**Q.9 Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team.**




**Q.10 Curriculum show signs of independent thinking of students and appreciation of ethical values in their career.**




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# SVERI's College of Engineering, Pandharpur

## Department of Electronics & Tele-Communication Engineering

## Analysis of Feedback Report

**Academic Year: 2018-2019**

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# Analysis of Stakeholders Feedback Report

## A. Analysis of Students' Feedback Report:

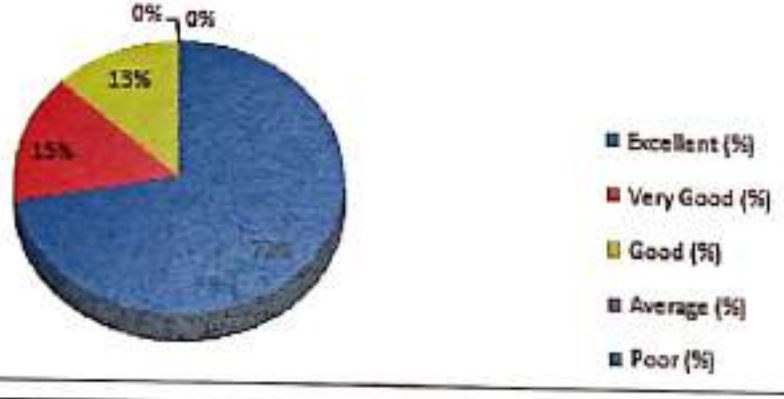
**Total Responses =228**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 71.9 | 15.4 | 12.7 | 0.0 | 0.0 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 38.6 | 48.2 | 9.6 | 3.5 | 0.0 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 33.3 | 42.1 | 14.5 | 5.3 | 4.8 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 32.5 | 32.9 | 21.5 | 6.1 | 7.0 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 42.5 | 32.0 | 21.5 | 3.9 | 0.0 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 35.5 | 47.8 | 13.6 | 3.1 | 0.0 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 42.1 | 33.8 | 24.1 | 0.0 | 0.0 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 32.5 | 38.2 | 14.5 | 8.8 | 6.1 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 32.9 | 33.3 | 18.0 | 5.3 | 10.5 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 42.1 | 45.2 | 12.7 | 0.0 | 0.0 |

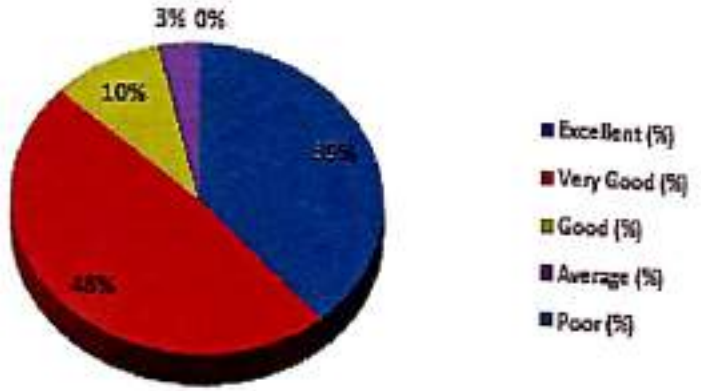
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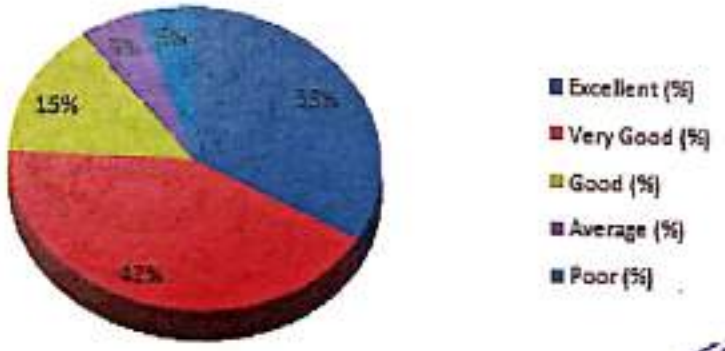
**Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?**



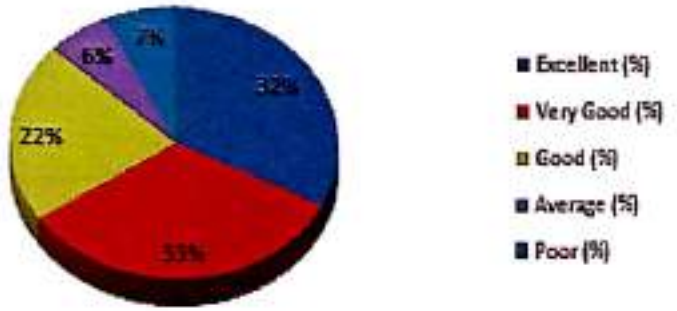

**Q.2 How do you rate the relevance of the units in syllabus significant to the course?**




**Q.3 How do you rate the electives offered in relation to the technological advancements?**



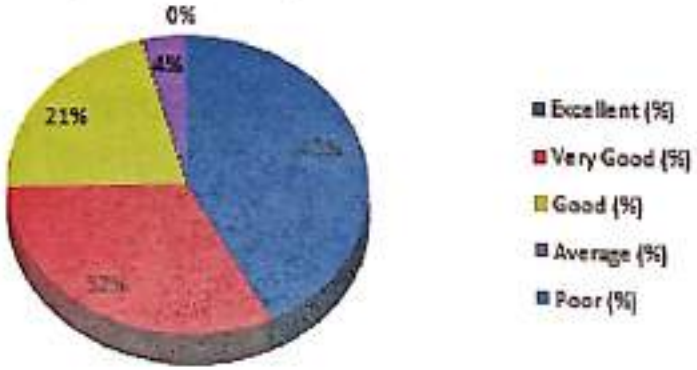

**Q.4 Rate the courses in terms of extra learning or self learning considering the design of the courses?**



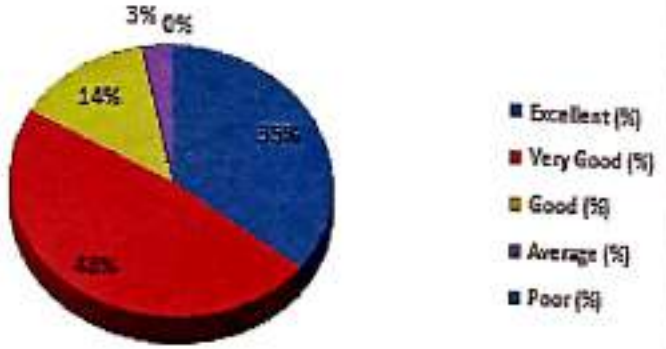

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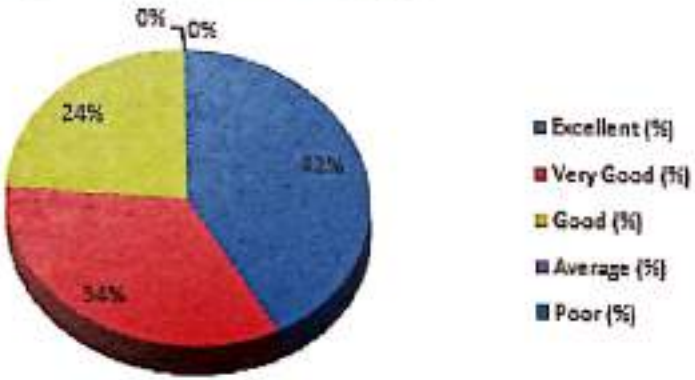
**Q.5 Rate the theoretical concepts of syllabus supported by Practical/Experiments?**



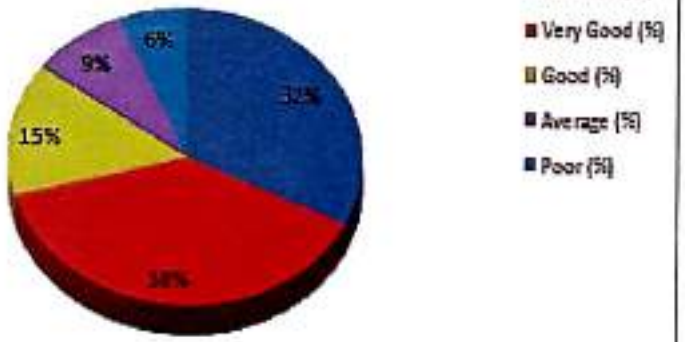

**Q.6 Rate the contents included in the syllabus with reference to professional and higher level learning skills?**




**Q.7 How do you rate the evaluation scheme designed for each of the course?**



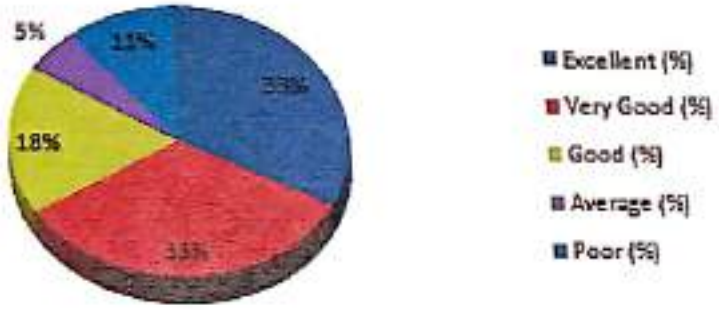

**Q.8 How do you rate the sequence of the courses in the curriculum?**



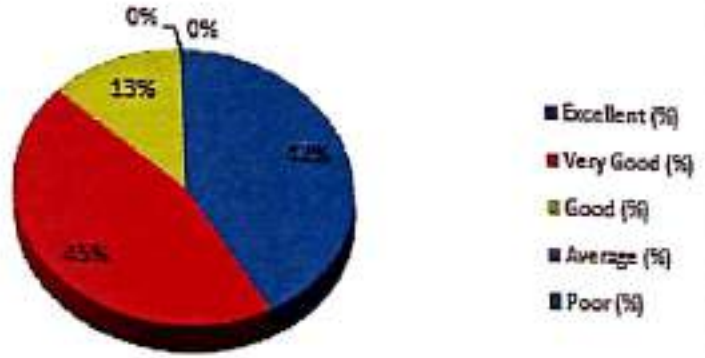

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**Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability /higher learning?**




**Q.10 How do you rate the books listed as referencematerials are relevant, updated and appropriate?**




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## B. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =28**

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 7.1 | 0.0 | 14.3 | 28.6 | 50.0 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0.0 | 3.6 | 3.6 | 35.7 | 57.1 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 0.0 | 3.6 | 7.1 | 39.3 | 50.0 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0.0 | 14.3 | 7.1 | 42.9 | 35.7 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 0.0 | 3.6 | 3.6 | 50.0 | 42.9 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 17.9 | 7.1 | 14.3 | 42.9 | 17.9 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 7.1 | 7.1 | 10.7 | 50.0 | 25.0 |
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0.0 | 7.1 | 3.6 | 35.7 | 53.6 |

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## Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 7.1 | 0.0 | 3.6 | 42.9 | 46.4 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 3.6 | 0.0 | 7.1 | 46.4 | 42.9 |

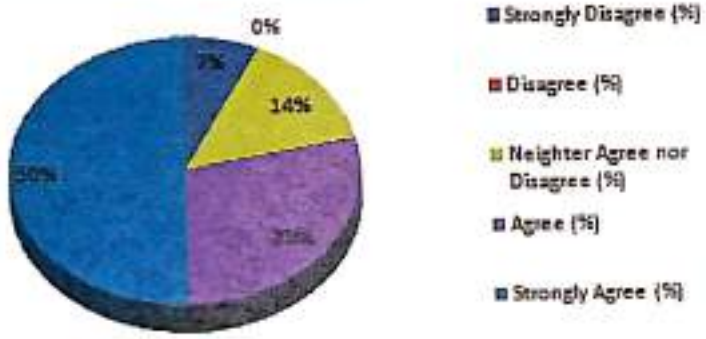



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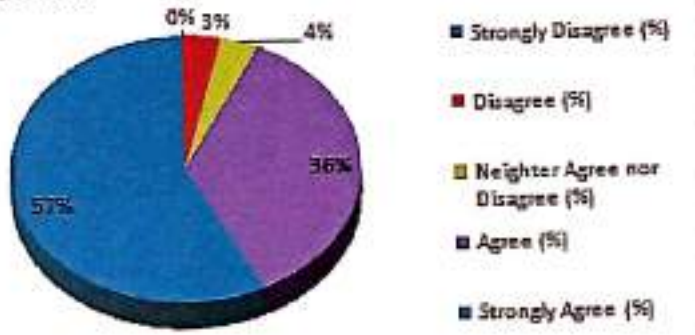
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# Analysis of Stakeholders Feedback Report

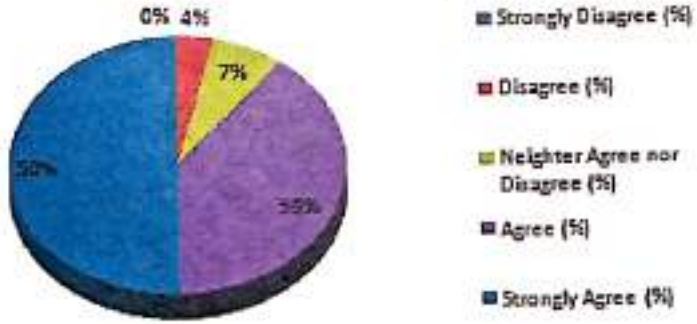
Q.1 The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course.



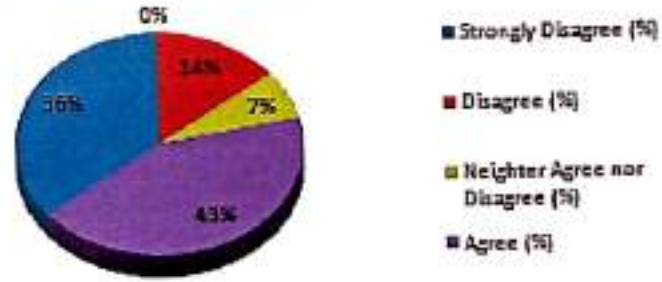

Q.2 The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics.




Q.3 The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum).



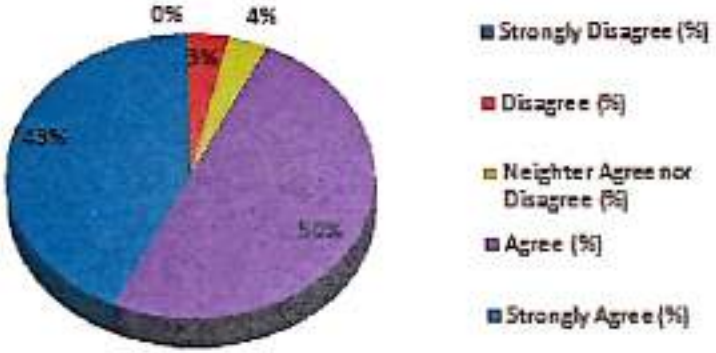

Q.4 Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application.



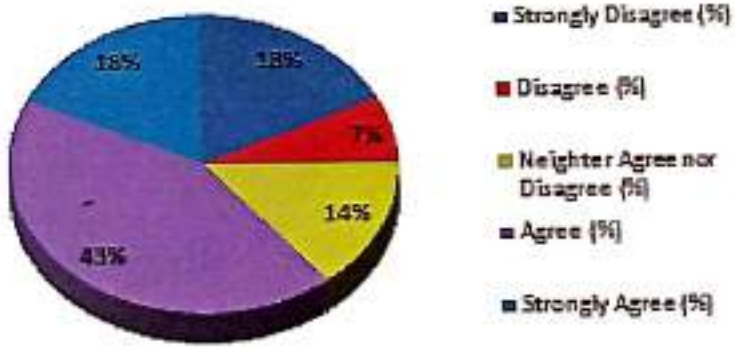

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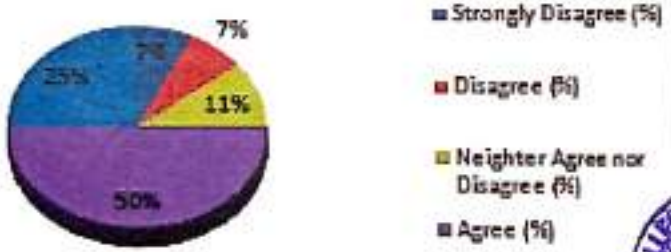
Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.



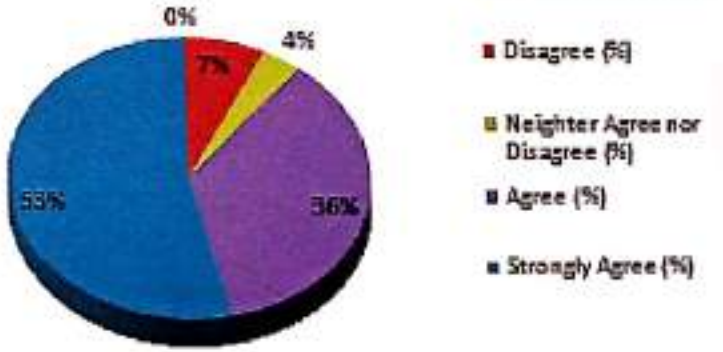

Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.



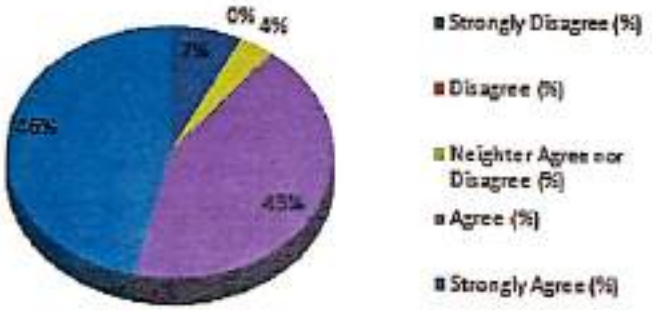

Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.



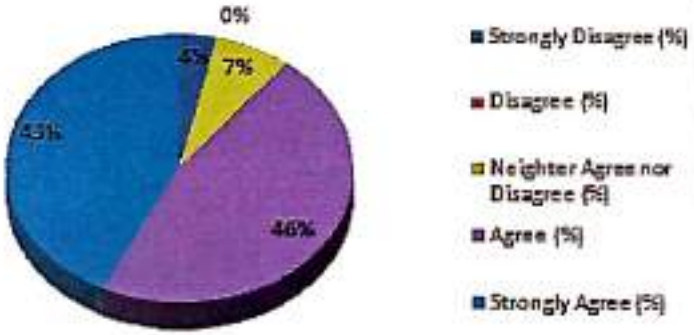

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Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.




Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.




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## C. Analysis of Alumni Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =11**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.) | 9.1 | 18.2 | 45.5 | 9.1 | 18.2 |
| 2. | The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application. | 0.0 | 27.3 | 27.3 | 27.3 | 18.2 |
| 3. | Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering. | 0.0 | 9.1 | 9.1 | 27.3 | 54.5 |
| 4. | The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations. | 0.0 | 18.2 | 36.4 | 27.3 | 18.2 |
| 5. | Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable. | 0.0 | 0.0 | 18.2 | 54.5 | 27.3 |
| 6. | The books prescribed/listed as reference materials are relevant, updated and appropriate. | 27.3 | 9.1 | 9.1 | 36.4 | 18.2 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 18.2 | 18.2 | 27.3 | 9.1 | 27.3 |
| 8. | The course enabled to build your future career. | 9.1 | 18.2 | 36.4 | 9.1 | 27.3 |

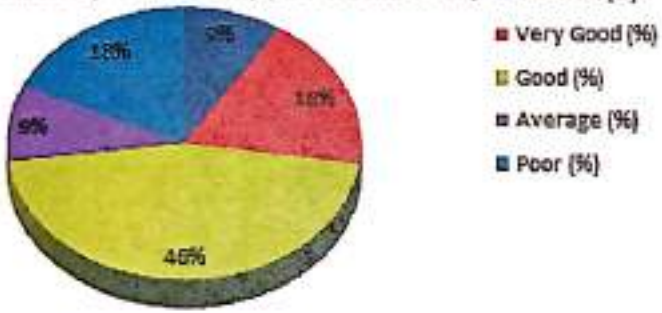
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B. Range

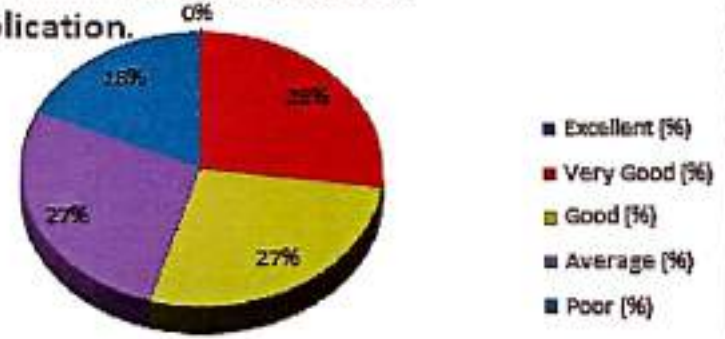
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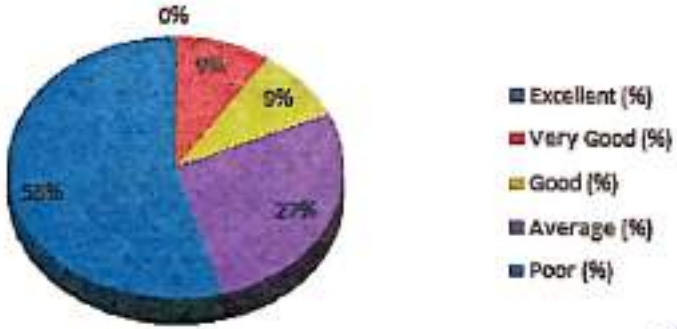
**Q.1 Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.)**



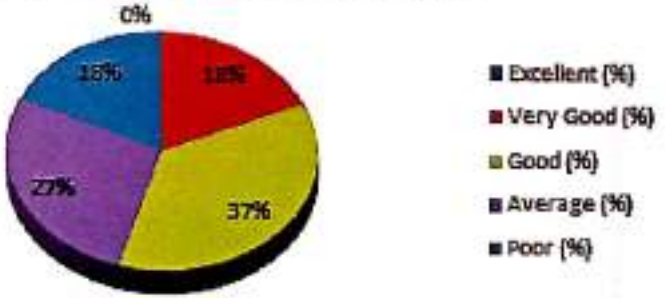

**Q.2 The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application.**




**Q.3 Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering.**



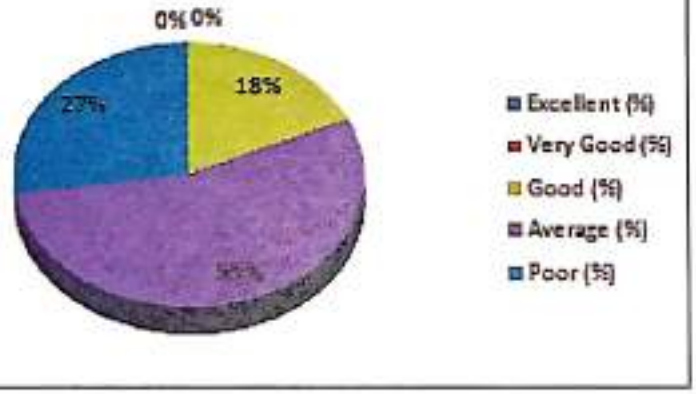

**Q.4 The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, anal ytical abilities, applicability, relevance and practical orientation to real life..**



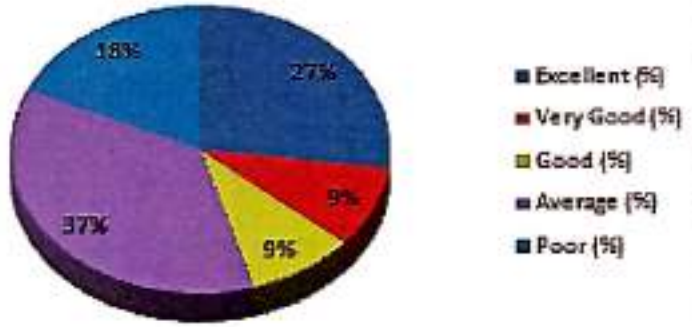

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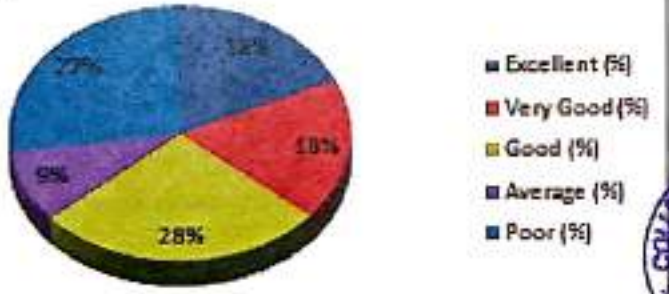
Q.5 Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable.



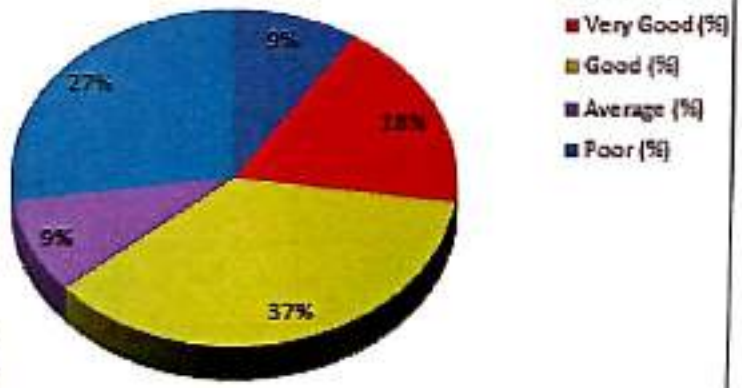

Q.6 The books prescribed/listed as reference materials are relevant, updated and appropriate.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.




Q.8 The course enabled to build your future career.




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## D. Analysis of Employers Feedback on the Syllabus and its Transaction at the Institution

### Academic Year: 2018-2019

**Total Responses = 4**

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | Current Curriculum of all Programmes is relevant for employability. | 0.0 | 0.0 | 75.0 | 25.0 | 0.0 |
| 2. | Curriculum bridges the gap between Industry and Academic. | 0.0 | 75.0 | 0.0 | 25.0 | 0.0 |
| 3. | Current curriculum offers need based and meets to the expectations of industry. | 0.0 | 0.0 | 75.0 | 25.0 | 0.0 |
| 4. | Curriculum has enriched content which fulfils required orientation human resources. | 0.0 | 25.0 | 50.0 | 25.0 | 0.0 |
| 5 | Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation. | 0.0 | 50.0 | 50.0 | 0.0 | 0.0 |
| 6 | Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization. | 0.0 | 0.0 | 50.0 | 50.0 | 0.0 |
| 7 | Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise. | 0.0 | 0.0 | 50.0 | 50.0 | 0.0 |
| 8 | Curriculum helps in edifice ability and motivation to the students for involvement in social activities. | 0.0 | 75.0 | 0.0 | 25.0 | 0.0 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 9 | Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team. | 0.0 | 0.0 | 50.0 | 50.0 | 0.0 |
| 10 | Curriculum show signs of independent thinking of students and appreciation of ethical values in their career. | 0.0 | 25.0 | 75.0 | 0.0 | 0.0 |

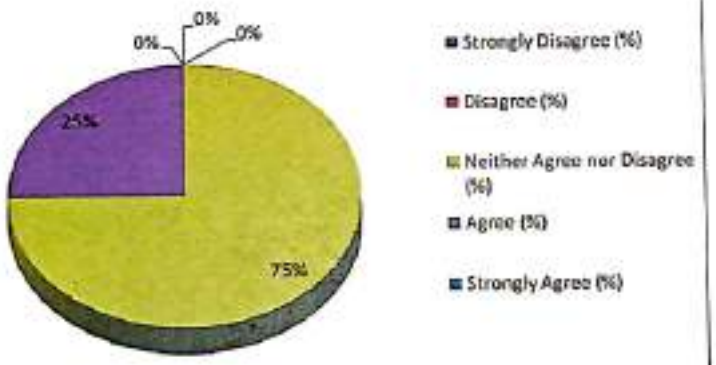



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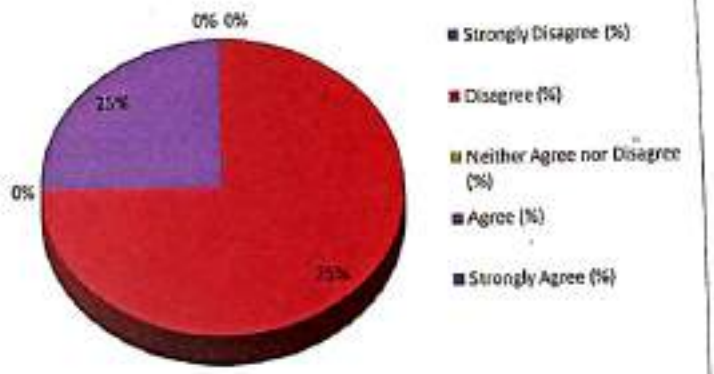
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# Analysis of Stakeholders Feedback Report

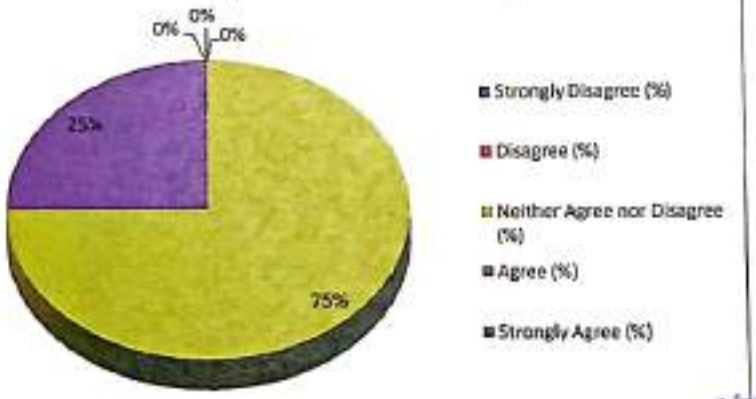
**Q.1 Current Curriculum of all Programmes is relevant for employability.**



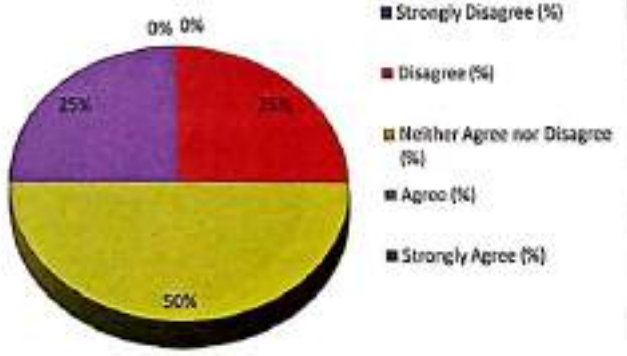

**Q.2 Curriculum bridges the gap between Industry and Academic.**




**Q.3 Current curriculum offers need based and meets to the expectations of industry.**




**Q.4 Curriculum has enriched content which fulfils required orientation human resources**

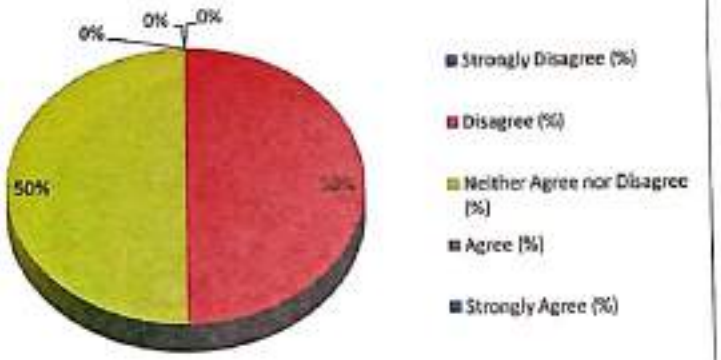



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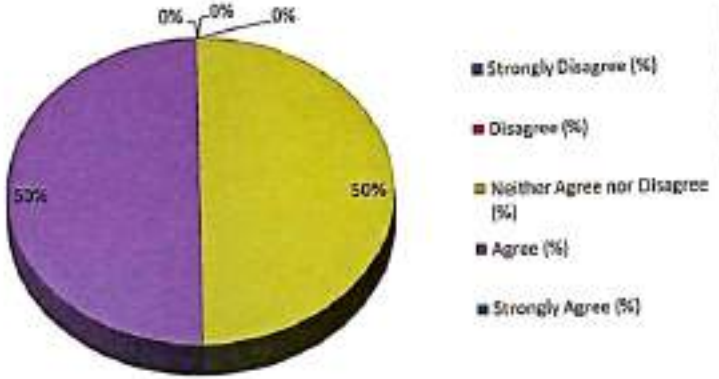
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# Analysis of Stakeholders Feedback Report

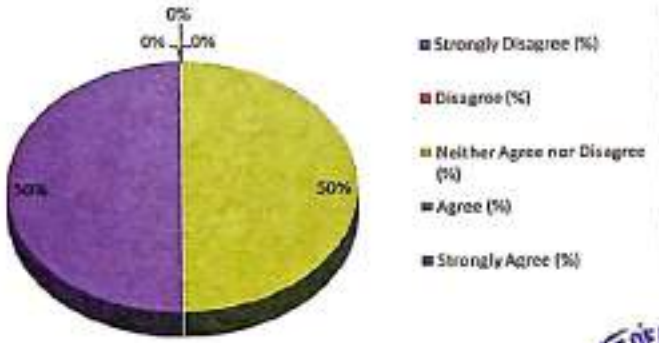
**Q.5 Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation.**



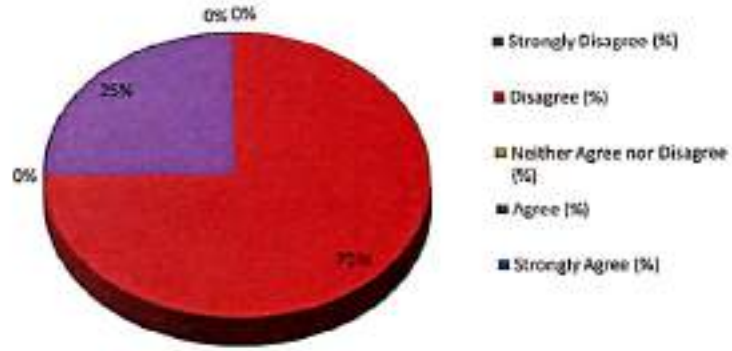

**Q.6 Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization.**




**Q.7 Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise.**



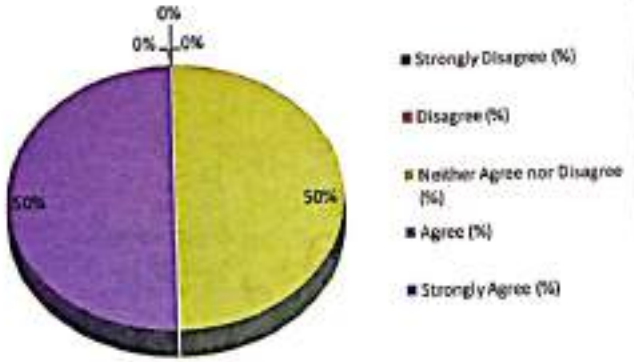

**Q.8 Curriculum helps in edifice ability and motivation to the students for involvement in social activities.**



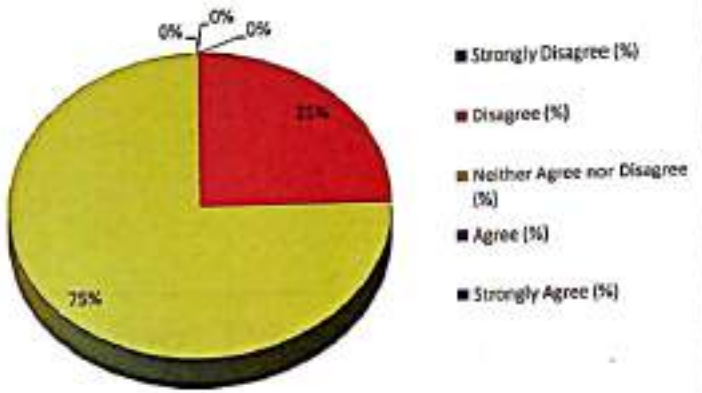

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**Q.9 Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team.**




**Q.10 Curriculum show signs of independent thinking of students and appreciation of ethical values in their career.**




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# SVERI's College of Engineering, Pandharpur

## Department of Computer Science & Engineering

## Analysis of Feedback Report

**Academic Year: 2019-2020**

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## A. Analysis of Students' Feedback Report:

**Total Responses =146**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 89.0 | 7.5 | 3.4 | 0.0 | 0.0 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 78.1 | 17.8 | 4.1 | 0.0 | 0.0 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 78.8 | 16.4 | 2.7 | 2.1 | 0.0 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 56.2 | 34.9 | 4.1 | 3.4 | 1.4 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 78.8 | 18.5 | 2.7 | 0.0 | 0.0 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 66.4 | 19.2 | 3.4 | 11.0 | 0.0 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 75.3 | 17.1 | 7.5 | 0.0 | 0.0 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 57.5 | 15.1 | 0.0 | 27.4 | 0.0 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 66.4 | 17.8 | 0.0 | 15.8 | 0.0 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 68.5 | 21.2 | 10.3 | 0.0 | 0.0 |

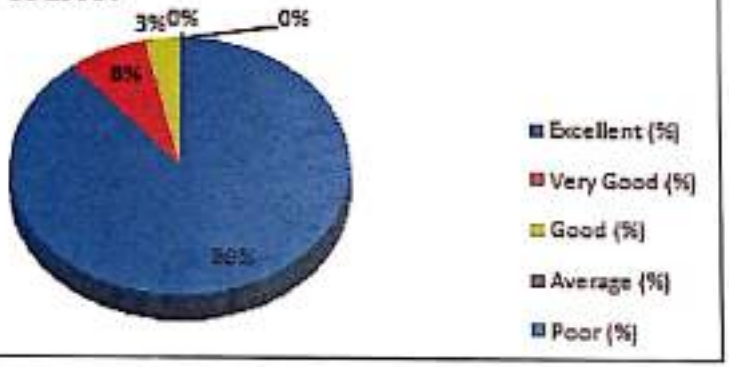
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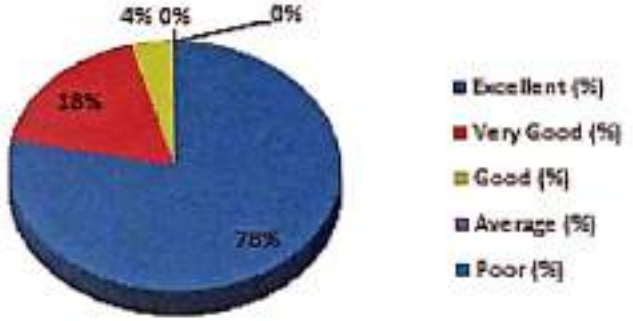
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# Analysis of Stakeholders Feedback Report

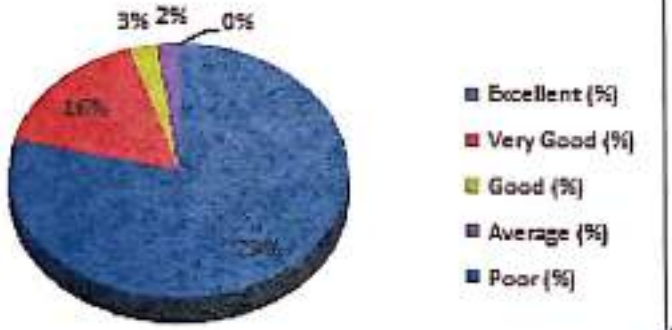
**Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?**



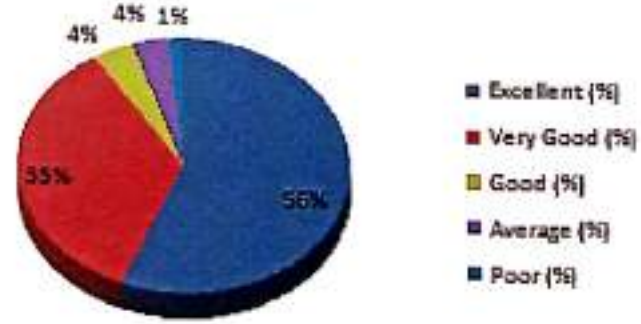

**Q.2 How do you rate the relevance of the units in syllabus significant to the course?**




**Q.3 How do you rate the electives offered in relation to the technological advancements?**



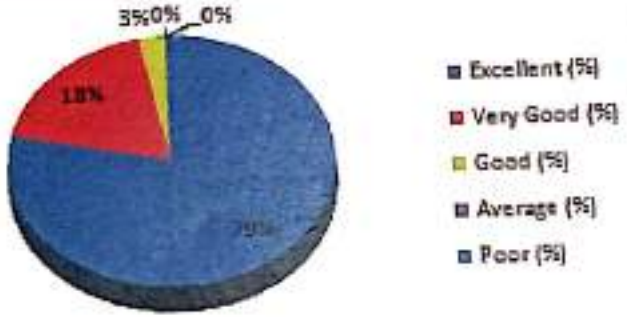

**Q.4 Rate the courses in terms of extra learning or self learning considering the design of the courses?**



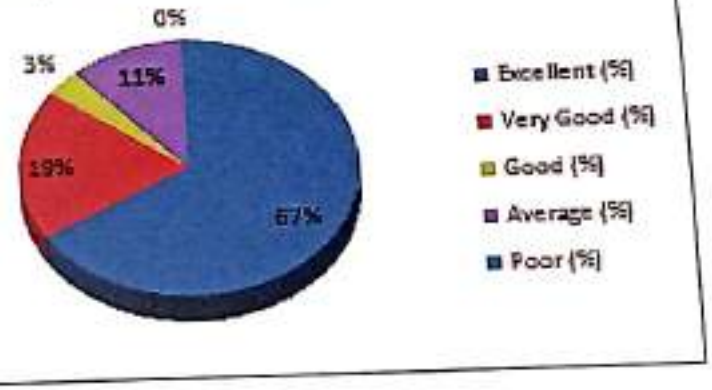

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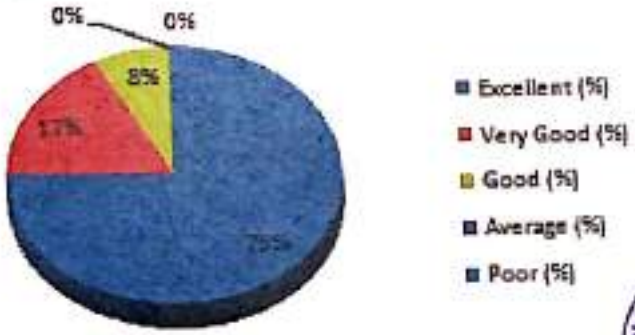
**Q.5 Rate the theoretical concepts of syllabus supported by Practical/Experiments?**



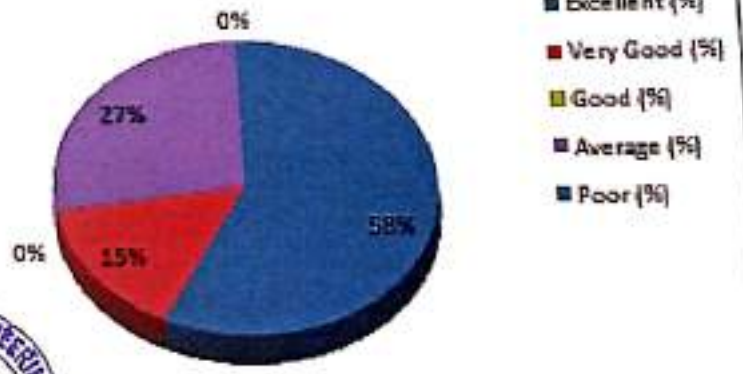

**Q.6 Rate the contents included in the syllabus with reference to professional and higher level learning skills?**




**Q.7 How do you rate the evaluation scheme designed for each of the course?**



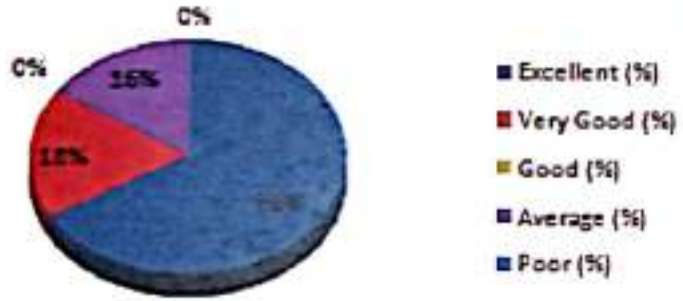

**Q.8 How do you rate the sequence of the courses in the curriculum?**



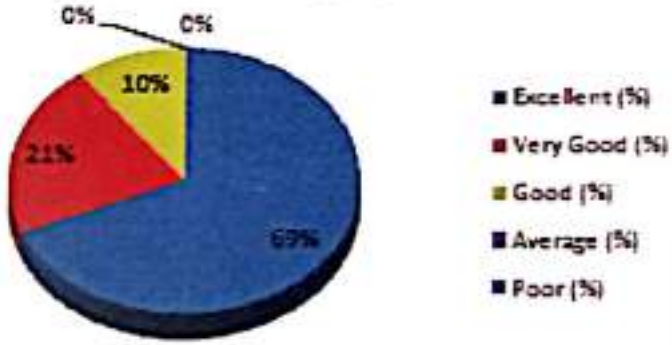

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**Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning?**




**Q.10 How do you rate the books listed as referencematerials are relevant, updated and appropriate?**




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## B. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

Total Responses =26

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 0.0 | 0.0 | 23.1 | 42.3 | 34.6 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0.0 | 0.0 | 23.1 | 26.9 | 50.0 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 0.0 | 34.6 | 3.8 | 34.6 | 26.9 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0.0 | 15.4 | 7.7 | 50.0 | 26.9 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 0.0 | 11.5 | 23.1 | 42.3 | 23.1 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 0.0 | 23.1 | 7.7 | 30.8 | 38.5 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 0.0 | 0.0 | 15.4 | 46.2 | 38.5 |
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0.0 | 23.1 | 0.0 | 15.4 | 61.5 |

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## Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 0.0 | 0.0 | 11.5 | 42.3 | 46.2 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 0.0 | 15.4 | 3.8 | 42.3 | 38.5 |

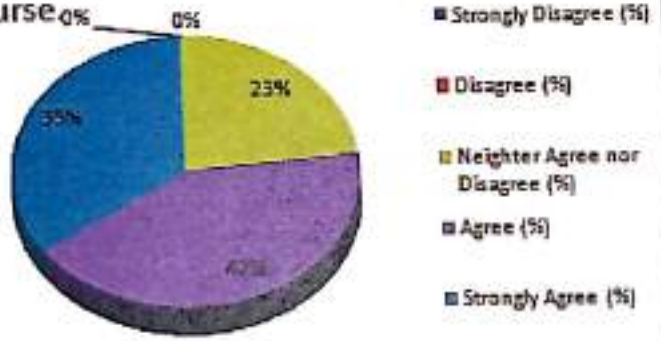



B. Ranje

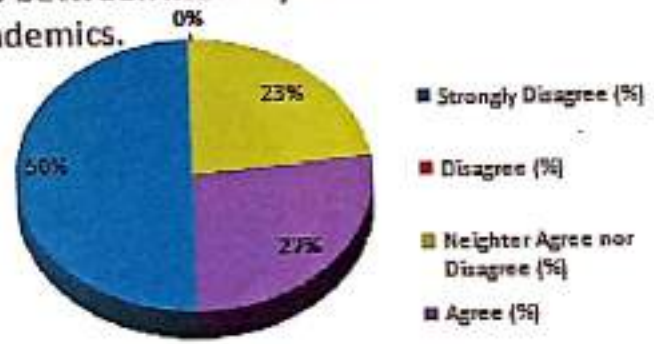
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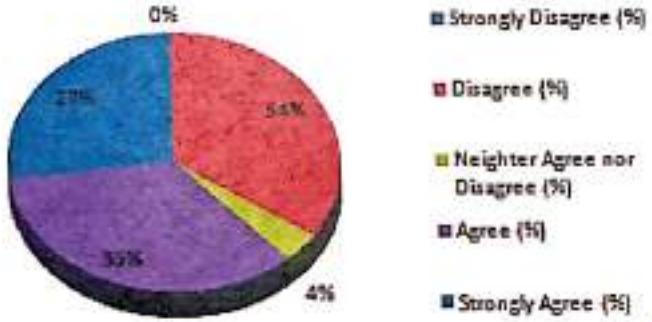
Q.1 The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course.



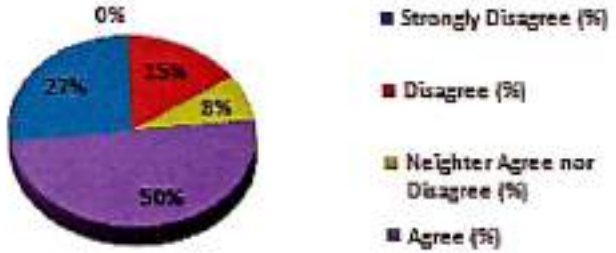

Q.2 The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics.




Q.3 The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum).



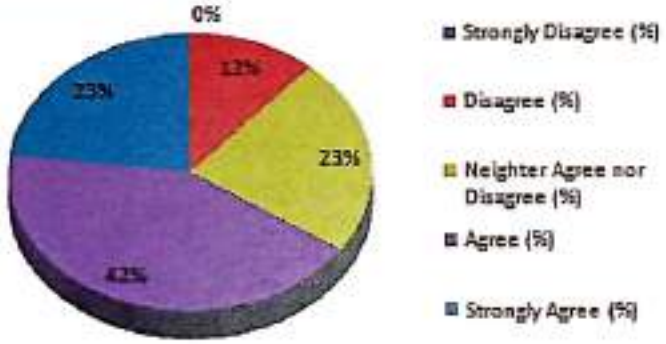

Q.4 Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application.



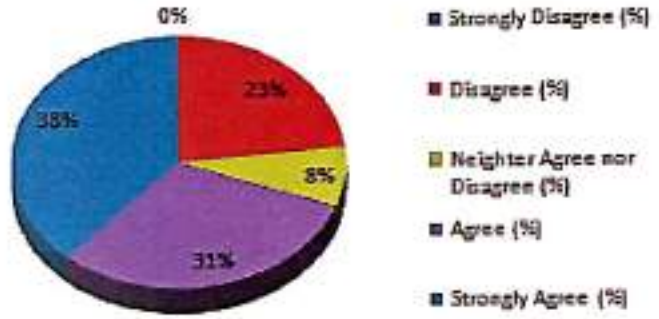

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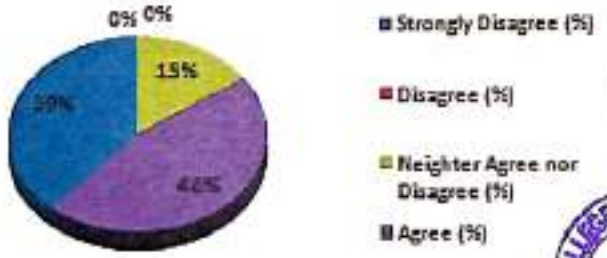
Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.



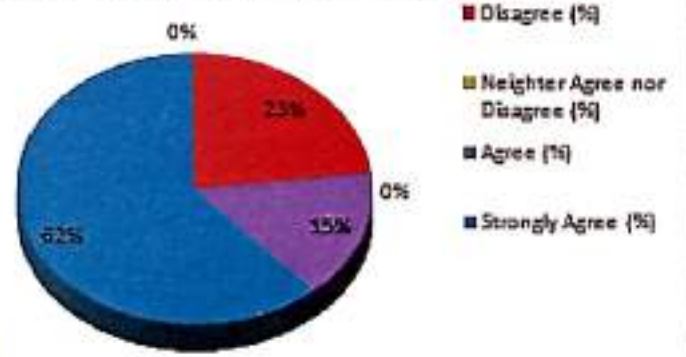

Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and...



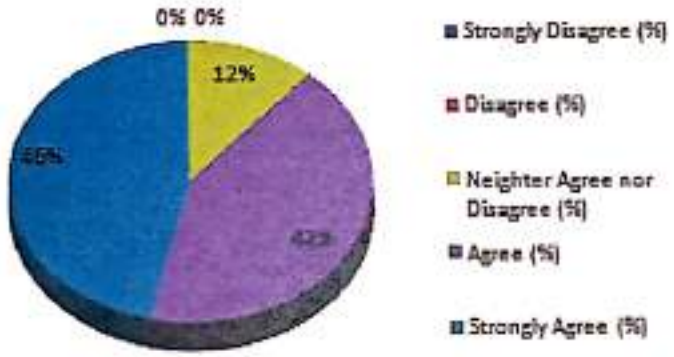

Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.



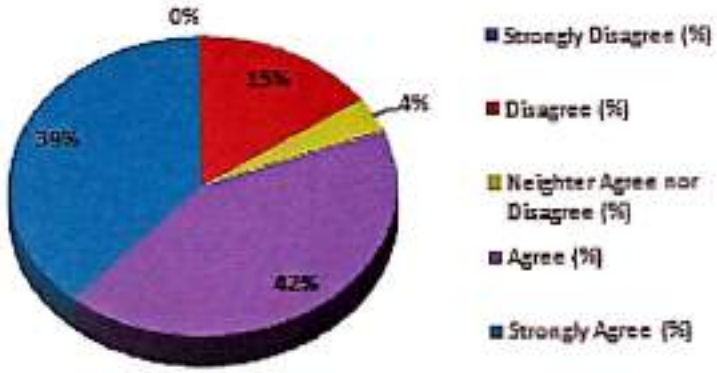

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Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.




Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.




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## C. Analysis of Alumni Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =16**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.) | 0.0 | 12.5 | 18.8 | 50.0 | 18.8 |
| 2. | The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application. | 0.0 | 12.5 | 18.8 | 31.3 | 37.5 |
| 3. | Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering. | 0.0 | 6.3 | 18.8 | 31.3 | 43.8 |
| 4. | The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations. | 0.0 | 12.5 | 18.8 | 31.3 | 37.5 |
| 5. | Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable. | 0.0 | 12.5 | 12.5 | 37.5 | 37.5 |
| 6. | The books prescribed/listed as reference materials are relevant, updated and appropriate. | 12.5 | 18.8 | 25.0 | 31.3 | 12.5 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 6.3 | 18.8 | 31.3 | 31.3 | 12.5 |
| 8. | The course enabled to build your future career. | 0.0 | 6.3 | 18.8 | 31.3 | 43.8 |

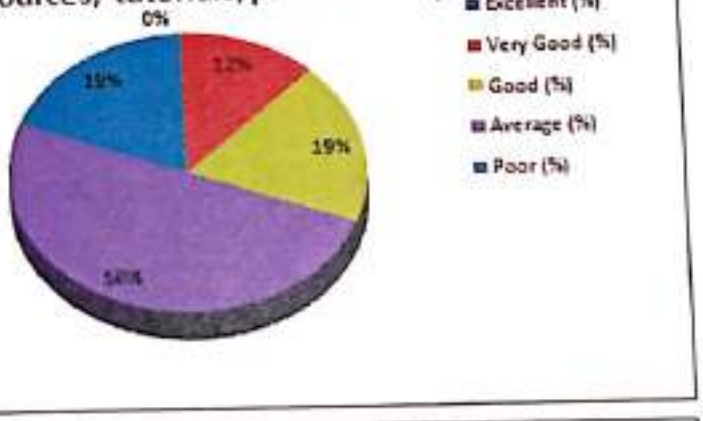
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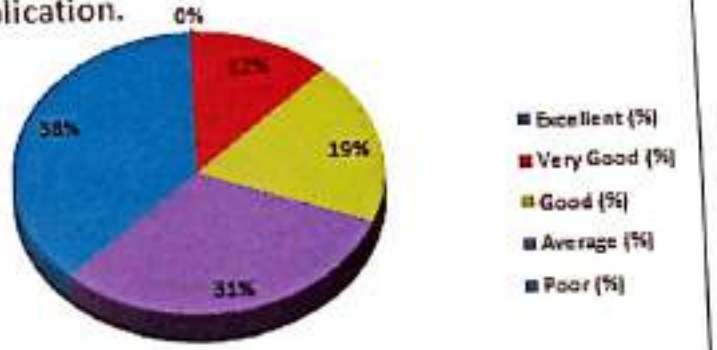
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# Analysis of Stakeholders Feedback Report

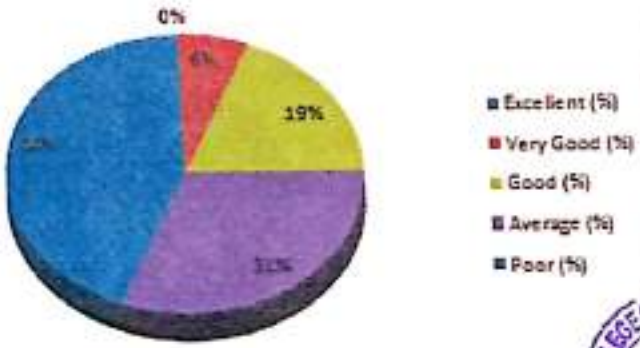
Q.1 Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.)



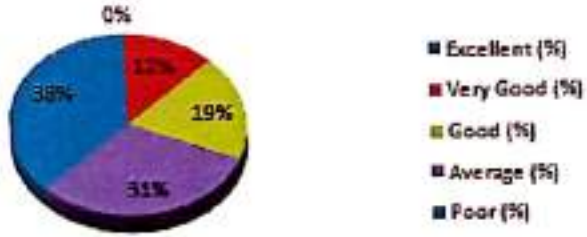

Q.2 The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application.




Q.3 Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering.



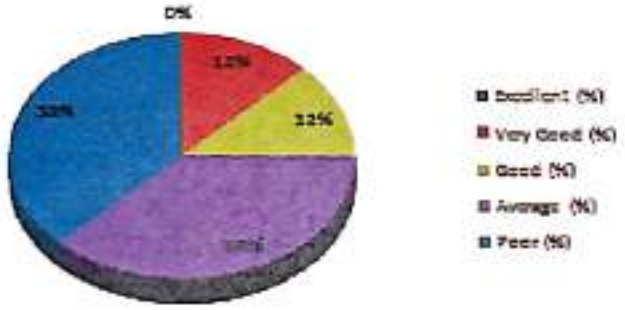

Q.4 The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, anal ytical abilities, applicability, relevance and practical orientation to real life situations.



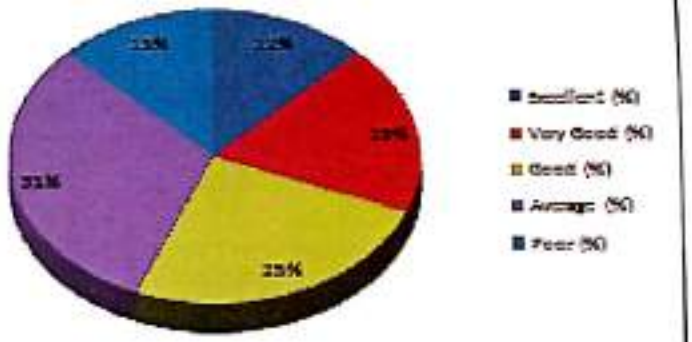

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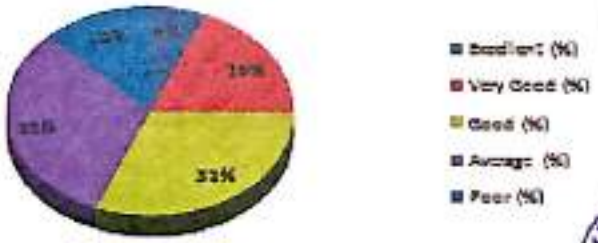
Q.5 Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable.



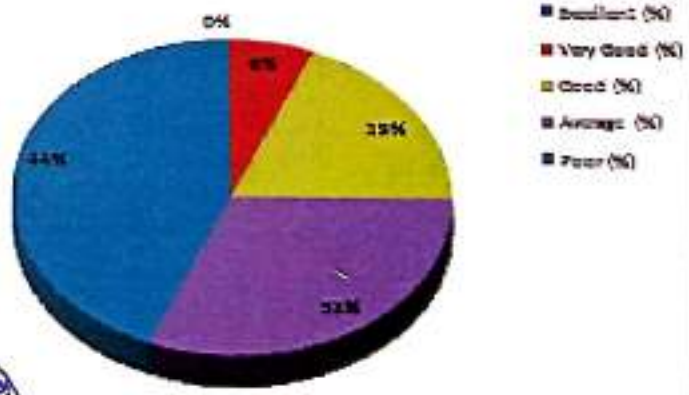

Q.6 The books prescribed/listed as reference materials are relevant, updated and appropriate.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.




Q.8 The course enabled to build your future career.




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## D. Analysis of Employers Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =06**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Current Curriculum of all Programmes is relevant for employability. | 0.0 | 16.7 | 33.3 | 16.7 | 33.3 |
| 2. | Curriculum bridges the gap between Industry and Academic. | 0.0 | 33.3 | 16.7 | 33.3 | 16.7 |
| 3. | Current curriculum offers need based and meets to the expectations of industry. | 0.0 | 16.7 | 50.0 | 16.7 | 16.7 |
| 4. | Curriculum has enriched content which fulfils required orientation human resources. | 0.0 | 16.7 | 33.3 | 16.7 | 33.3 |
| 5. | Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation. | 0.0 | 33.3 | 33.3 | 16.7 | 16.7 |
| 6. | Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization. | 16.7 | 16.7 | 33.3 | 33.3 | 0.0 |
| 7. | Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise. | 0.0 | 33.3 | 33.3 | 33.3 | 0.0 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 8. | Curriculum helps in edifice ability and motivation to the students for involvement in social activities. | 0.0 | 16.7 | 16.7 | 50.0 | 16.7 |
| 9 | Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team. | 0.0 | 0.0 | 50.0 | 50.0 | 0.0 |
| 10 | Curriculum show signs of independent thinking of students and appreciation of ethical values in their career. | 0.0 | 25.0 | 75.0 | 0.0 | 0.0 |

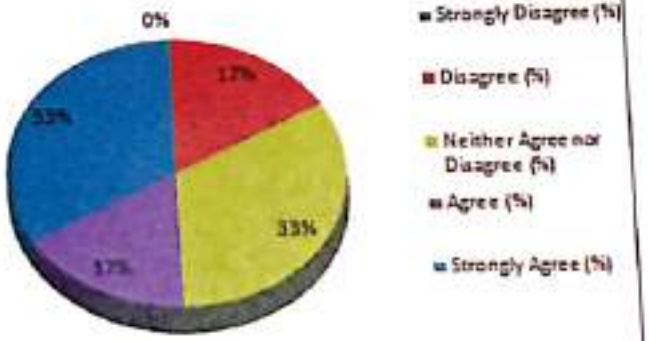



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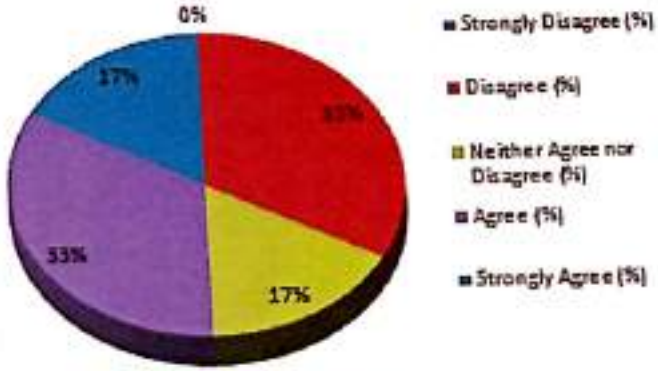
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# Analysis of Stakeholders Feedback Report

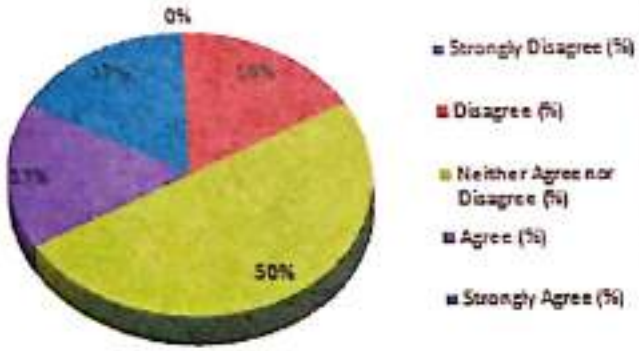
Q.1 Current Curriculum of all Programmes is relevant for employability.



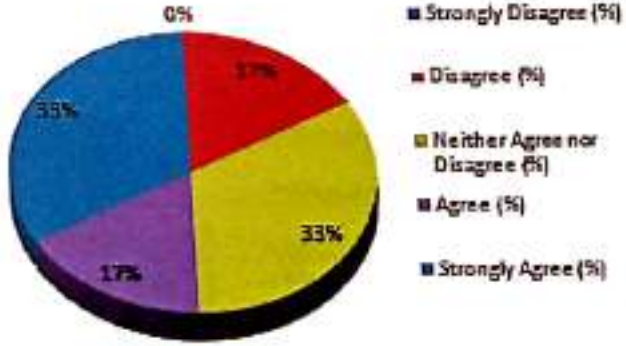

Q.2 Curriculum bridges the gap between Industry and Academic.




Q.3 Current curriculum offers need based and meets to the expectations of industry.



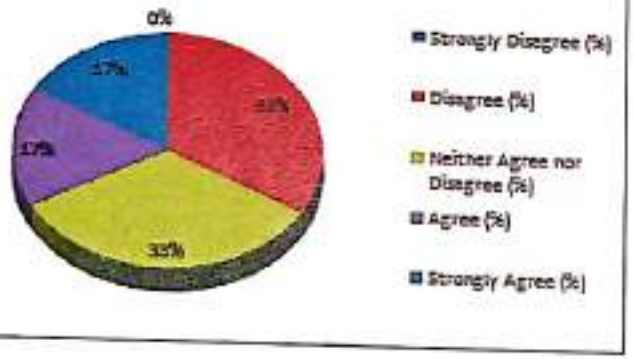

Q.4 Curriculum has enriched content which fulfils required orientation human resources



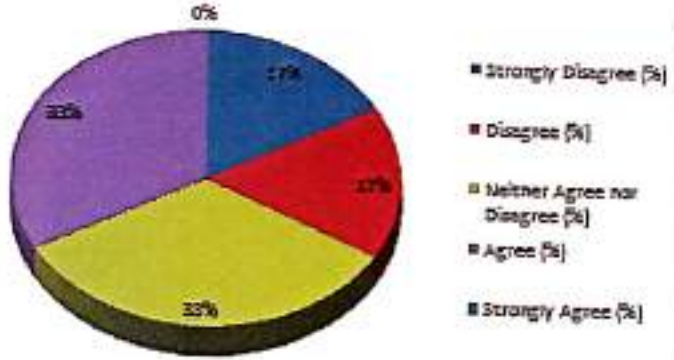

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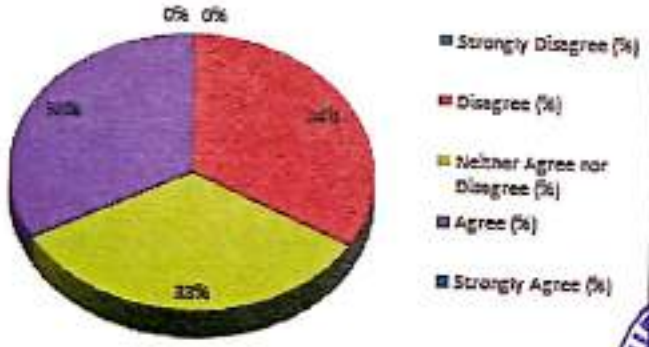
**Q.5 Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation.**



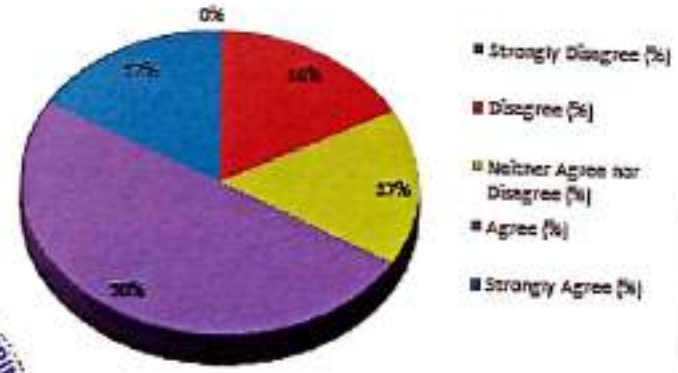

**Q.6 Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization.**




**Q.7 Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise.**



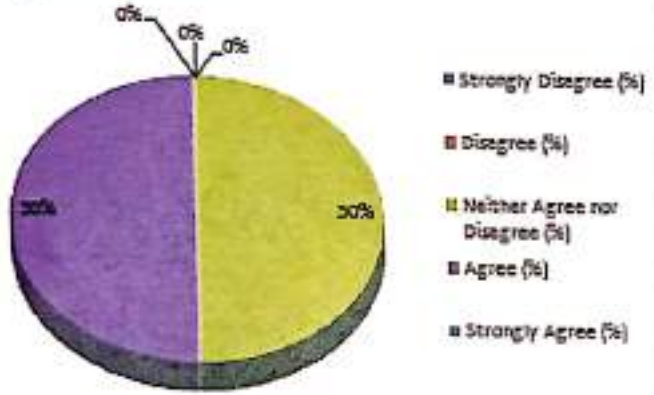

**Q.8 Curriculum helps in edifice ability and motivation to the students for involvement in social activities.**



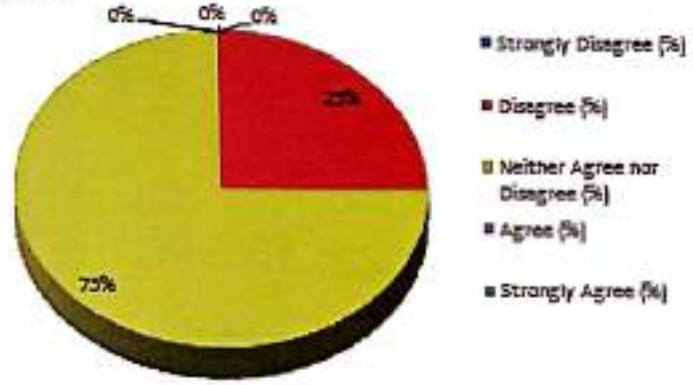

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**Q.9 Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team.**




**Q.10 Curriculum show signs of independent thinking of students and appreciation of ethical values in their career.**




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# SVERI's College of Engineering, Pandharpur

## Department of Computer Science & Engineering

## Analysis of Feedback Report

**Academic Year: 2018-2019**

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## E. Analysis of Students' Feedback Report:

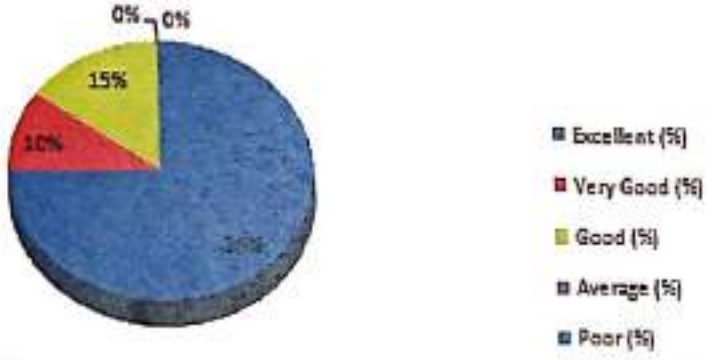
**Total Responses =295**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 74.9 | 10.2 | 14.9 | 0.0 | 0.0 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 66.4 | 28.5 | 5.1 | 0.0 | 0.0 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 62.4 | 30.8 | 6.8 | 0.0 | 0.0 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 46.4 | 41.0 | 12.5 | 0.0 | 0.0 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 72.9 | 19.7 | 7.5 | 0.0 | 0.0 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 52.5 | 30.5 | 8.5 | 8.5 | 0.0 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 52.2 | 28.5 | 7.5 | 11.9 | 0.0 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 69.2 | 25.1 | 5.8 | 0.0 | 0.0 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 58.0 | 30.5 | 11.5 | 0.0 | 0.0 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 69.2 | 23.1 | 7.8 | 0.0 | 0.0 |

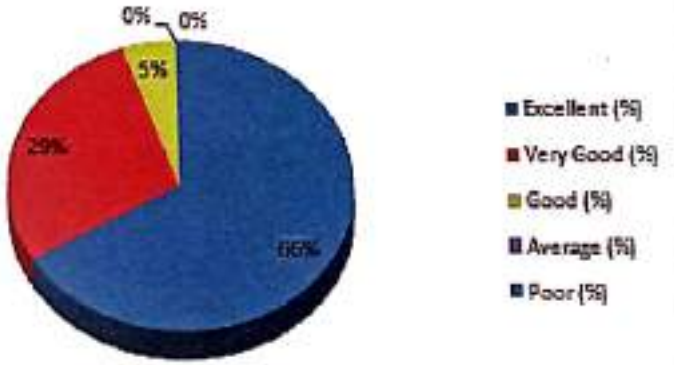
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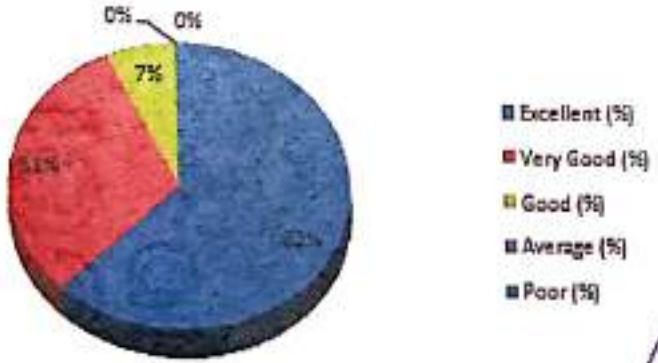
**Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?**



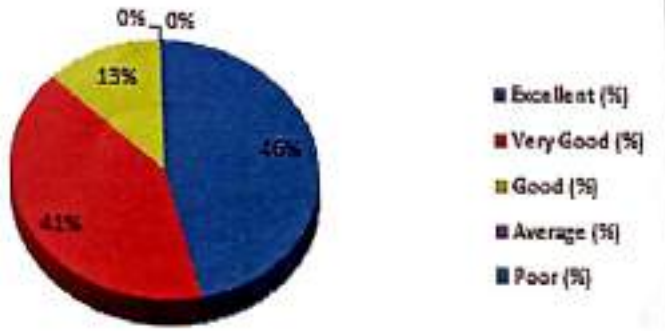

**Q.2 How do you rate the relevance of the units in syllabus significant to the course?**




**Q.3 How do you rate the electives offered in relation to the technological advancements?**



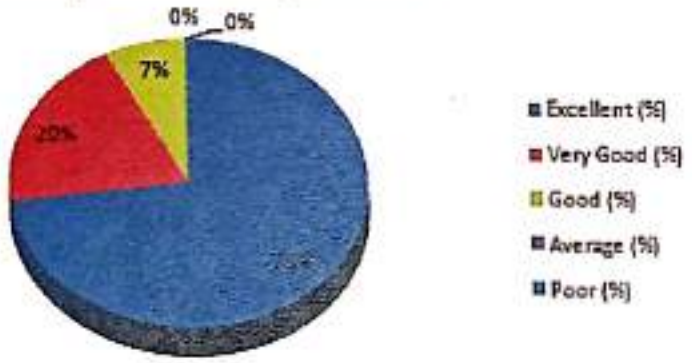

**Q.4 Rate the courses in terms of extra learning or self learning considering the design of the courses?**



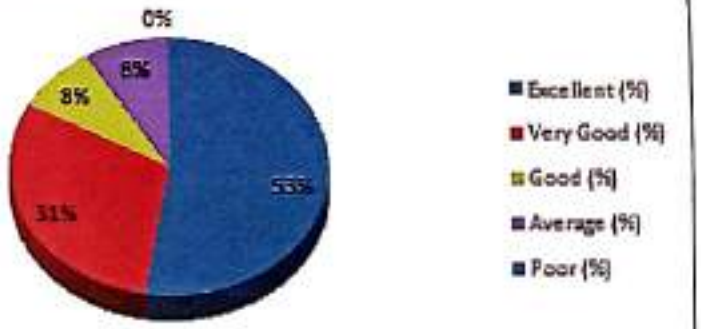

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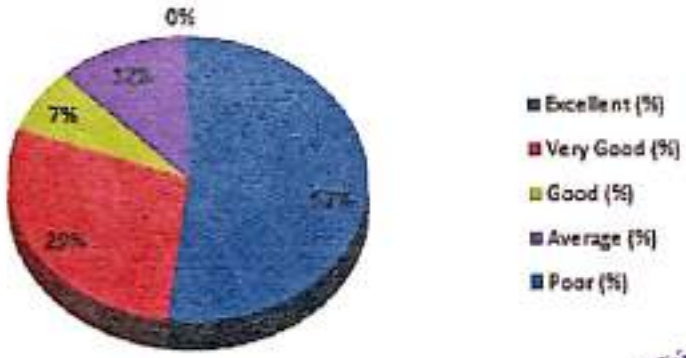
**Q.5 Rate the theoretical concepts of syllabus supported by Practical/Experiments?**



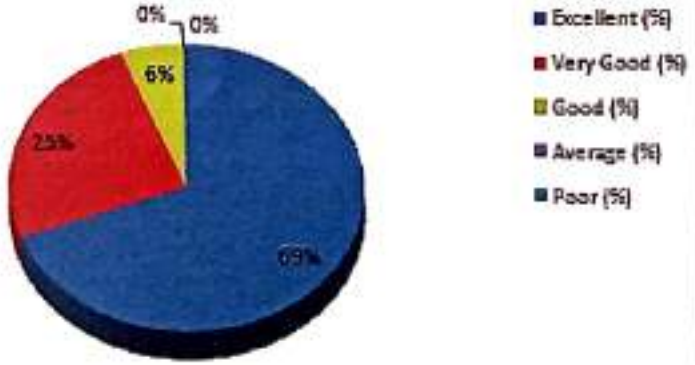

**Q.6 Rate the contents included in the syllabus with reference to professional and higher level learning skills?**




**Q.7 How do you rate the evaluation scheme designed for each of the course?**




**Q.8 How do you rate the sequence of the courses in the curriculum?**

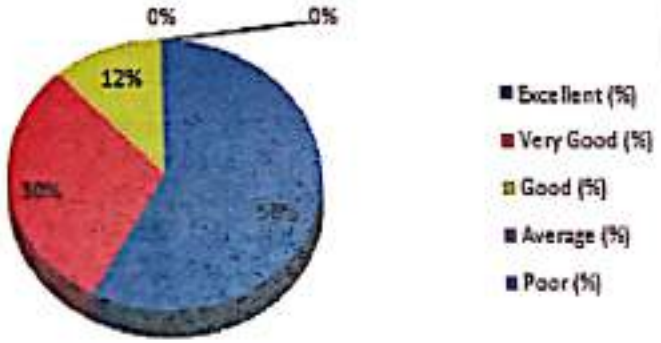



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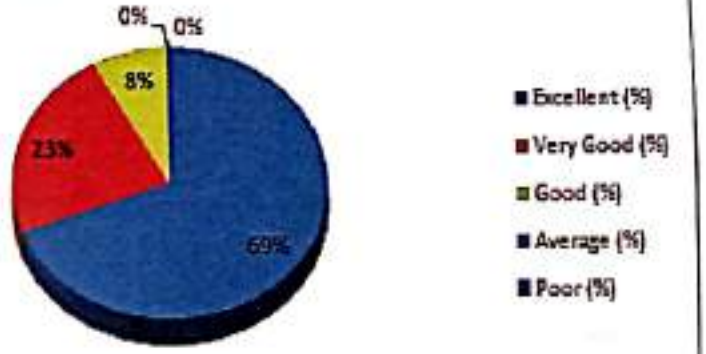
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## Analysis of Stakeholders Feedback Report

**Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability /higher learning?**




**Q.10 How do you rate the books listed as referencematerials are relevant, updated and appropriate?**




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## F. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =30**

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 0.0 | 0.0 | 16.7 | 50.0 | 33.3 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0.0 | 0.0 | 20.0 | 30.0 | 50.0 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 0.0 | 30.0 | 10.0 | 36.7 | 23.3 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0.0 | 13.3 | 16.7 | 43.3 | 26.7 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 0.0 | 16.7 | 23.3 | 40.0 | 20.0 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 0.0 | 20.0 | 13.3 | 26.7 | 40.0 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 0.0 | 0.0 | 10.0 | 50.0 | 40.0 |
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0.0 | 20.0 | 0.0 | 23.3 | 56.7 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 0.0 | 0.0 | 16.7 | 36.7 | 46.7 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 0.0 | 13.3 | 13.3 | 40.0 | 33.3 |



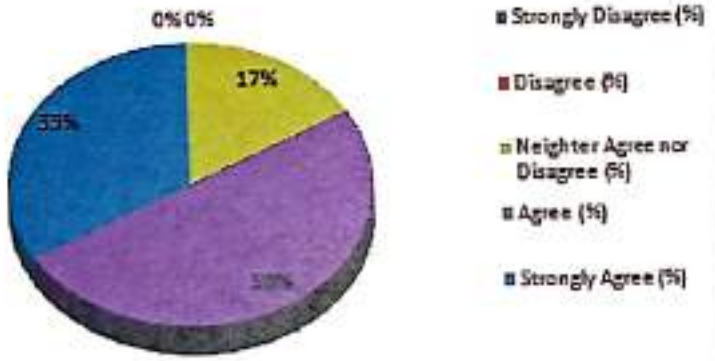

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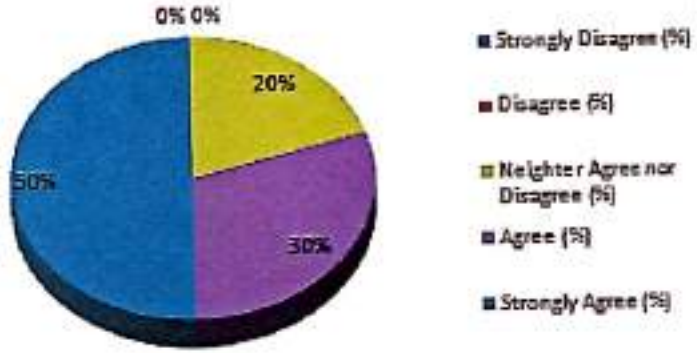
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# Analysis of Stakeholders Feedback Report

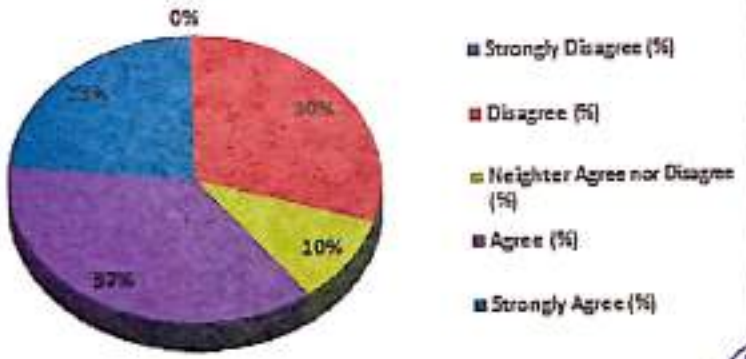
**Q.1 The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course.**



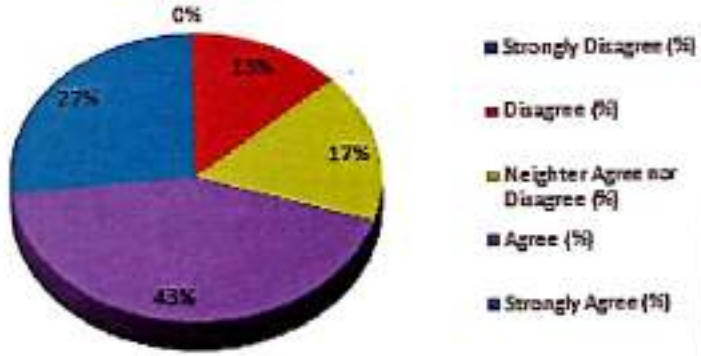

**Q.2 The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics.**




**Q.3 The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum).**



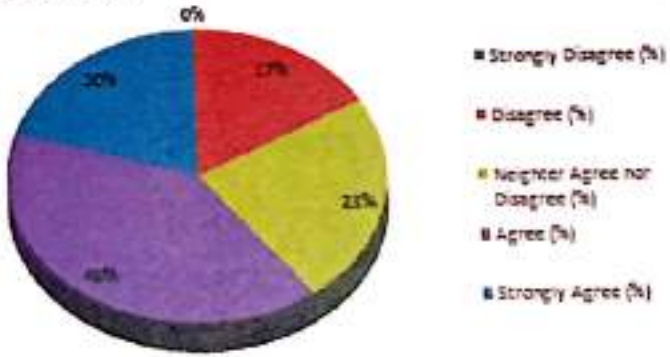

**Q.4 Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application.**



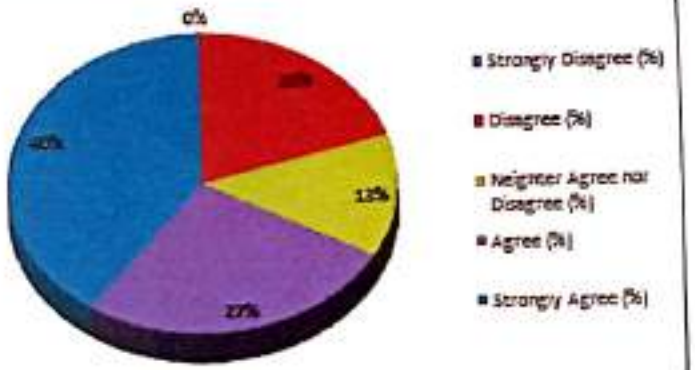

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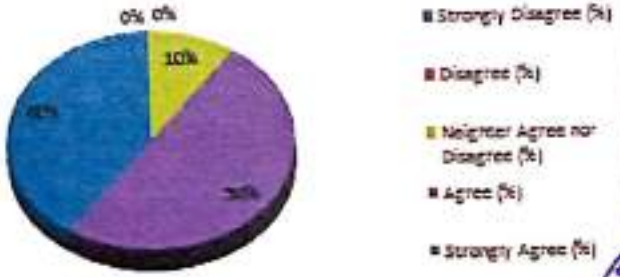
Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.



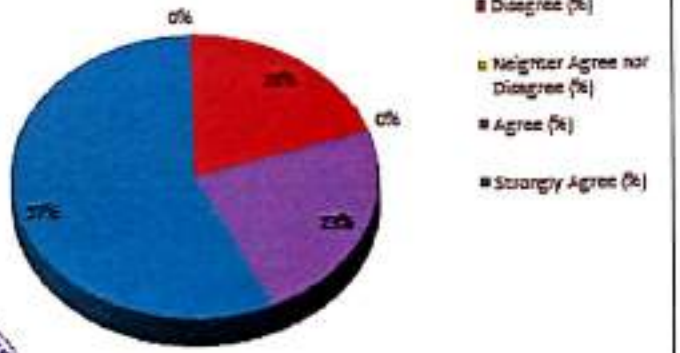

Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.



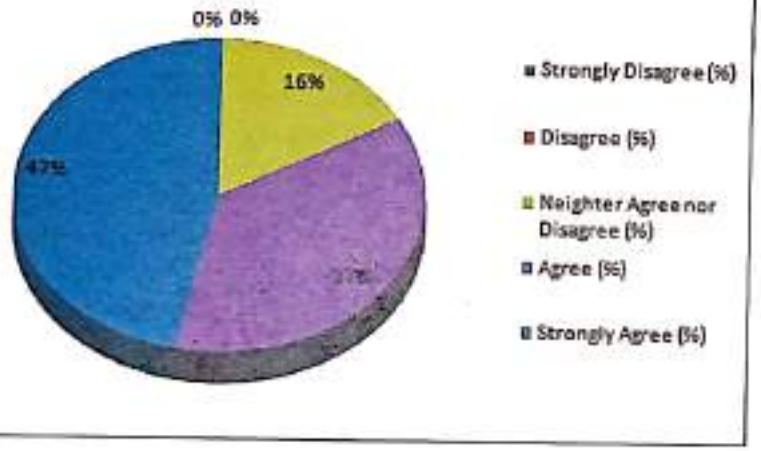

Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.



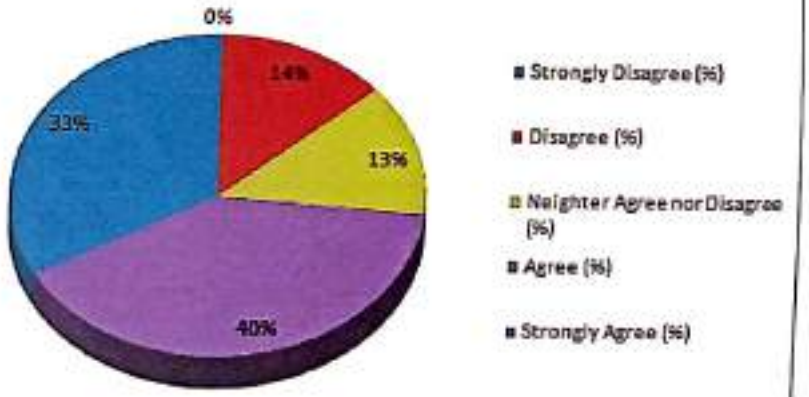

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**Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.**




**Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.**




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## G. Analysis of Alumni Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =30**

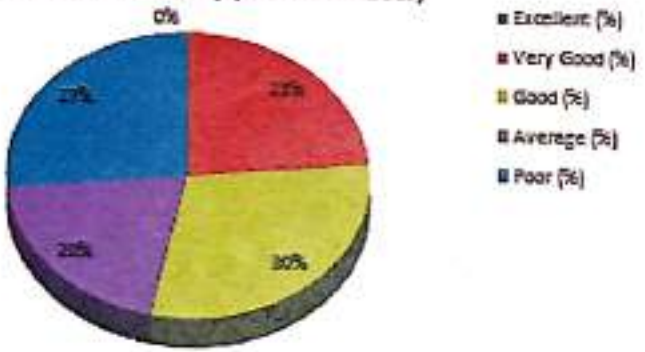
| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.) | 0.0 | 23.3 | 30.0 | 20.0 | 26.7 |
| 2. | The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application. | 0.0 | 6.7 | 10.0 | 33.3 | 50.0 |
| 3. | Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering. | 0.0 | 6.7 | 10.0 | 50.0 | 33.3 |
| 4. | The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations. | 0.0 | 6.7 | 10.0 | 50.0 | 33.3 |
| 5. | Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable. | 0.0 | 6.7 | 6.7 | 40.0 | 46.7 |
| 6. | The books prescribed/listed as reference materials are relevant, updated and appropriate. | 16.7 | 33.3 | 16.7 | 16.7 | 16.7 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 10.0 | 13.3 | 16.7 | 26.7 | 33.3 |
| 8. | The course enabled to build your future career. | 0.0 | 13.3 | 16.7 | 50.0 | 20.0 |

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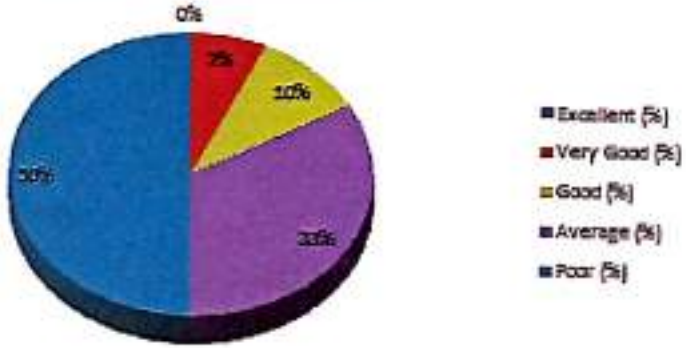
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# Analysis of Stakeholders Feedback Report

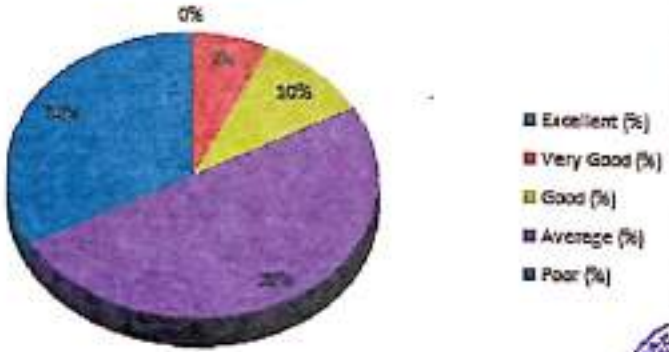
Q.1 Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.)



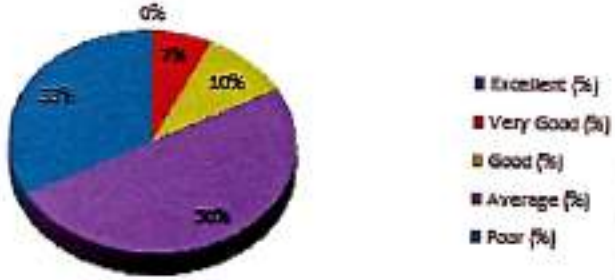

Q.2 The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application.




Q.3 Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering.




Q.4 The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytica l abilities, applicability, relevance and practical orientation to real life situations.

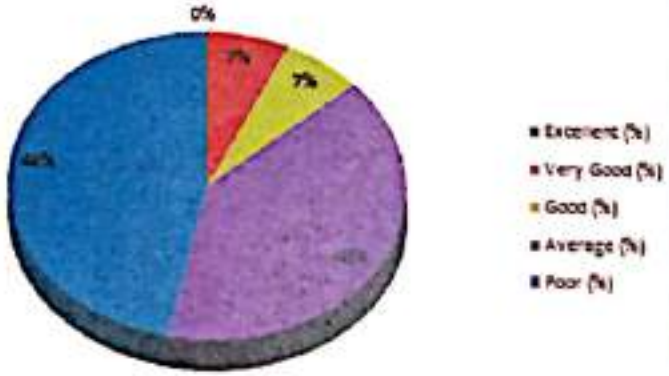



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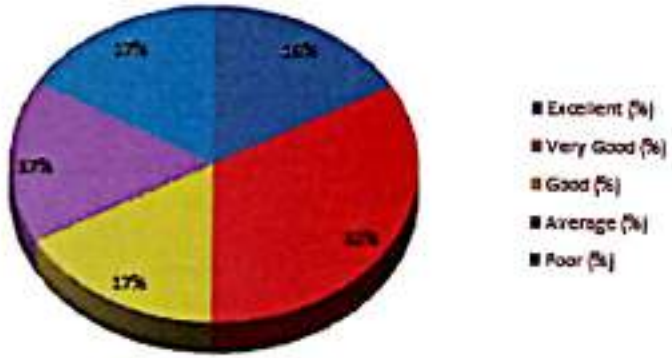
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# Analysis of Stakeholders Feedback Report

Q.5 Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable.



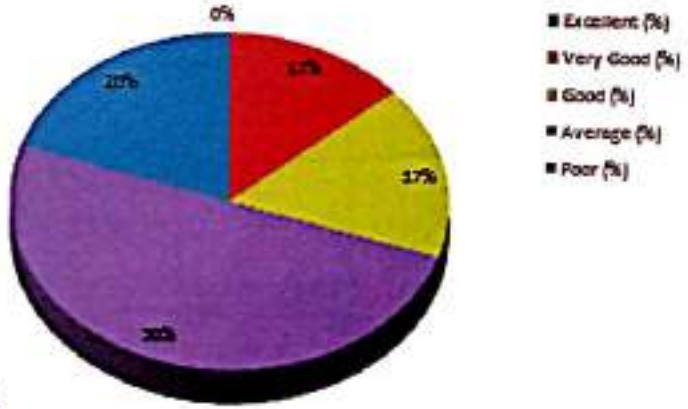

Q.6 The books prescribed/listed as reference materials are relevant, updated and appropriate.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.




Q.8 The course enabled to build your future career.




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## H. Analysis of Employers Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =06**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Current Curriculum of all Programmes is relevant for employability. | 0.0 | 16.7 | 33.3 | 16.7 | 33.3 |
| 2. | Curriculum bridges the gap between Industry and Academic. | 0.0 | 33.3 | 16.7 | 33.3 | 16.7 |
| 3. | Current curriculum offers need based and meets to the expectations of industry. | 0.0 | 16.7 | 50.0 | 16.7 | 16.7 |
| 4. | Curriculum has enriched content which fulfils required orientation human resources. | 0.0 | 16.7 | 33.3 | 16.7 | 33.3 |
| 5. | Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation. | 0.0 | 33.3 | 33.3 | 16.7 | 16.7 |
| 6. | Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization. | 16.7 | 16.7 | 33.3 | 33.3 | 0.0 |
| 7. | Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise. | 0.0 | 33.3 | 33.3 | 33.3 | 0.0 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 8. | Curriculum helps in edifice ability and motivation to the students for involvement in social activities. | 0.0 | 16.7 | 16.7 | 50.0 | 16.7 |
| 9 | Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team. | 0.0 | 0.0 | 50.0 | 50.0 | 0.0 |
| 10 | Curriculum show signs of independent thinking of students and appreciation of ethical values in their career. | 0.0 | 25.0 | 75.0 | 0.0 | 0.0 |

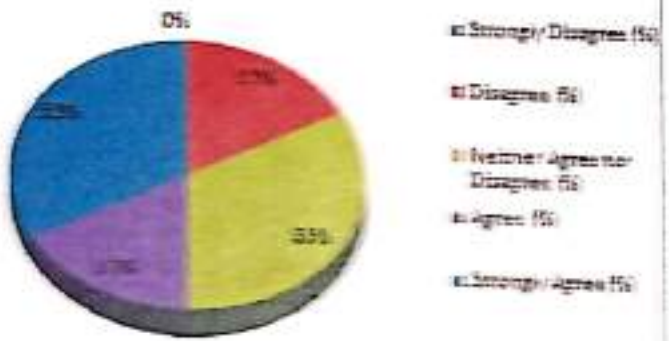
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B. Page

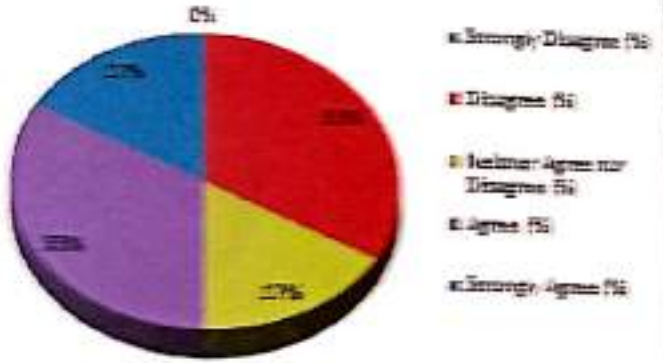
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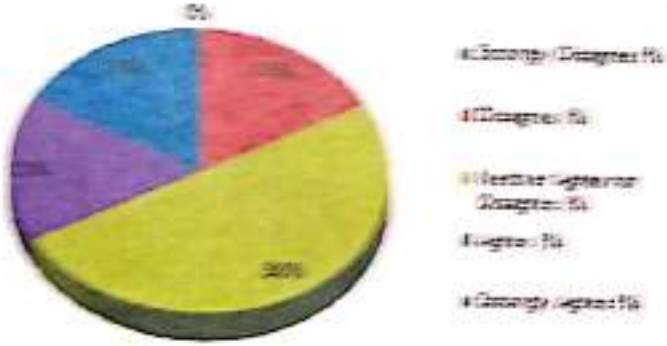
Q.1 Current Curriculum of all Programmes is relevantfor employability.



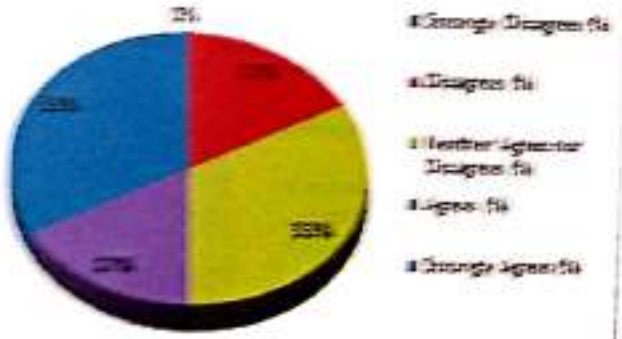

Q.2 Curriculum bridges the gap between Industry and Academic.




Q.3 Current curriculum often need based and meets the expectations of industry.

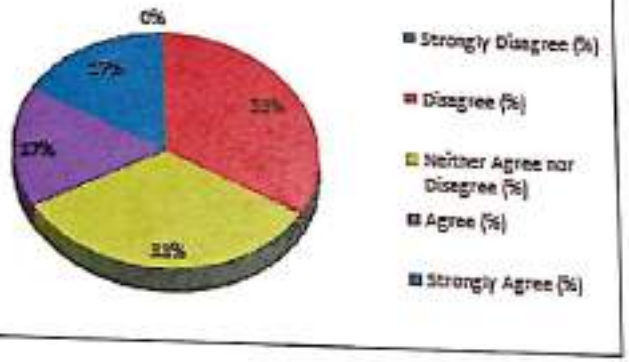



Q.4 Curriculum has enriched content which fulfils required education human resource

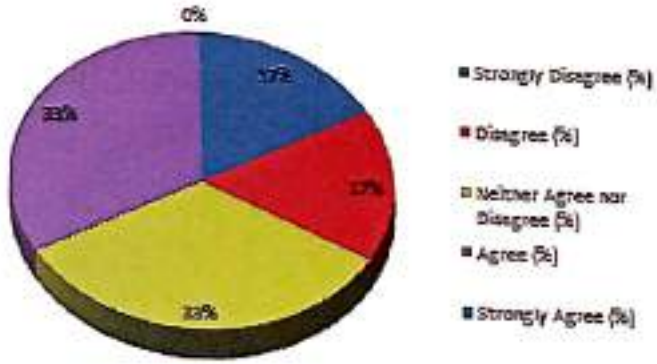



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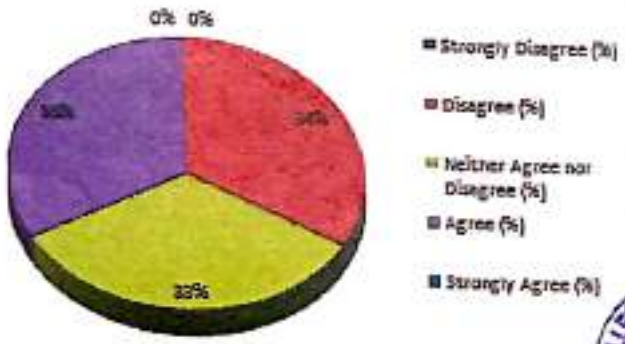
**Q.5 Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation.**



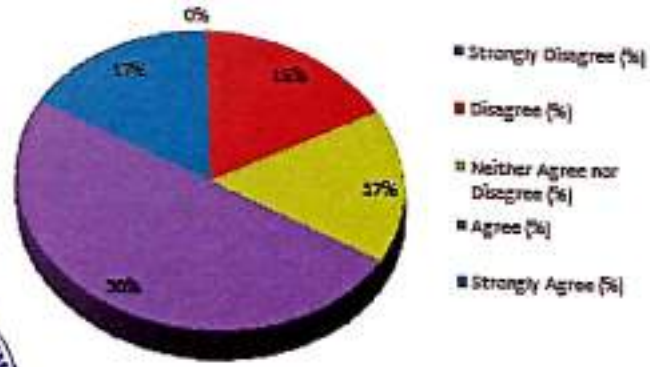

**Q.6 Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization.**




**Q.7 Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise.**



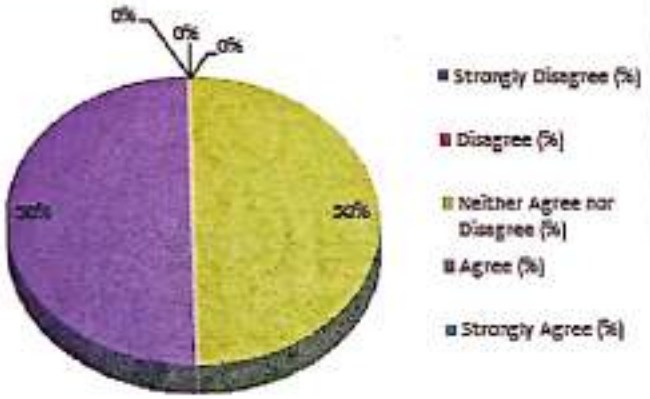

**Q.8 Curriculum helps in edifice ability and motivation to the students for involvement in social activities.**



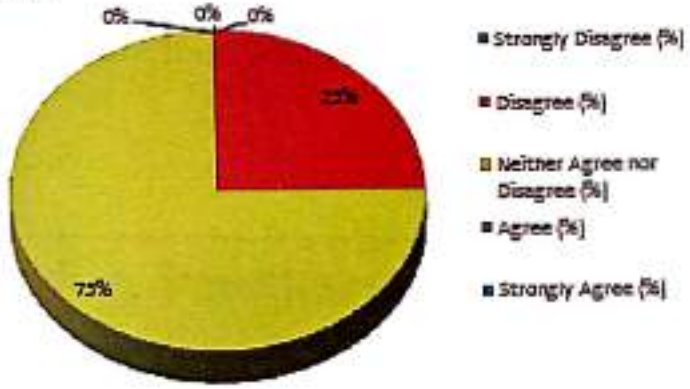

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**Q.9 Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team.**




**Q.10 Curriculum show signs of independent thinking of students and appreciation of ethical values in their career.**




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# SVERI's College of Engineering, Pandharpur

## Department of MBA

## Analysis of Feedback Report

**Academic Year: 2019-2020**

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## A. Analysis of Students' Feedback Report:

**Total Responses =54**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 53.7 | 20.4 | 11.1 | 7.4 | 7.4 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 55.6 | 27.8 | 9.3 | 5.6 | 1.9 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 64.8 | 24.1 | 9.3 | 1.9 | 0.0 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 53.7 | 25.9 | 16.7 | 1.9 | 1.9 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 61.1 | 22.2 | 14.8 | 1.9 | 0.0 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 46.3 | 37.0 | 13.0 | 3.7 | 0.0 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 51.9 | 20.4 | 24.1 | 3.7 | 0.0 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 53.7 | 29.6 | 11.1 | 5.6 | 0.0 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 33.3 | 40.7 | 20.4 | 5.6 | 0.0 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 48.1 | 40.7 | 11.1 | 0.0 | 0.0 |

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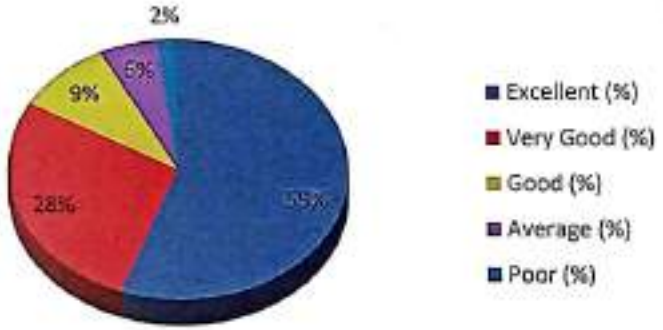
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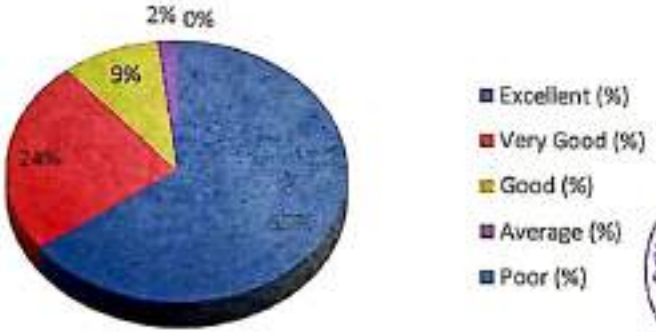
**Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?**



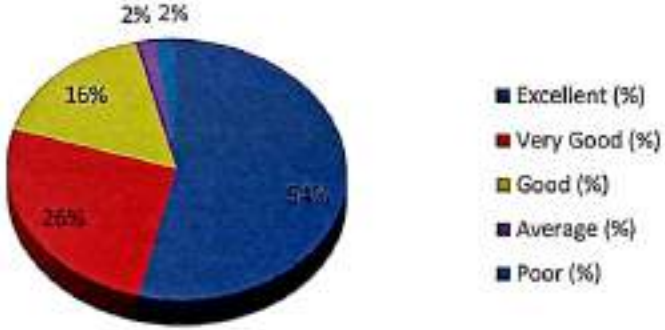

**Q.2 How do you rate the relevance of the units in syllabus significant to the course?**




**Q.3 How do you rate the electives offered in relation to the technological advancements?**



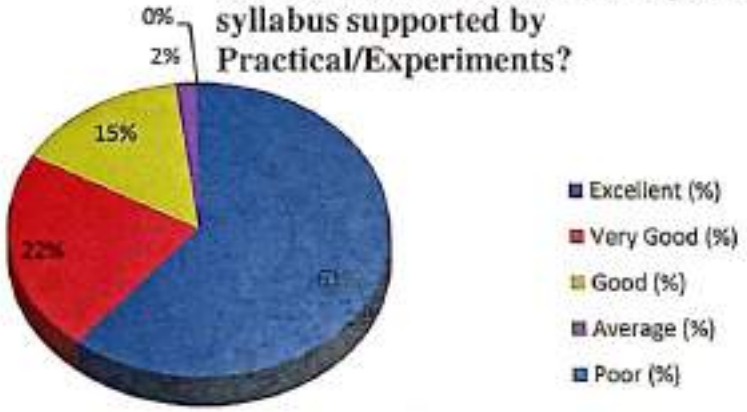

**Q.4 Rate the courses in terms of extra learning or self learning considering the design of the courses?**



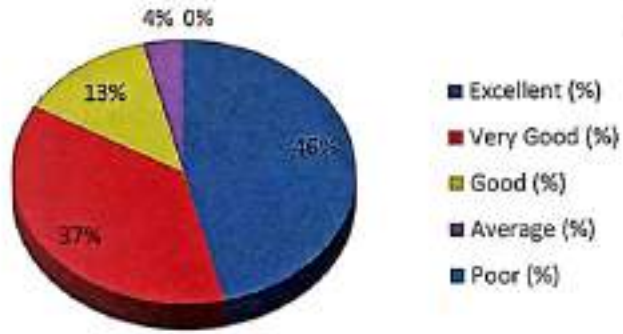

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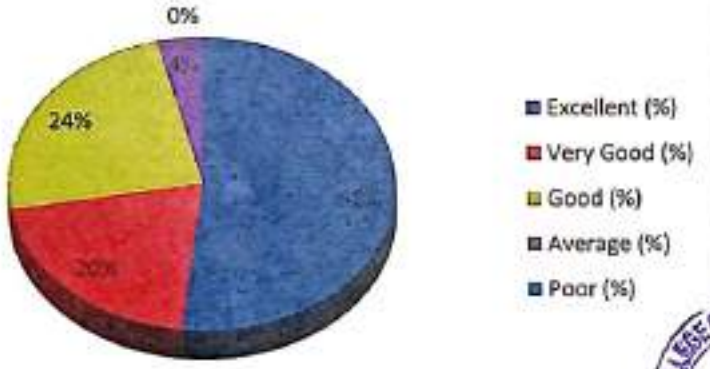
**Q.5 Rate the theoretical concepts of syllabus supported by Practical/Experiments?**



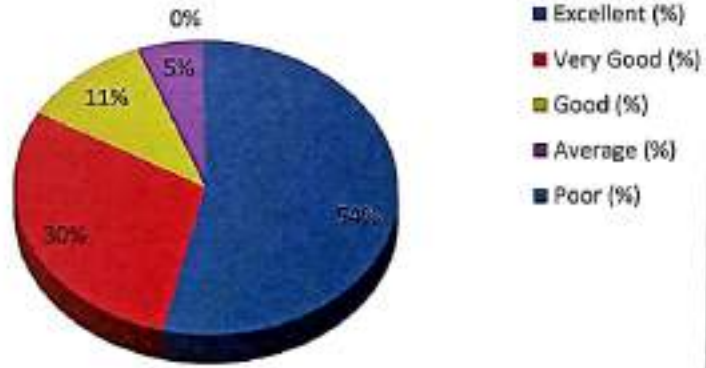

**Q.6 Rate the contents included in the syllabus with reference to professional and higher level learning skills?**




**Q.7 How do you rate the evaluation scheme designed for each of the course?**



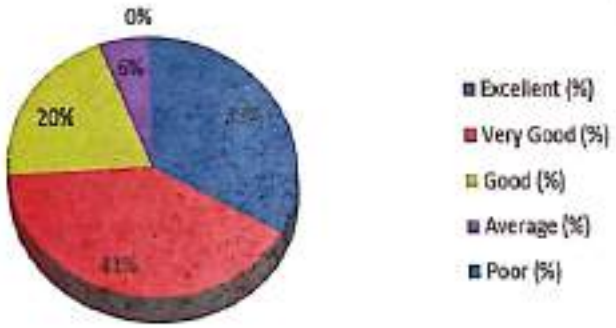

**Q.8 How do you rate the sequence of the courses in the curriculum?**



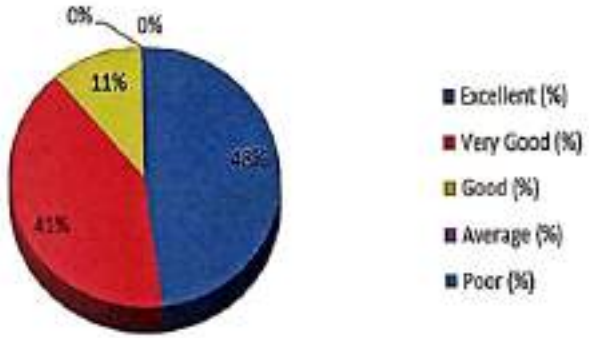

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**Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning?**




**Q.10 How do you rate the books listed as referencematerials are relevant, updated and appropriate?**




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## B. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

Total Responses = 7

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 0.0 | 0.0 | 14.3 | 71.4 | 14.3 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0.0 | 14.3 | 0.0 | 28.6 | 57.1 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 0.0 | 0.0 | 14.3 | 42.9 | 42.9 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0.0 | 0.0 | 0.0 | 42.9 | 57.1 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 0.0 | 0.0 | 0.0 | 85.7 | 14.3 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 0.0 | 0.0 | 0.0 | 42.9 | 57.1 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 0.0 | 0.0 | 0.0 | 85.7 | 14.3 |
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0.0 | 0.0 | 14.3 | 42.9 | 42.9 |
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 0.0 | 0.0 | 0.0 | 71.4 | 28.6 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 0.0 | 0.0 | 0.0 | 57.1 | 42.9 |

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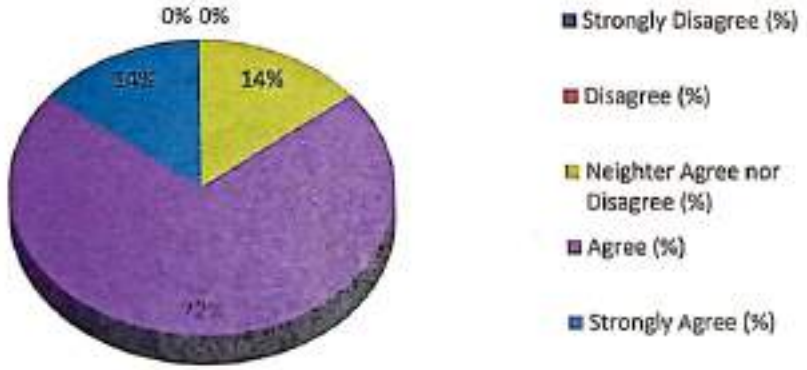
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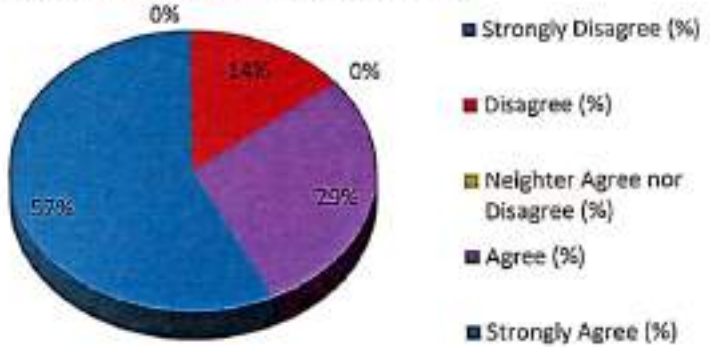
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# Analysis of Stakeholders Feedback Report

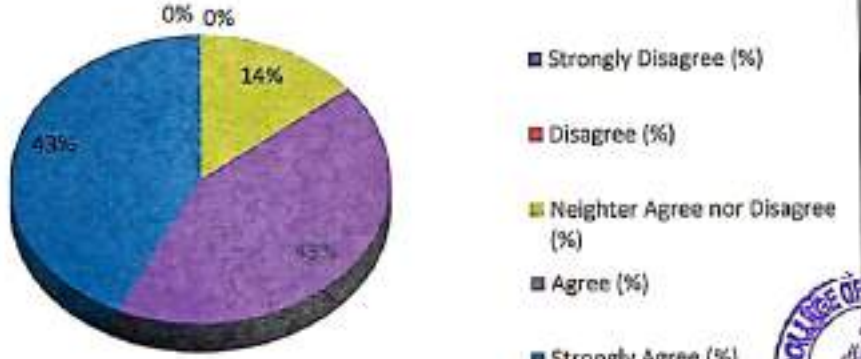
**Q.1 The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course.**



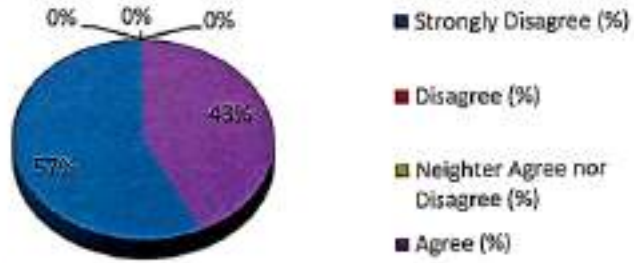

**Q.2 The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics.**




**Q.3 The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum).**



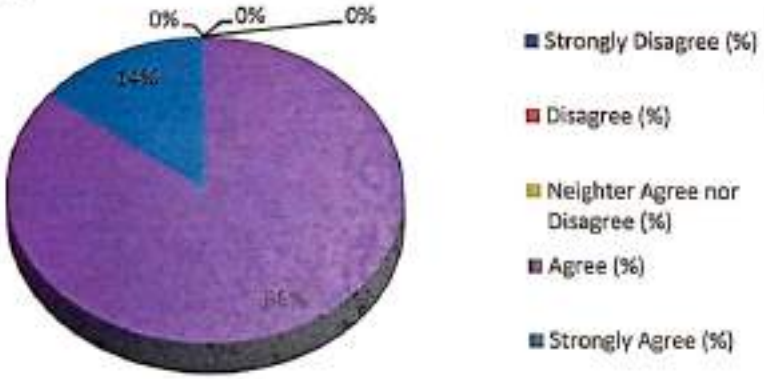

**Q.4 Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application.**



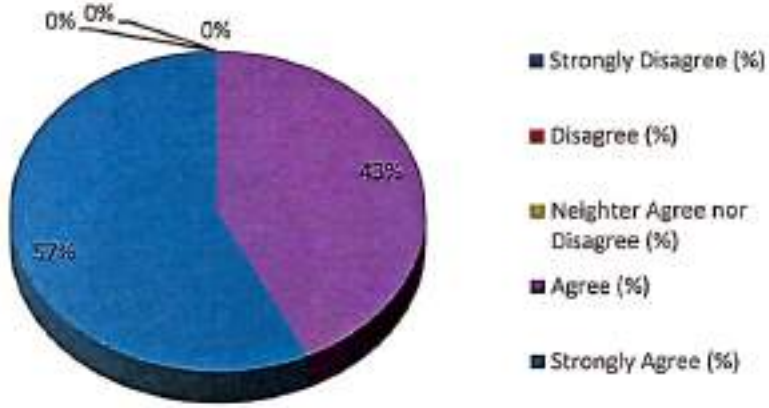

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**Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.**




**Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.**




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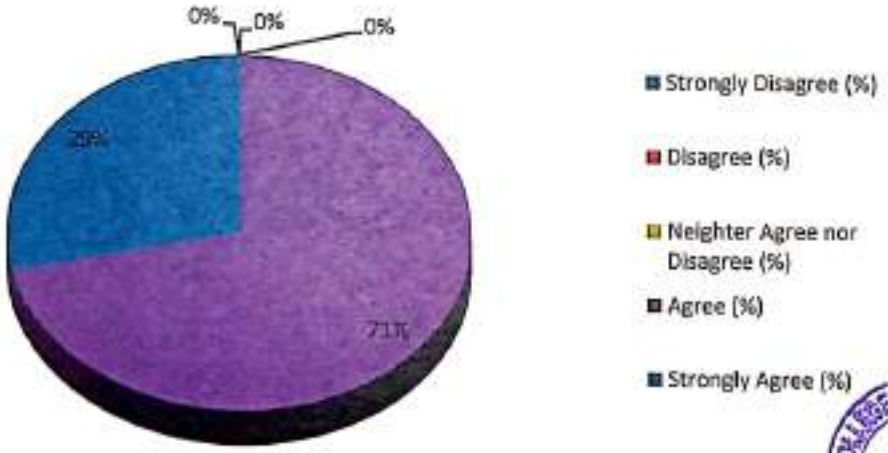
**Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social...**



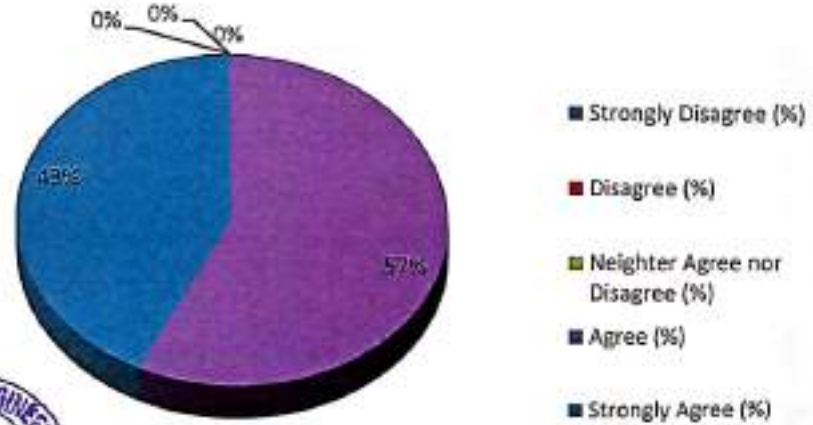

**Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.**




**Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.**




**Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.**




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## C. Analysis of Alumni Feedback on the Syllabus and its Transaction at the Institution

**Total Responses = 10**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.) | 60.0 | 30.0 | 10.0 | 0.0 | 0.0 |
| 2. | The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application. | 30.0 | 30.0 | 30.0 | 10.0 | 0.0 |
| 3. | Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering. | 30.0 | 30.0 | 30.0 | 10.0 | 0.0 |
| 4. | The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations. | 30.0 | 30.0 | 40.0 | 0.0 | 0.0 |
| 5. | Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable. | 30.0 | 30.0 | 40.0 | 0.0 | 0.0 |
| 6. | The books prescribed/listed as reference materials are relevant, updated and appropriate. | 70.0 | 30.0 | 0.0 | 0.0 | 0.0 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 10.0 | 30.0 | 50.0 | 10.0 | 0.0 |
| 8. | The course enabled to build your future career. | 50.0 | 30.0 | 20.0 | 0.0 | 0.0 |

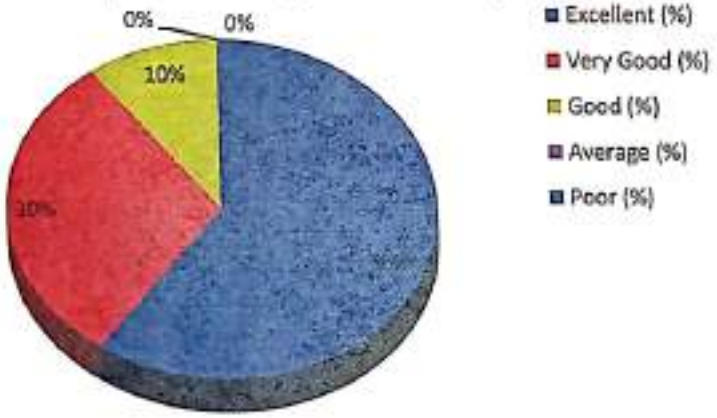
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B. Range

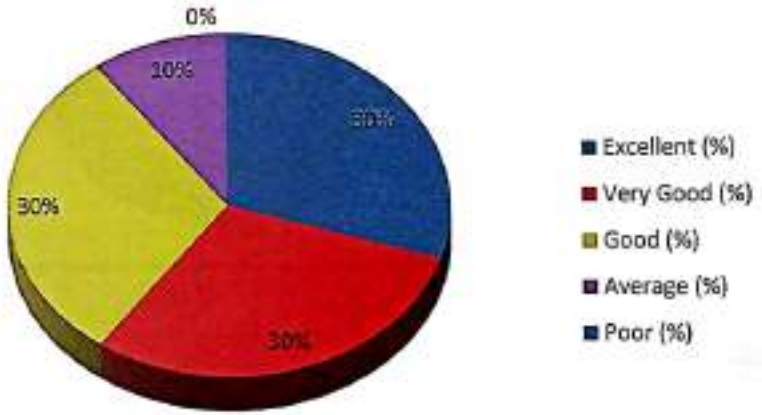
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**Q.1 Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.)**




**Q.2 The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application.**

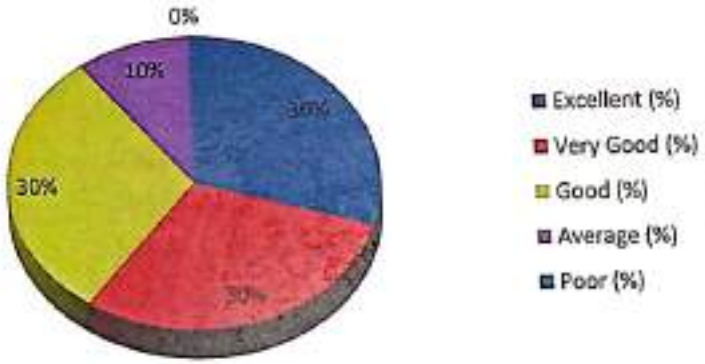



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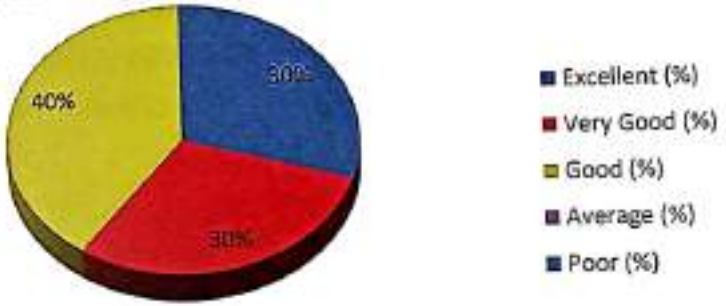
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# Analysis of Stakeholders Feedback Report

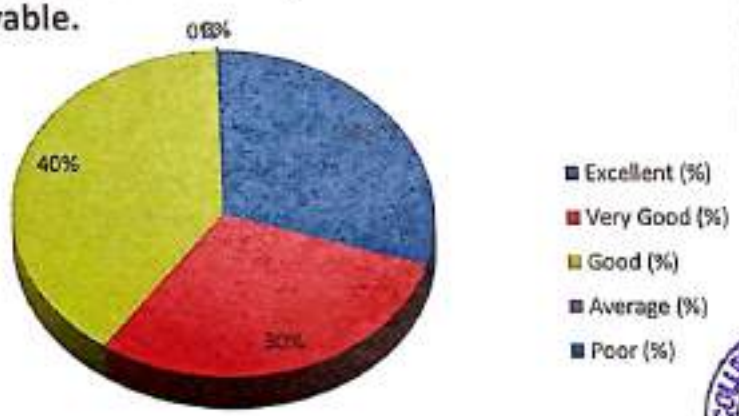
**Q.3 Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering.**



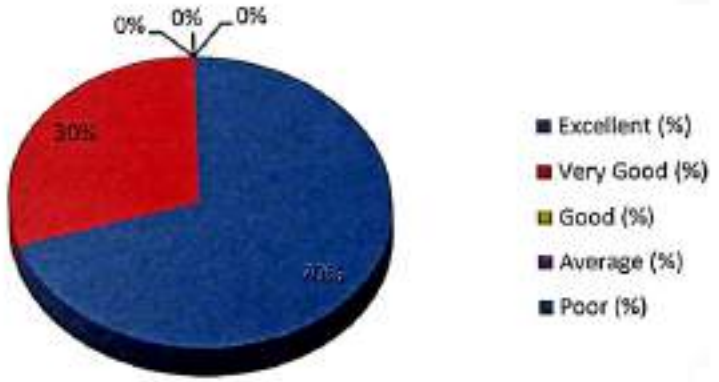

**Q.4 The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytic al abilities, applicability, relevance and practical orientation to real life situations.**




**Q.5 Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable.**




**Q.6 The books prescribed/listed as reference materials are relevant, updated and appropriate.**



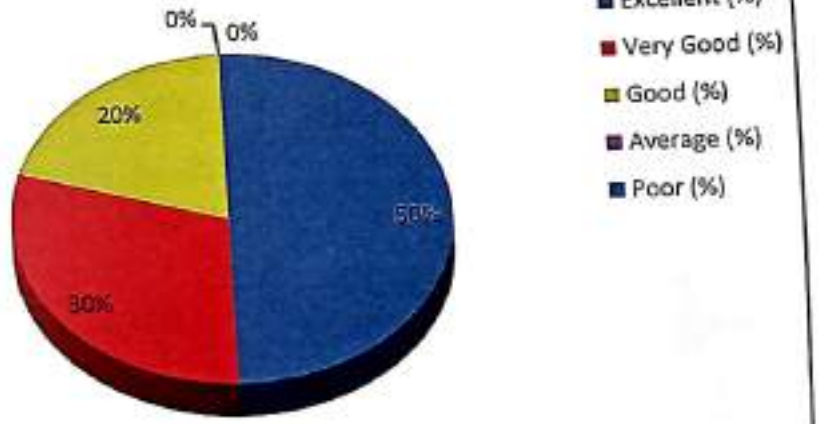

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**Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.**




**Q.8 The course enabled to build your future career.**




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## D. Analysis of Employers Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =05**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Current Curriculum of all Programmes is relevant for employability. | 20.0 | 0.0 | 20.0 | 60.0 | 0.0 |
| 2. | Curriculum bridges the gap between Industry and Academic. | 0.0 | 40.0 | 60.0 | 0.0 | 0.0 |
| 3. | Current curriculum offers need based and meets to the expectations of industry. | 0.0 | 0.0 | 0.0 | 60.0 | 40.0 |
| 4. | Curriculum has enriched content which fulfils required orientation human resources. | 0.0 | 0.0 | 0.0 | 60.0 | 40.0 |
| 5. | Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation. | 0.0 | 0.0 | 20.0 | 60.0 | 20.0 |
| 6. | Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization. | 0.0 | 0.0 | 0.0 | 60.0 | 40.0 |
| 7. | Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise. | 0.0 | 0.0 | 0.0 | 40.0 | 60.0 |
| 8. | Curriculum helps in edifice ability and motivation to the students for involvement in social activities. | 0.0 | 0.0 | 0.0 | 80.0 | 20.0 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 9. | Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team. | 0.0 | 0.0 | 0.0 | 40.0 | 60.0 |
| 10. | Curriculum show signs of independent thinking of students and appreciation of ethical values in their career. | 0.0 | 0.0 | 0.0 | 60.0 | 40.0 |

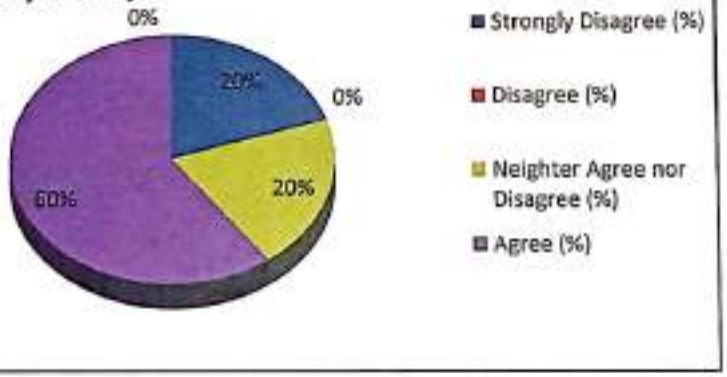
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College of Engineering
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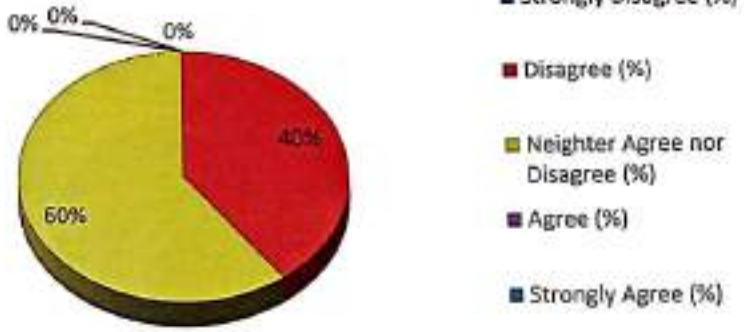
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# Analysis of Stakeholders Feedback Report

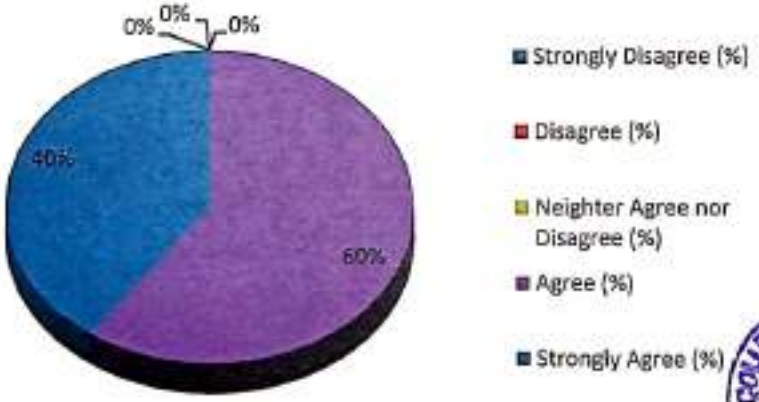
**Q.1 Current Curriculum of all Programmes is relevant for employability.**



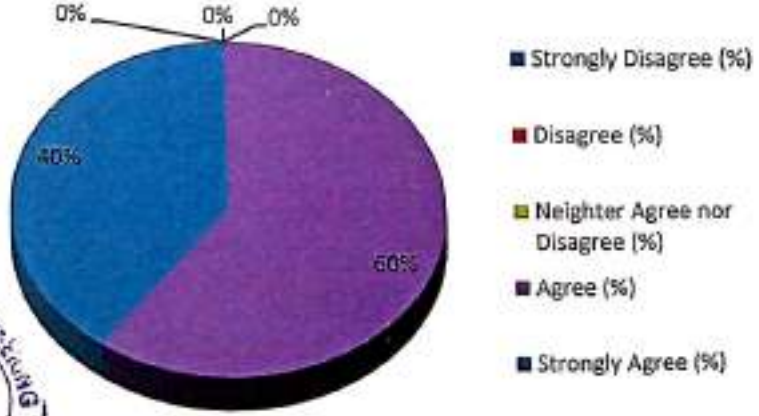

**Q.2 Curriculum bridges the gap between Industry and Academic.**




**Q.3 Current curriculum offers need based and meets to the expectations of industry.**



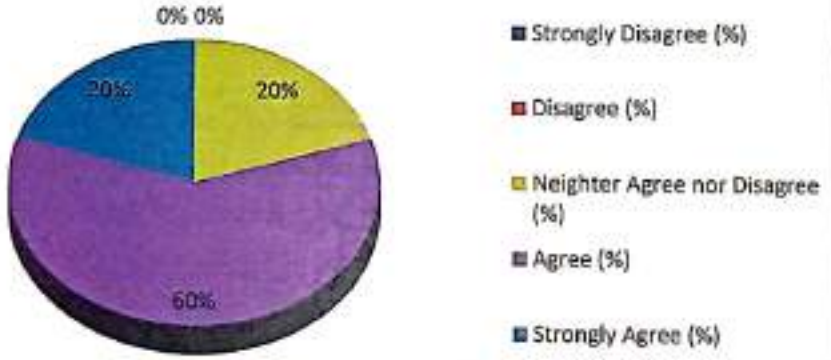

**Q.4 Curriculum has enriched content which fulfils required orientation human resources.**



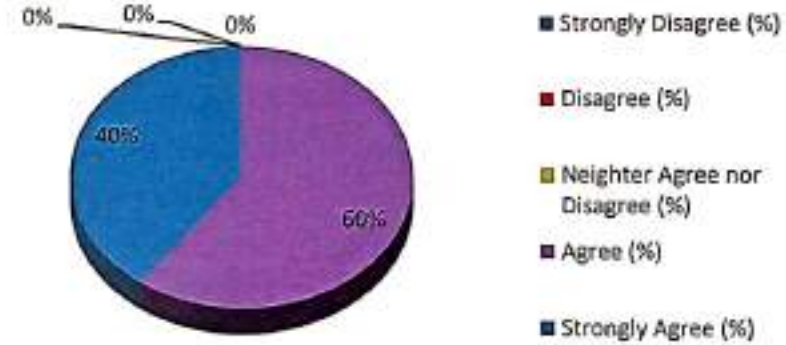

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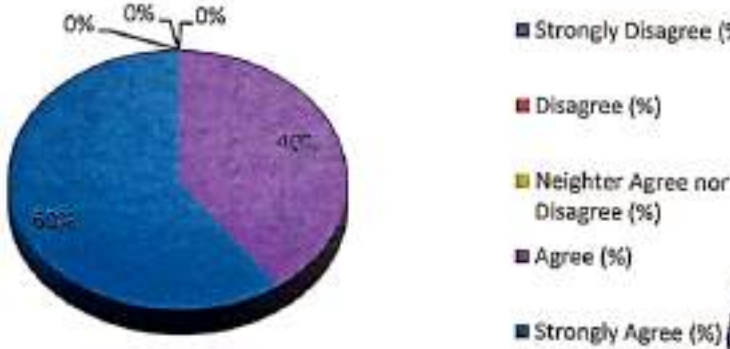
**Q.5 Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation.**



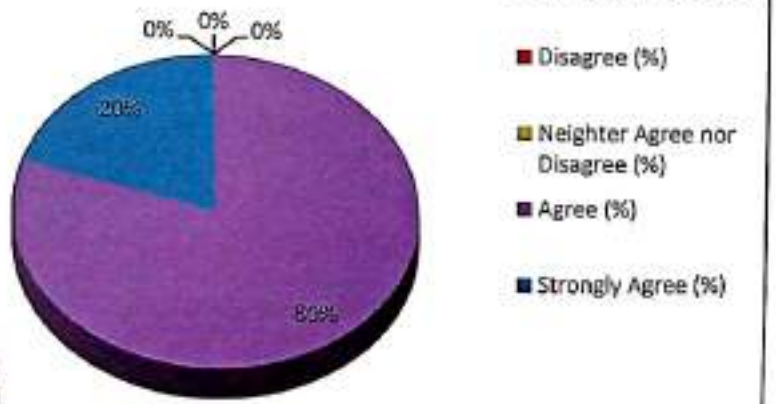

**Q.6 Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization..**




**Q.7 Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise.**



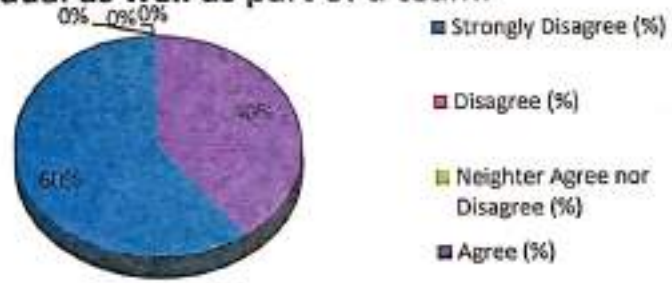

**Q.8 Curriculum helps in edifice ability and motivation to the students for involvement in social activities.**



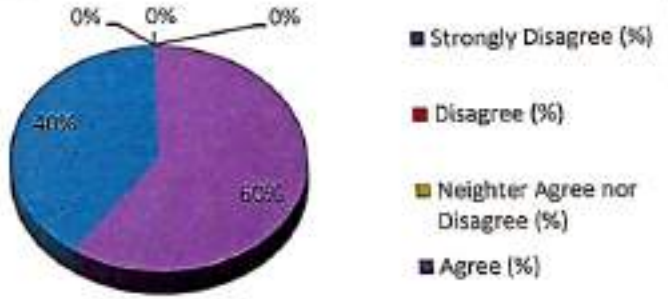

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**Q.9 Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team.**




**Q.10 Curriculum show signs of independent thinking of students and appreciation of ethical values in their career.**




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# SVERI's College of Engineering, Pandharpur

## Department of MBA

## Analysis of Feedback Report

**Academic Year: 2018-2019**

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## A. Analysis of Students' Feedback Report:

**Total Responses =53**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 54.7 | 20.8 | 9.4 | 7.5 | 7.5 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 30.2 | 43.4 | 11.3 | 9.4 | 5.7 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 28.3 | 49.1 | 17.0 | 3.8 | 1.9 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 24.5 | 39.6 | 24.5 | 7.5 | 3.8 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 30.2 | 34.0 | 30.2 | 3.8 | 1.9 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 30.2 | 34.0 | 30.2 | 3.8 | 1.9 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 28.3 | 39.6 | 26.4 | 5.7 | 0.0 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 28.3 | 45.3 | 18.9 | 5.7 | 1.9 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 34.0 | 41.5 | 20.8 | 3.8 | 0.0 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 20.8 | 56.6 | 15.1 | 1.9 | 5.7 |

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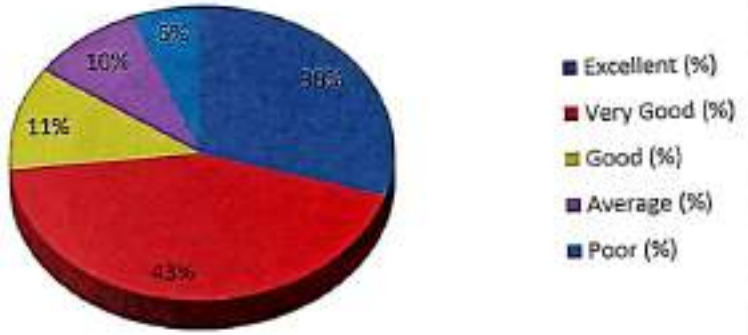
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# Analysis of Stakeholders Feedback Report

**Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?**



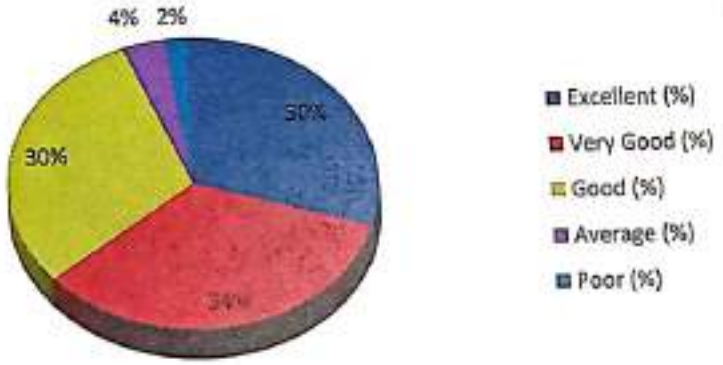

**Q.2 How do you rate the relevance of the units in syllabus significant to the course?**



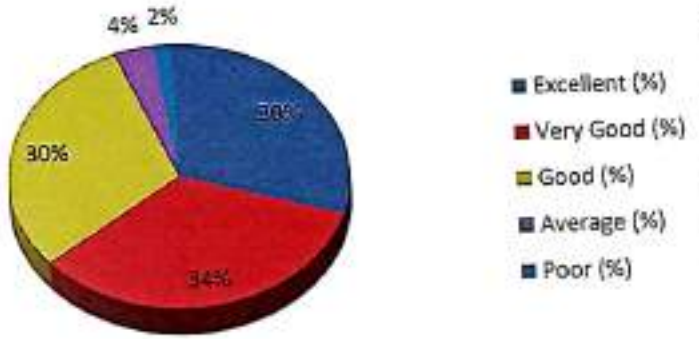

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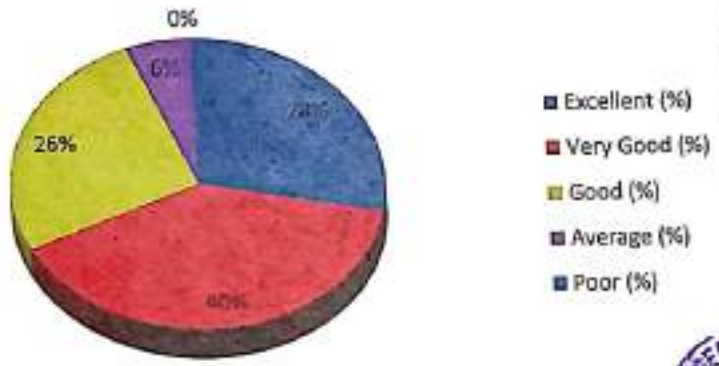
**Q.5 Rate the theoretical concepts of syllabus supported by Practical/Experiments?**



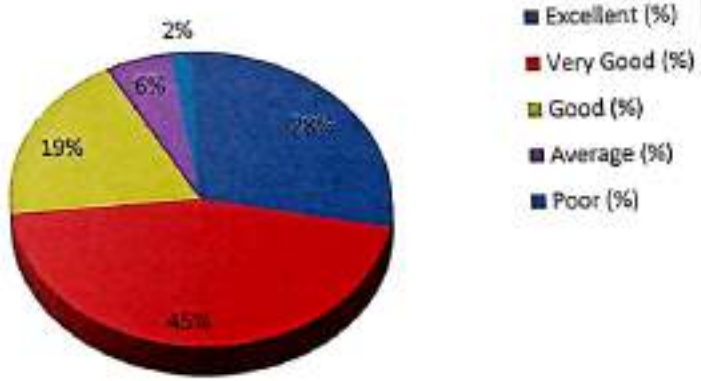

**Q.6 Rate the contents included in the syllabus with reference to professional and higher level learning skills?**




**Q.7 How do you rate the evaluation scheme designed for each of the course?**



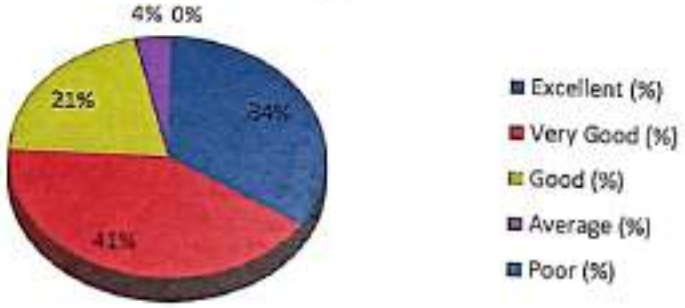

**Q.8 How do you rate the sequence of the courses in the curriculum?**



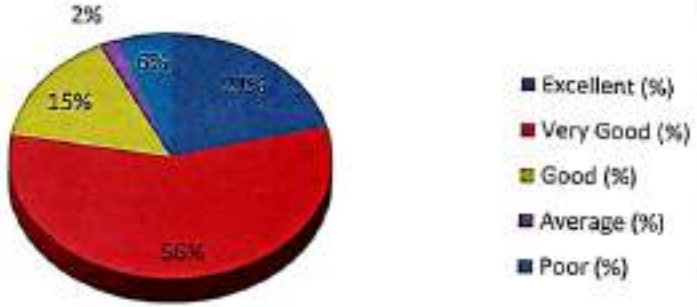

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**Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning?**




**Q.10 How do you rate the books listed as referencematerials are relevant, updated and appropriate?**




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## B. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =20**

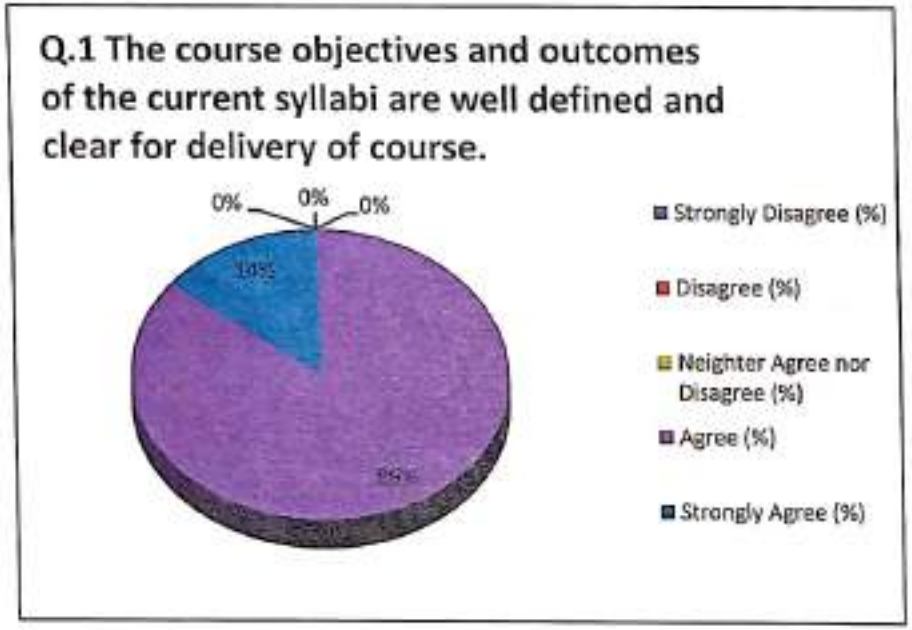
| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 0.0 | 0.0 | 0.0 | 85.7 | 14.3 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0.0 | 14.3 | 0.0 | 42.9 | 42.9 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 0.0 | 14.3 | 14.3 | 28.6 | 42.9 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0.0 | 0.0 | 0.0 | 71.4 | 28.6 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 0.0 | 0.0 | 14.3 | 57.1 | 28.6 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 0.0 | 0.0 | 0.0 | 42.9 | 57.1 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 0.0 | 0.0 | 0.0 | 85.7 | 14.3 |
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0.0 | 0.0 | 0.0 | 42.9 | 57.1 |

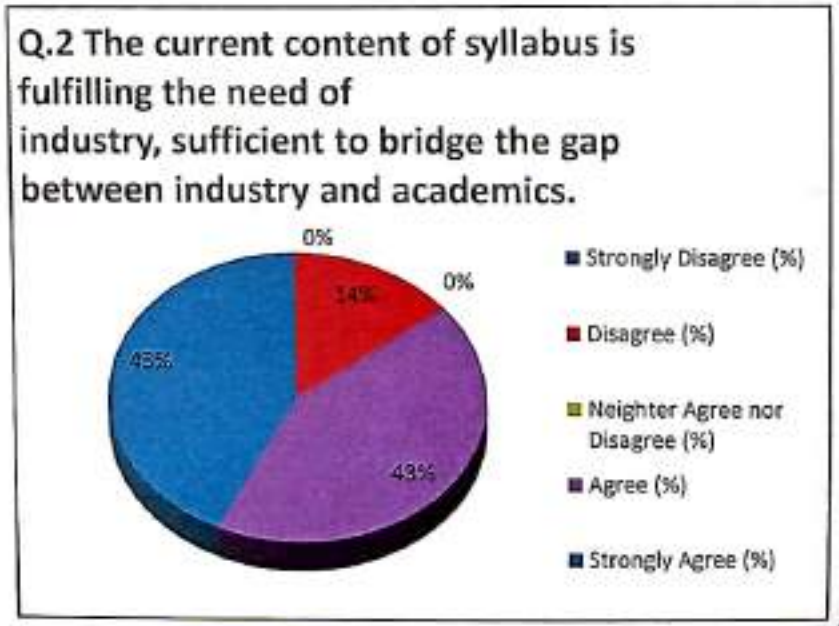
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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 0.0 | 0.0 | 0.0 | 85.7 | 14.3 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 0.0 | 0.0 | 0.0 | 42.9 | 57.1 |



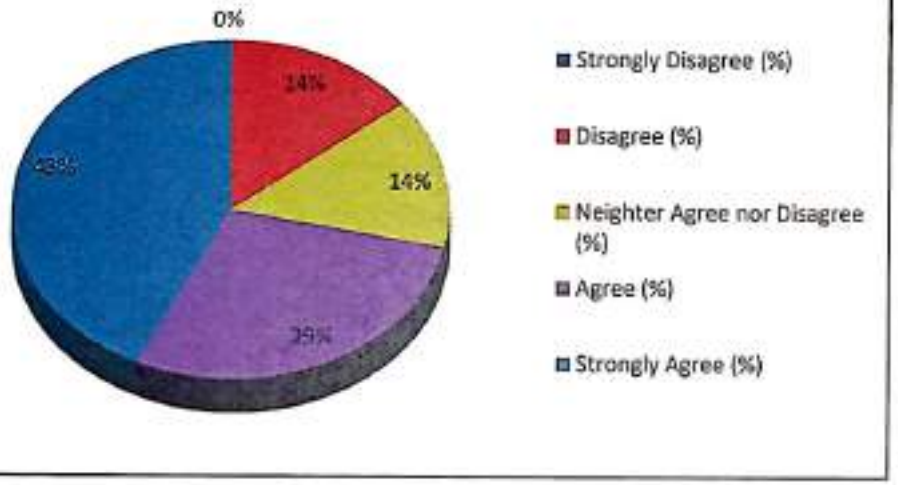




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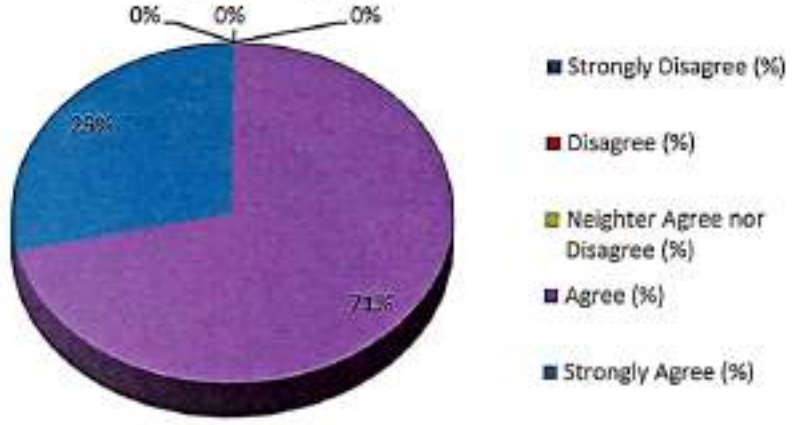
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**Q.3 The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum).**



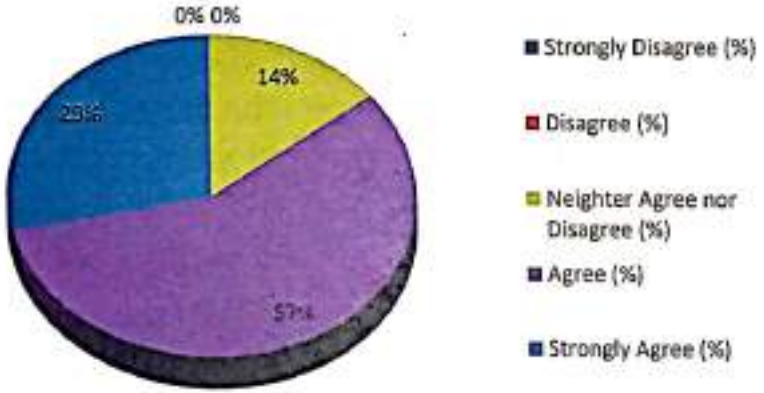

**Q.4 Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application.**



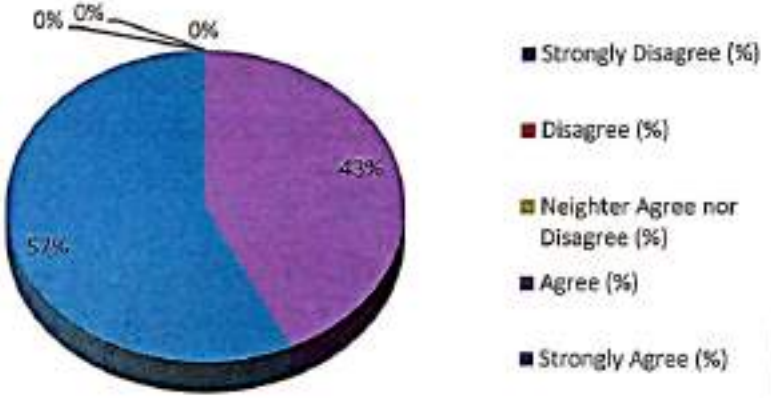

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**Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.**



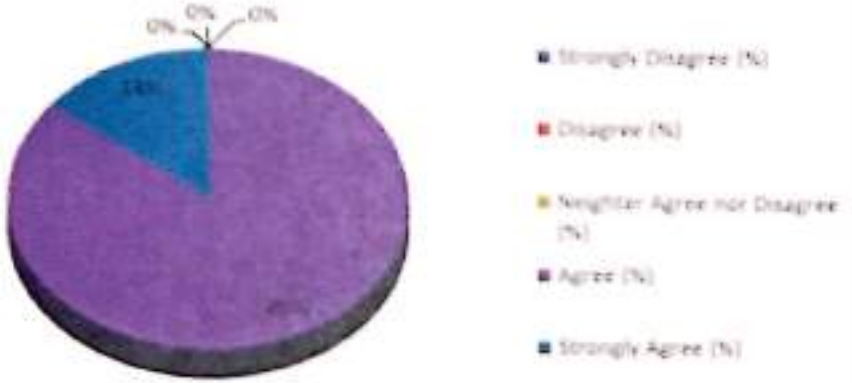

**Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.**



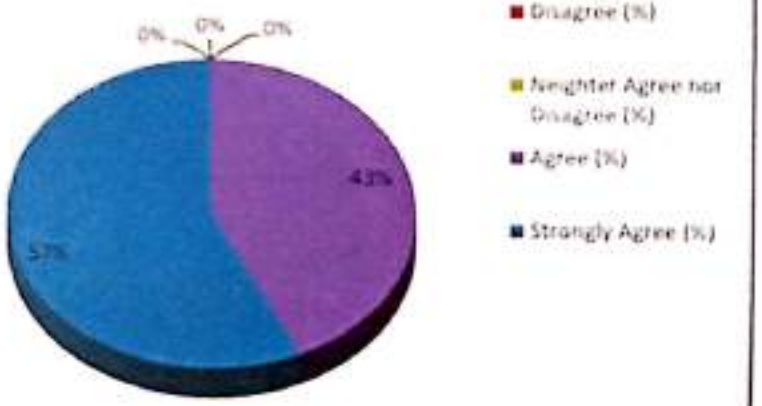

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Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.

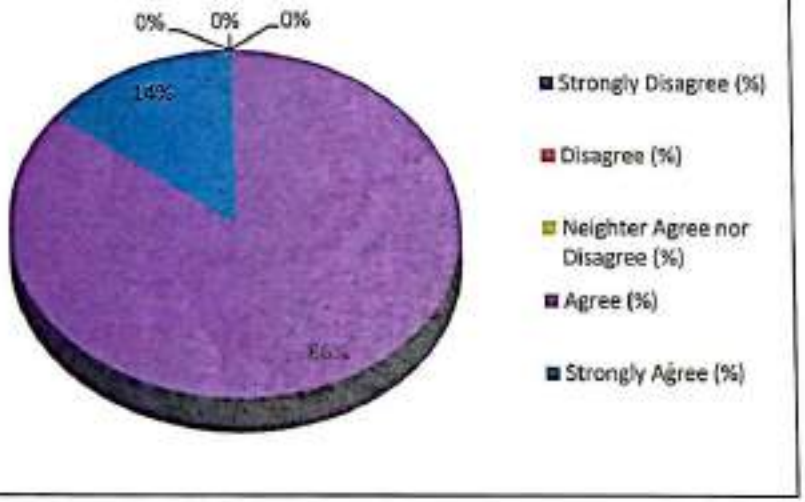



Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.

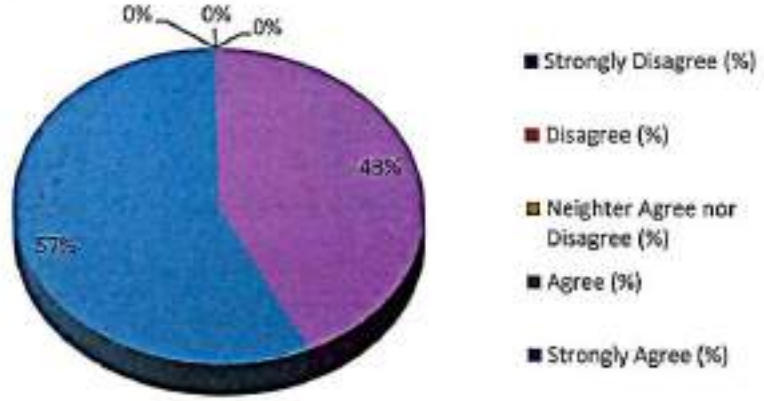



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**Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.**




**Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.**




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## C. Analysis of Alumni Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =10**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.) | 60.0 | 30.0 | 30.0 | 0.0 | 0.0 |
| 2. | The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application. | 20.0 | 10.0 | 70.0 | 0.0 | 0.0 |
| 3. | Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering. | 30.0 | 20.0 | 50.0 | 0.0 | 0.0 |
| 4. | The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, analytical abilities, applicability, relevance and practical orientation to real life situations. | 30.0 | 40.0 | 30.0 | 0.0 | 0.0 |
| 5. | Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable. | 20.0 | 20.0 | 50.0 | 10.0 | 0.0 |
| 6. | The books prescribed/listed as reference materials are relevant, updated and appropriate. | 60.0 | 20.0 | 20.0 | 0.0 | 0.0 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 10.0 | 20.0 | 50.0 | 10.0 | 10.0 |
| 8. | The course enabled to build your future career. | 20.0 | 40.0 | 40.0 | 0.0 | 0.0 |

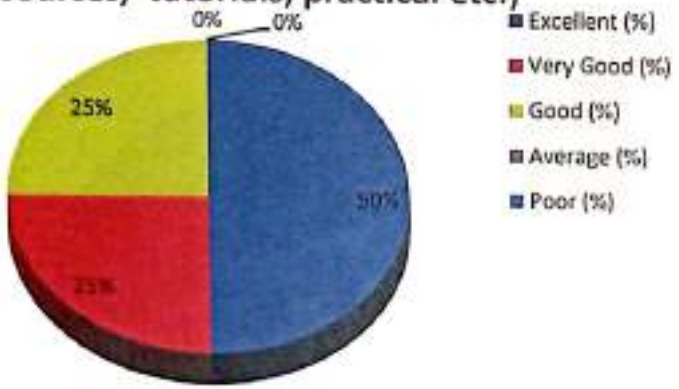
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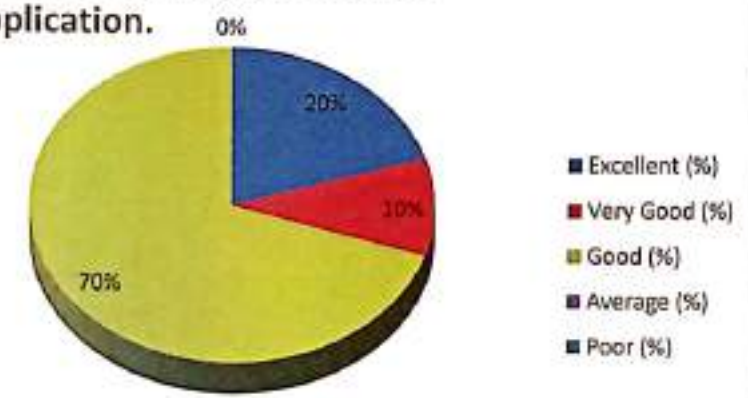
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# Analysis of Stakeholders Feedback Report

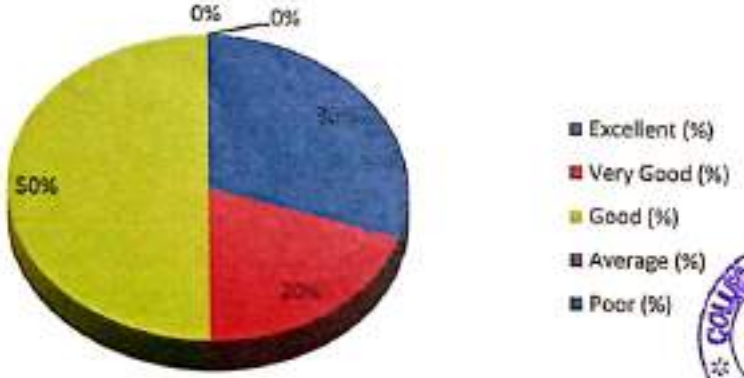
**Q.1 Course was well structured to achieve the learning outcomes (good balance of lectures, learning resources, tutorials, practical etc.)**



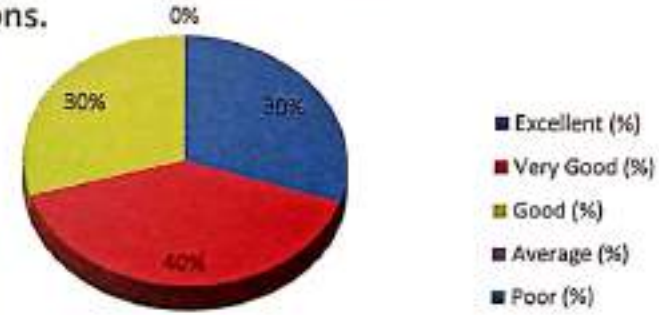

**Q.2 The syllabus was need based; Emphasis on fundamentals, coverage of modern/ advanced topics, good balance between theory and application.**




**Q.3 Current syllabus is adequately covers contemporary issues/emerging global and national trends in engineering.**



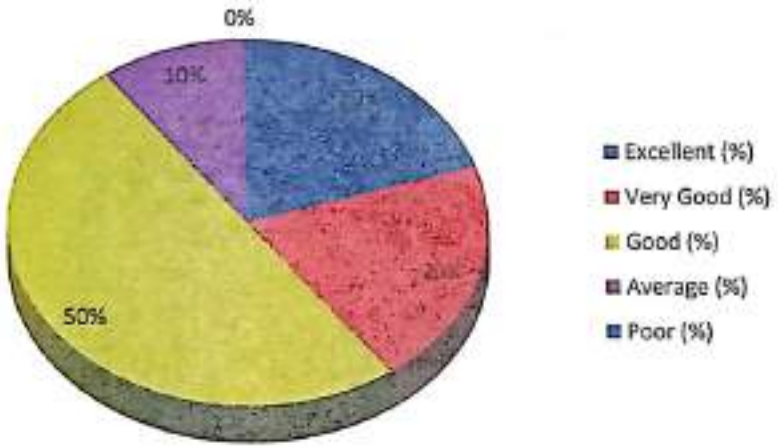

**Q.4 The syllabus meets the expectations in terms of learning values, skills, knowledge, attitude, anal ytical abilities, applicability, relevance and practical orientation to real life situations.**



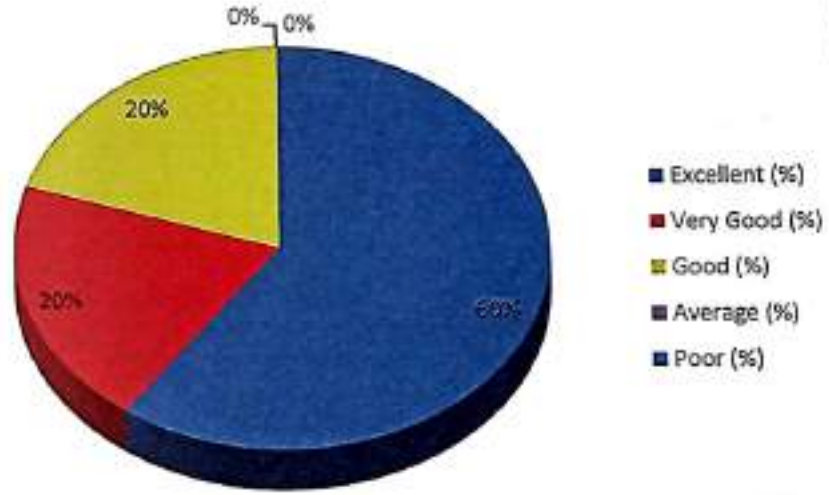

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**Q.5 Expectations about the course (Enhance by skill/knowledge base, better career opportunities etc) were achievable.**




**Q.6 The books prescribed/listed as reference materials are relevant, updated and appropriate.**



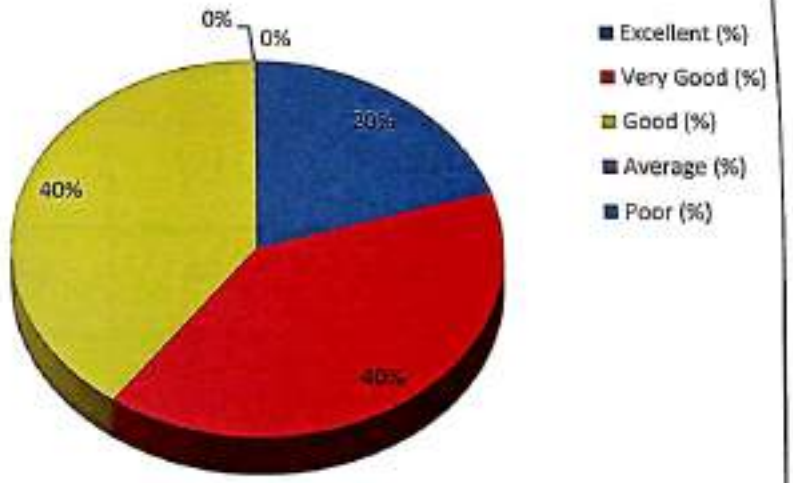

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**Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.**




**Q.8 The course enabled to build your future career.**




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# Analysis of Employers Feedback on the Syllabus and its Transaction at the Institution

**Total Responses =05**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Current Curriculum of all Programmes is relevant for employability. | 0.0 | 0.0 | 20.0 | 60.0 | 20.0 |
| 2. | Curriculum bridges the gap between Industry and Academic. | 20.0 | 20.0 | 0.0 | 20.0 | 40.0 |
| 3. | Current curriculum offers need based and meets to the expectations of industry. | 0.0 | 20.0 | 0.0 | 60.0 | 20.0 |
| 4. | Curriculum has enriched content which fulfils required orientation human resources. | 0.0 | 0.0 | 20.0 | 60.0 | 20.0 |
| 5. | Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation. | 0.0 | 0.0 | 20.0 | 60.0 | 20.0 |
| 6. | Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization. | 0.0 | 20.0 | 0.0 | 40.0 | 40.0 |
| 7. | Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise. | 0.0 | 20.0 | 20.0 | 20.0 | 40.0 |

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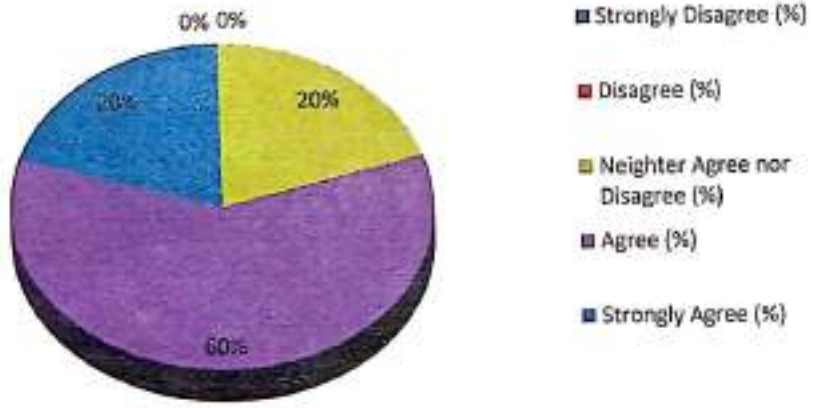
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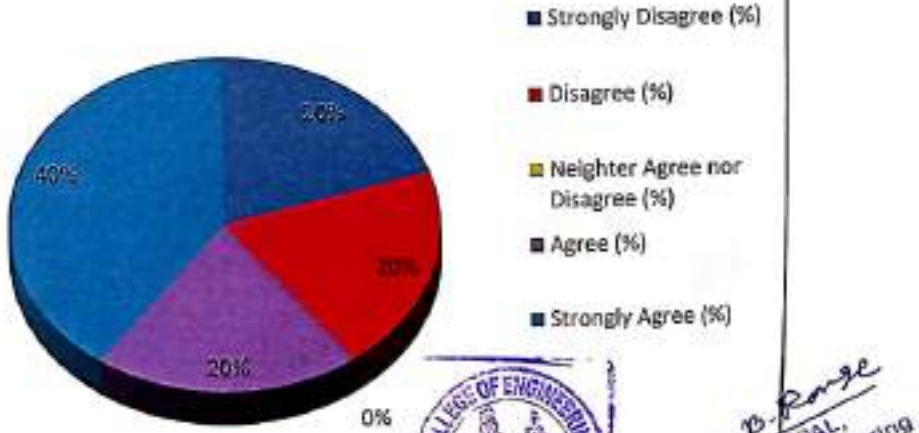
# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 8. | Curriculum helps in edifice ability and motivation to the students for involvement in social activities. | 0.0 | 20.0 | 20.0 | 20.0 | 40.0 |
| 9 | Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team. | 0.0 | 0.0 | 20.0 | 40.0 | 40.0 |
| 10 | Curriculum show signs of independent thinking of students and appreciation of ethical values in their career. | 0.0 | 20.0 | 0.0 | 40.0 | 40.0 |

**Q.1 Current Curriculum of all Programmes is relevant for employability.**




**Q.2 Curriculum bridges the gap between Industry and Academic.**

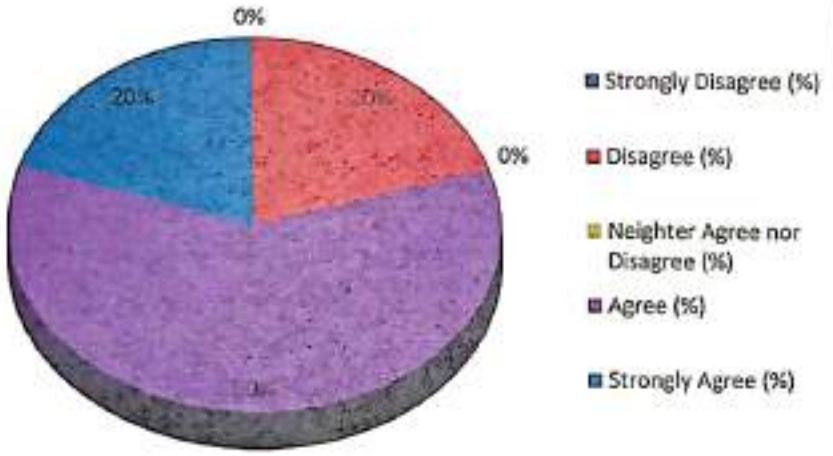



COLLEGE OF ENGINEERING PANDHARPUR

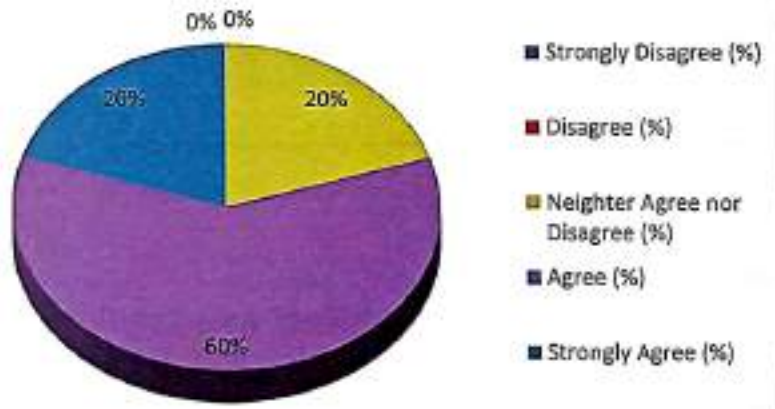
PRINCIPAL, College of Engineering PANDHARPUR

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**Q.3 Current curriculum offers need based and meets to the expectations of industry.**



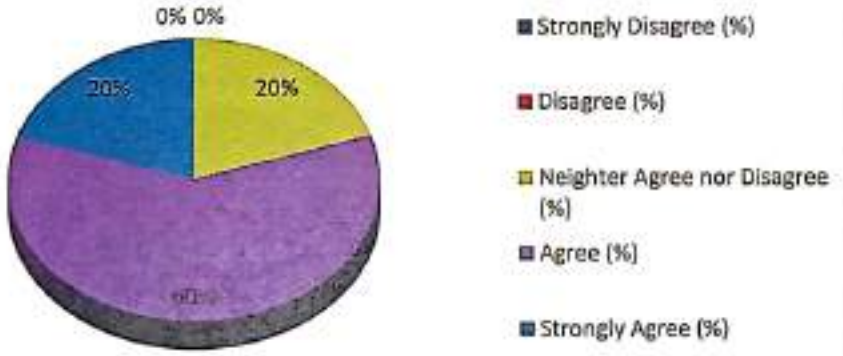

**Q.4 Curriculum has enriched content which fulfils required orientation human resources.**



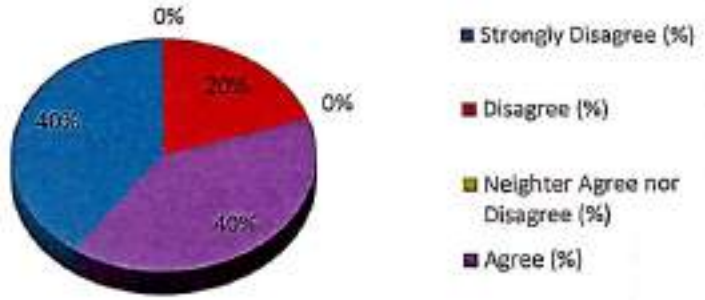

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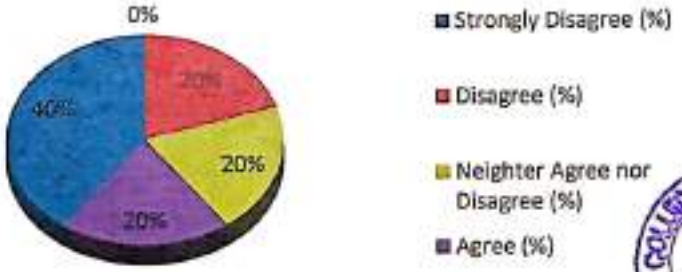
**Q.5 Curriculum has application based courses which caters the needs of industry in terms of knowledge, skills, attitude and innovation.**



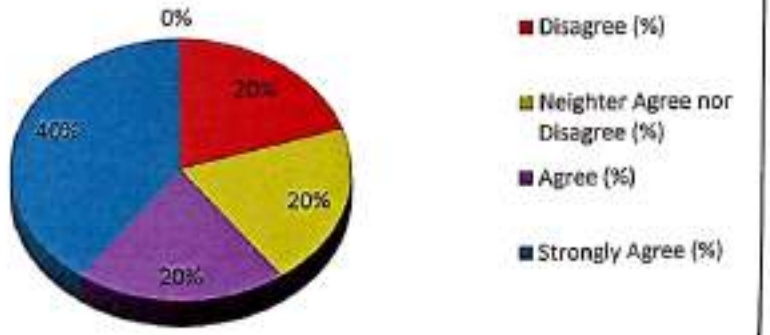

**Q.6 Curriculum caters the need of industry and helps in building efficiency and effectiveness of organization..**




**Q.7 Curriculum helps in building an entrepreneurial motive which helps to the students for starting their business enterprise.**



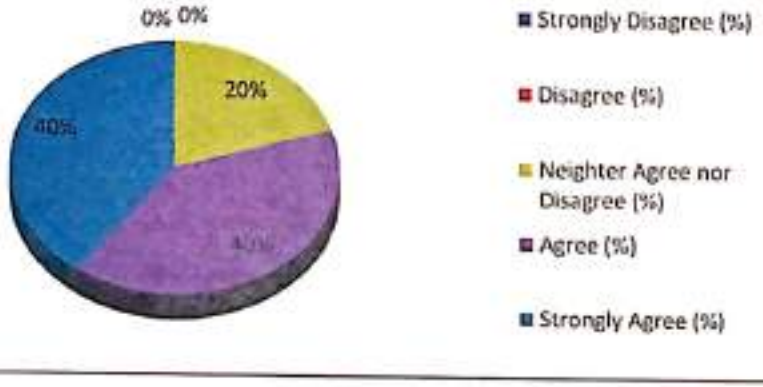

**Q.8 Curriculum helps in edifice ability and motivation to the students for involvement in social activities.**



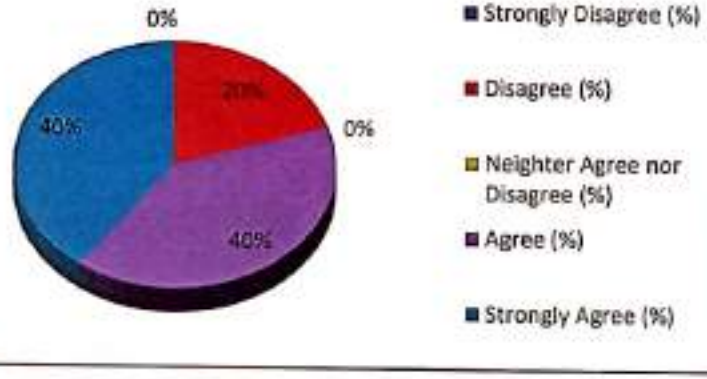

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**Q.9 Curriculum exhibits to the students in communication skills and ability to function effectively as an individual as well as part of a team.**




**Q.10 Curriculum show signs of independent thinking of students and appreciation of ethical values in their career.**




COLLEGE OF ENGINEERING PANDHARPUR

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# SVERI's College of Engineering, Pandharpur

## Department of Electrical Engineering

## Analysis of Feedback Report

**Academic Year: 2019-2020**

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## A. Analysis of Students' Feedback Report:

**Total Responses =68**

| Sr. No. | Particular | Excellent (%) | Very Good (%) | Good (%) | Average (%) | Poor (%) |
|---|---|---|---|---|---|---|
| 1. | Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course? | 72.1 | 13.2 | 14.7 | 0.0 | 0.0 |
| 2. | How do you rate the relevance of the units in syllabus significant to the course? | 16.2 | 77.9 | 5.9 | 0.0 | 0.0 |
| 3. | How do you rate the electives offered in relation to the technological advancements? | 39.7 | 42.6 | 17.6 | 0.0 | 0.0 |
| 4. | Rate the courses in terms of extra learning or self learning considering the design of the courses? | 26.5 | 63.2 | 10.3 | 0.0 | 0.0 |
| 5. | Rate the theoretical concepts of syllabus supported by Practical/Experiments? | 35.3 | 54.4 | 10.3 | 0.0 | 0.0 |
| 6. | Rate the contents included in the syllabus with reference to professional and higher level learning skills? | 19.1 | 64.7 | 16.2 | 0.0 | 0.0 |
| 7. | How do you rate the evaluation scheme designed for each of the course? | 35.3 | 50.0 | 14.7 | 0.0 | 0.0 |
| 8. | How do you rate the sequence of the courses in the curriculum? | 33.8 | 50.0 | 16.2 | 0.0 | 0.0 |
| 9. | Rate the satisfaction level of curriculum design as per the requirement of employability / higher learning? | 33.8 | 48.5 | 17.6 | 0.0 | 0.0 |
| 10. | How do you rate the books listed as reference materials are relevant, updated and appropriate? | 30.9 | 38.2 | 30.9 | 0.0 | 0.0 |

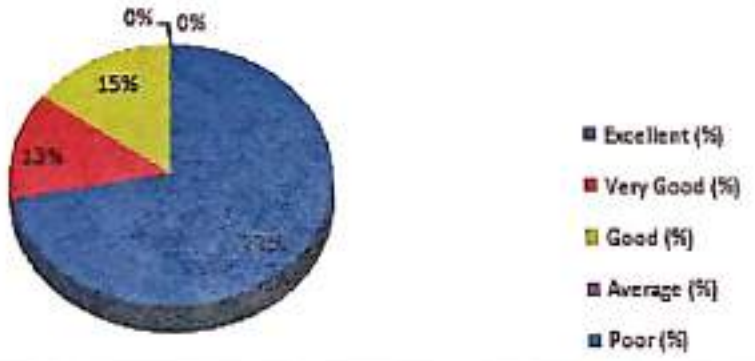
COLLEGE OF ENGINEERING PANDHARPUR

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College of Engineering,
PANDHARPUR

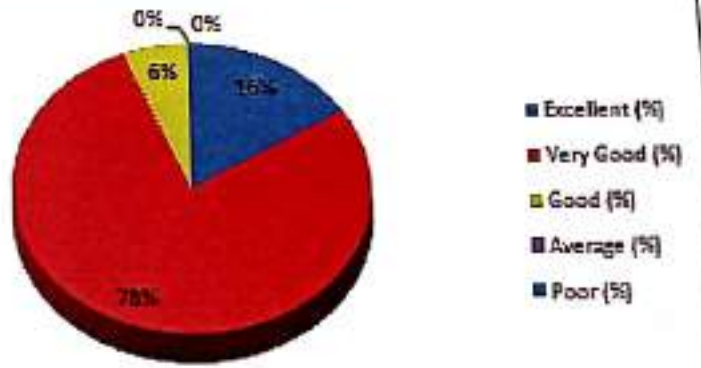
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# Analysis of Stakeholders Feedback Report

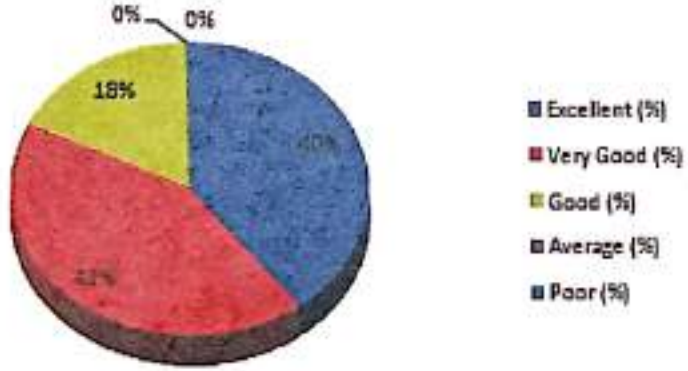
**Q.1 Rate the syllabus of the courses that you have studied in relation to the competencies expected out of the course?**



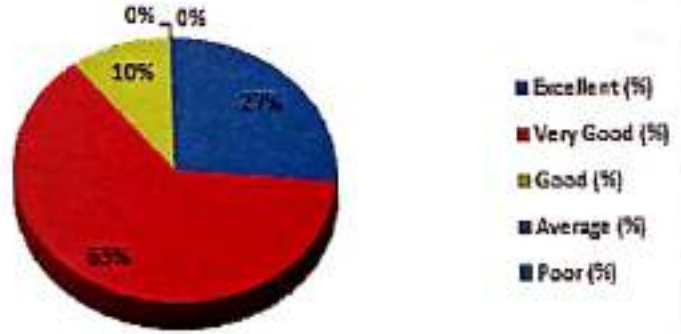

**Q.2 How do you rate the relevance of the units in syllabus significant to the course?**




**Q.3 How do you rate the electives offered in relation to the technological advancements?**



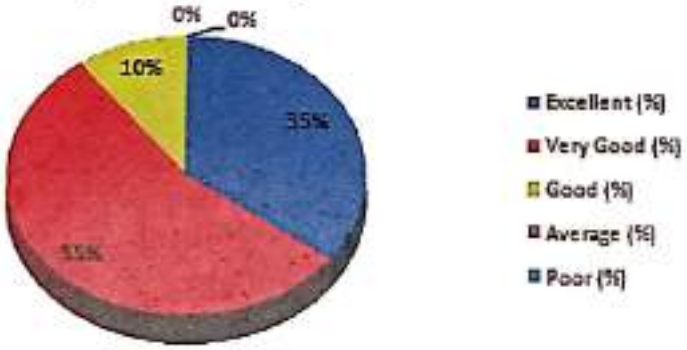

**Q.4 Rate the courses in terms of extra learning or self learning considering the design of the courses?**



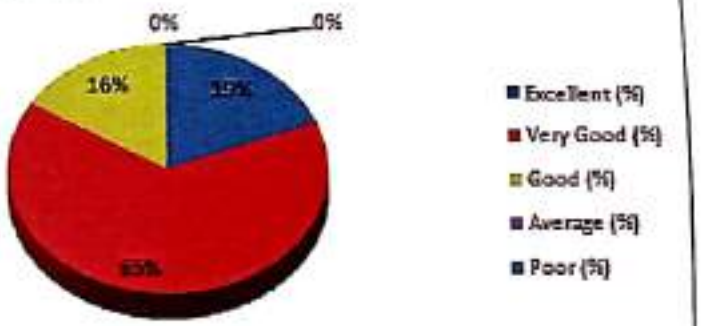

COLLEGE OF ENGINEERING PANDHARPUR

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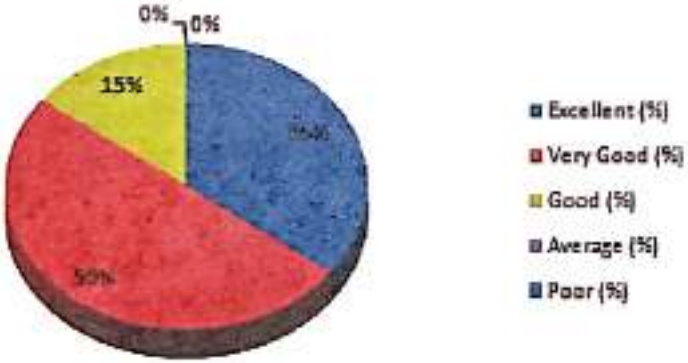
**Q.5 Rate the theoretical concepts of syllabus supported by Practical/Experiments?**



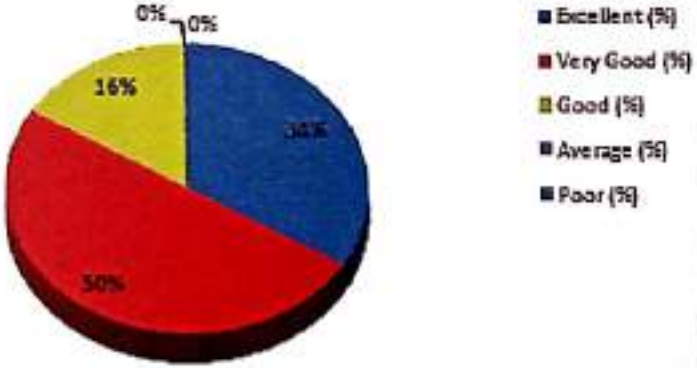

**Q.6 Rate the contents included in the syllabus with reference to professional and higher level learning skills?**




**Q.7 How do you rate the evaluation scheme designed for each of the course?**



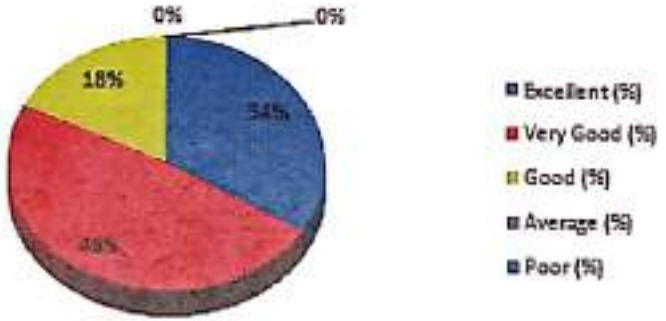

**Q.8 How do you rate the sequence of the courses in the curriculum?**



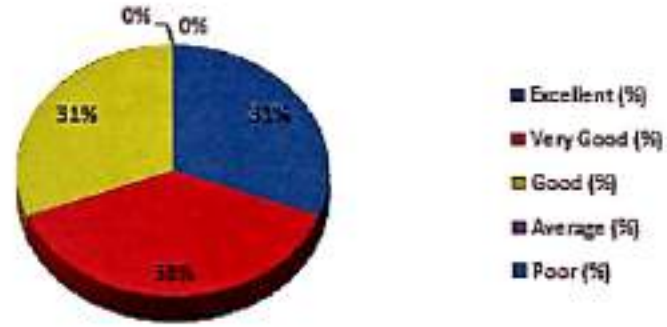

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**Q.9 Rate the satisfaction level of curriculum design as per the requirement of employability /higher learning?**




**Q.10 How do you rate the books listed as referencematerials are relevant, updated and appropriate?**




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## B. Analysis of Teachers' Feedback on the Syllabus and its Transaction at the Institution

**Department Name:- Electrical Engineering** **Academic Year: 2019-2020**

**Total Responses =09**

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 1. | The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course. | 0.0 | 0.0 | 11.1 | 66.7 | 22.2 |
| 2. | The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics. | 0.0 | 0.0 | 22.2 | 44.4 | 33.3 |
| 3. | The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum). | 0.0 | 11.1 | 22.2 | 44.4 | 22.2 |
| 4. | Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application. | 0.0 | 0.0 | 22.2 | 66.7 | 11.1 |
| 5. | Evaluation schemes designed for each of the course are sufficient for providing proper assessment. | 0.0 | 0.0 | 33.3 | 22.2 | 44.4 |
| 6. | The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments. | 0.0 | 0.0 | 22.2 | 77.8 | 0.0 |
| 7. | The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security. | 0.0 | 11.1 | 33.3 | 55.6 | 0.0 |

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# Analysis of Stakeholders Feedback Report

| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0.0 | 0.0 | 33.3 | 66.7 | 0.0 |
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 0.0 | 0.0 | 0.0 | 44.4 | 55.6 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 0.0 | 0.0 | 11.1 | 66.7 | 22.2 |




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College of Engineering
PANDHARPUR

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## Analysis of Stakeholders Feedback Report

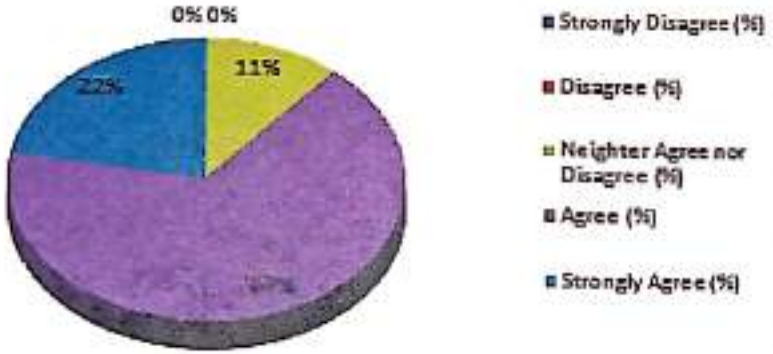
| Sr. No. | Particular | Strongly Disagree (%) | Disagree (%) | Neither Agree nor Disagree (%) | Agree (%) | Strongly Agree (%) |
|---|---|---|---|---|---|---|
| 8. | Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students. | 0.0 | 0.0 | 33.3 | 66.7 | 0.0 |
| 9. | The books/ reference materials prescribed are relevant, updated and appropriate. | 0.0 | 0.0 | 0.0 | 44.4 | 55.6 |
| 10. | The course/syllabus has enabled to update knowledge and perspective in the subject area. | 0.0 | 0.0 | 11.1 | 66.7 | 22.2 |



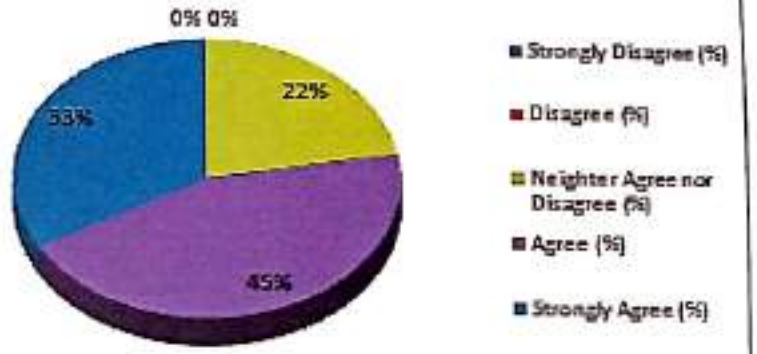

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College of Engineering
PANDHARPUR

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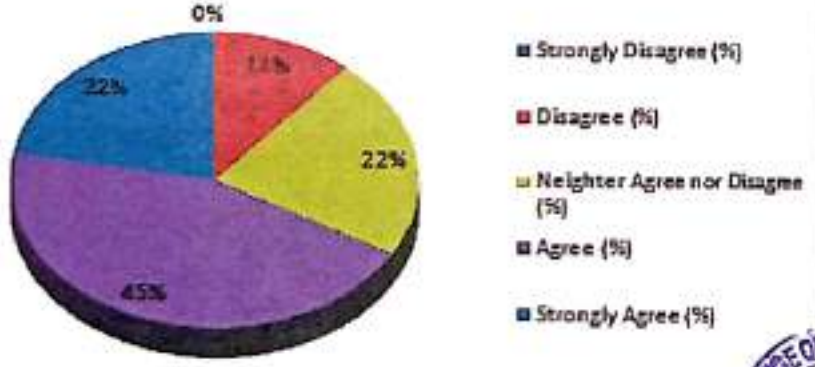
Q.1 The course objectives and outcomes of the current syllabi are well defined and clear for delivery of course.



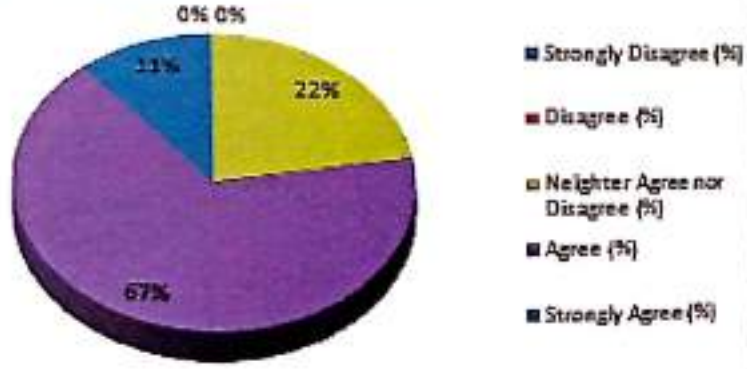

Q.2 The current content of syllabus is fulfilling the need of industry, sufficient to bridge the gap between industry and academics.




Q.3 The course is well organized (e.g. teaching hours, the sequence of the courses in the curriculum).



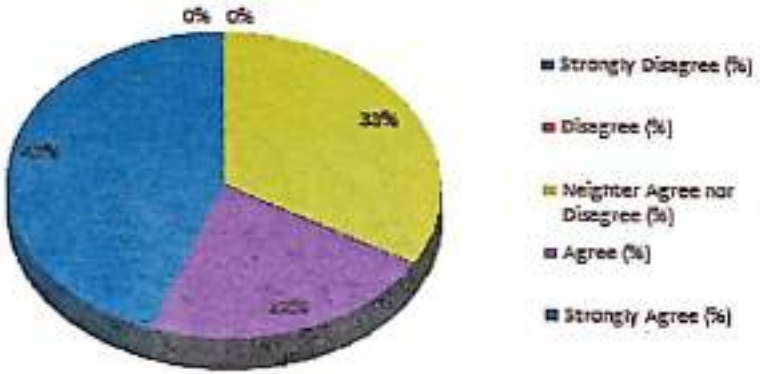

Q.4 Emphasis on fundamentals, coverage of modern/advanced topics, good balance between theory and application.



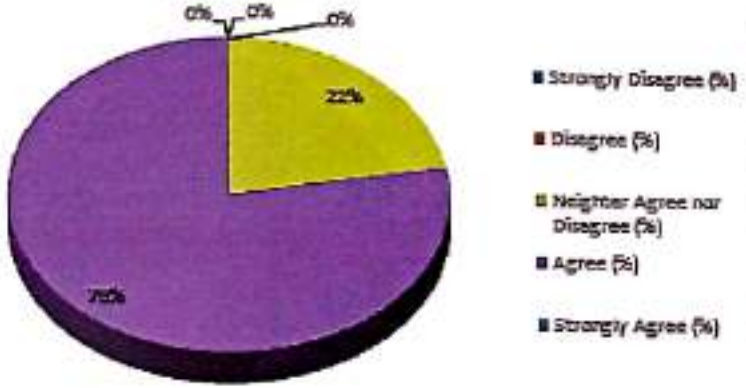

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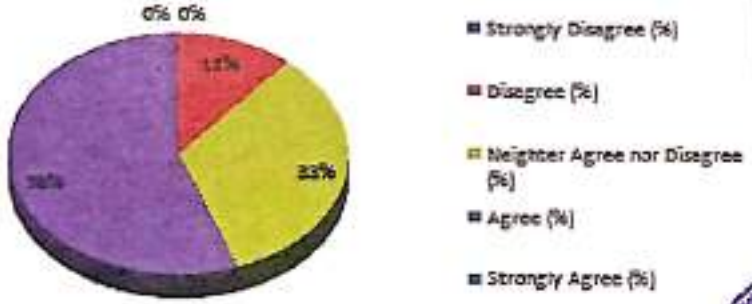
Q.5 Evaluation schemes designed for each of the course are sufficient for providing proper assessment.



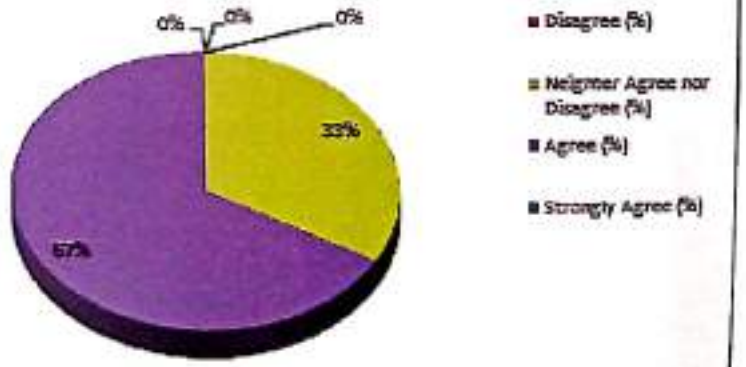

Q.6 The course/ syllabus has good balance between theoretical concepts of syllabus and Practical/Experiments.




Q.7 The syllabus is covering inculcation of the aspects of life skills, transferable skills, cross cutting issues, gender equality, environment and sustainability, human rights and social security.



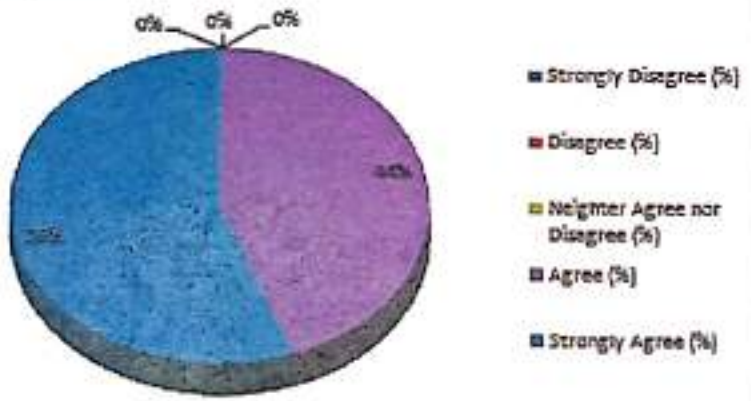

Q.8 Current syllabus tries to build the opportunities in terms of employability and entrepreneurial attitude amongst the students.



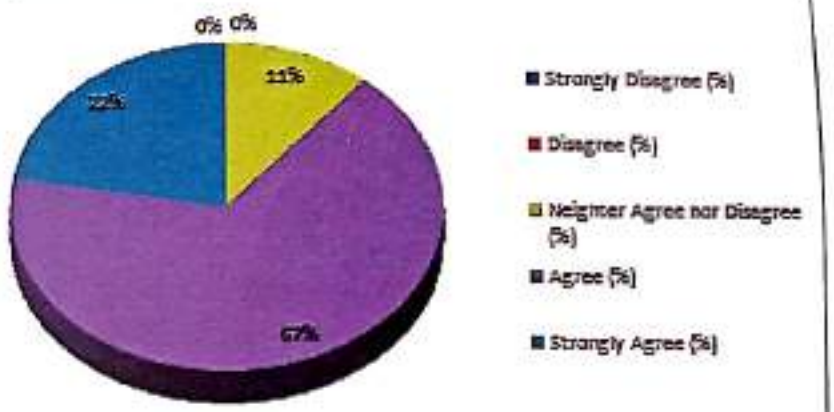

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Q.9 The books/ reference materials prescribed are relevant, updated and appropriate.




Q.10 The course/syllabus has enabled to update knowledge and perspective in the subject area.



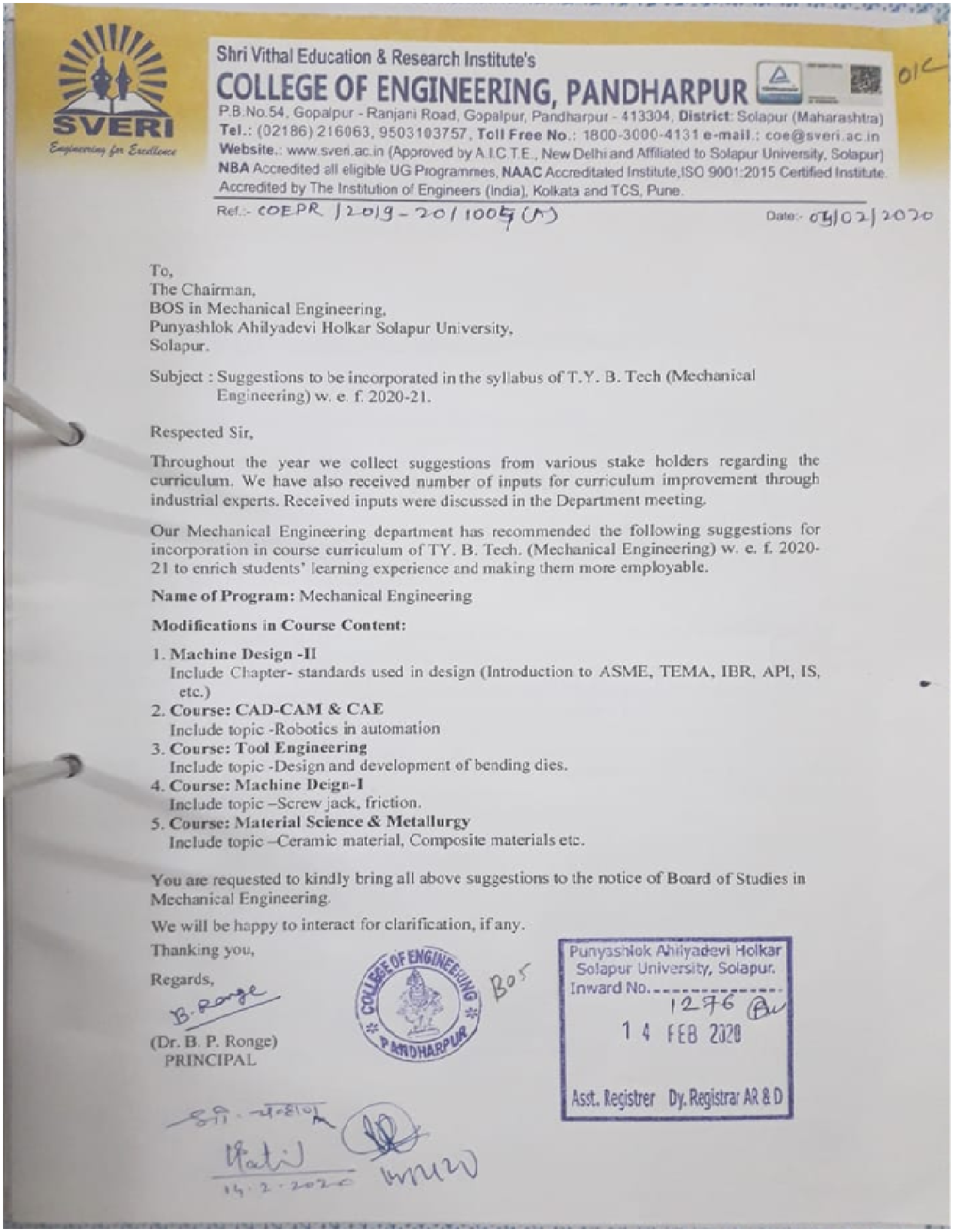

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# SVERI's
# College of Engineering, Pandharpur

## Action Taken Report of the Institution on Feedback Report

- **Letter to BOS in Mechanical Engineering, Punyashlok Ahilyadevi Holkar Solapur University about incorporating different suggestions collected from various stakeholders regarding curriculum.**



Shri Vithal Education & Research Institute's
COLLEGE OF ENGINEERING, PANDHARPUR
P.B.No.54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413304, District: Solapur (Maharashtra)
Tel.: (02186) 216063, 9503103757, Toll Free No.: 1800-3000-4131 e-mail.: coe@sveri.ac.in
Website.: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)
NBA Accredited all eligible UG Programmes, NAAC Accreditated Institute,ISO 9001:2015 Certified Institute.
Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune.

Ref.:- COEPR /2019-20/1005 (A)  Date:- 05/02/2020

To,
The Chairman,
BOS in Mechanical Engineering,
Punyashlok Ahilyadevi Holkar Solapur University,
Solapur.

Subject : Suggestions to be incorporated in the syllabus of T.Y. B. Tech (Mechanical Engineering) w. e. f. 2020-21.

Respected Sir,

Throughout the year we collect suggestions from various stake holders regarding the curriculum. We have also received number of inputs for curriculum improvement through industrial experts. Received inputs were discussed in the Department meeting.

Our Mechanical Engineering department has recommended the following suggestions for incorporation in course curriculum of TY. B. Tech. (Mechanical Engineering) w. e. f. 2020-21 to enrich students' learning experience and making them more employable.

**Name of Program:** Mechanical Engineering

**Modifications in Course Content:**

1. **Machine Design -II**
   Include Chapter- standards used in design (Introduction to ASME, TEMA, IBR, API, IS, etc.)
2. **Course: CAD-CAM & CAE**
   Include topic -Robotics in automation
3. **Course: Tool Engineering**
   Include topic -Design and development of bending dies.
4. **Course: Machine Deign-I**
   Include topic –Screw jack, friction.
5. **Course: Material Science & Metallurgy**
   Include topic –Ceramic material, Composite materials etc.

You are requested to kindly bring all above suggestions to the notice of Board of Studies in Mechanical Engineering.

We will be happy to interact for clarification, if any.

Thanking you,

Regards,

B. Ronge

(Dr. B. P. Ronge)
PRINCIPAL

COLLEGE OF ENGINEERING PANDHARPUR

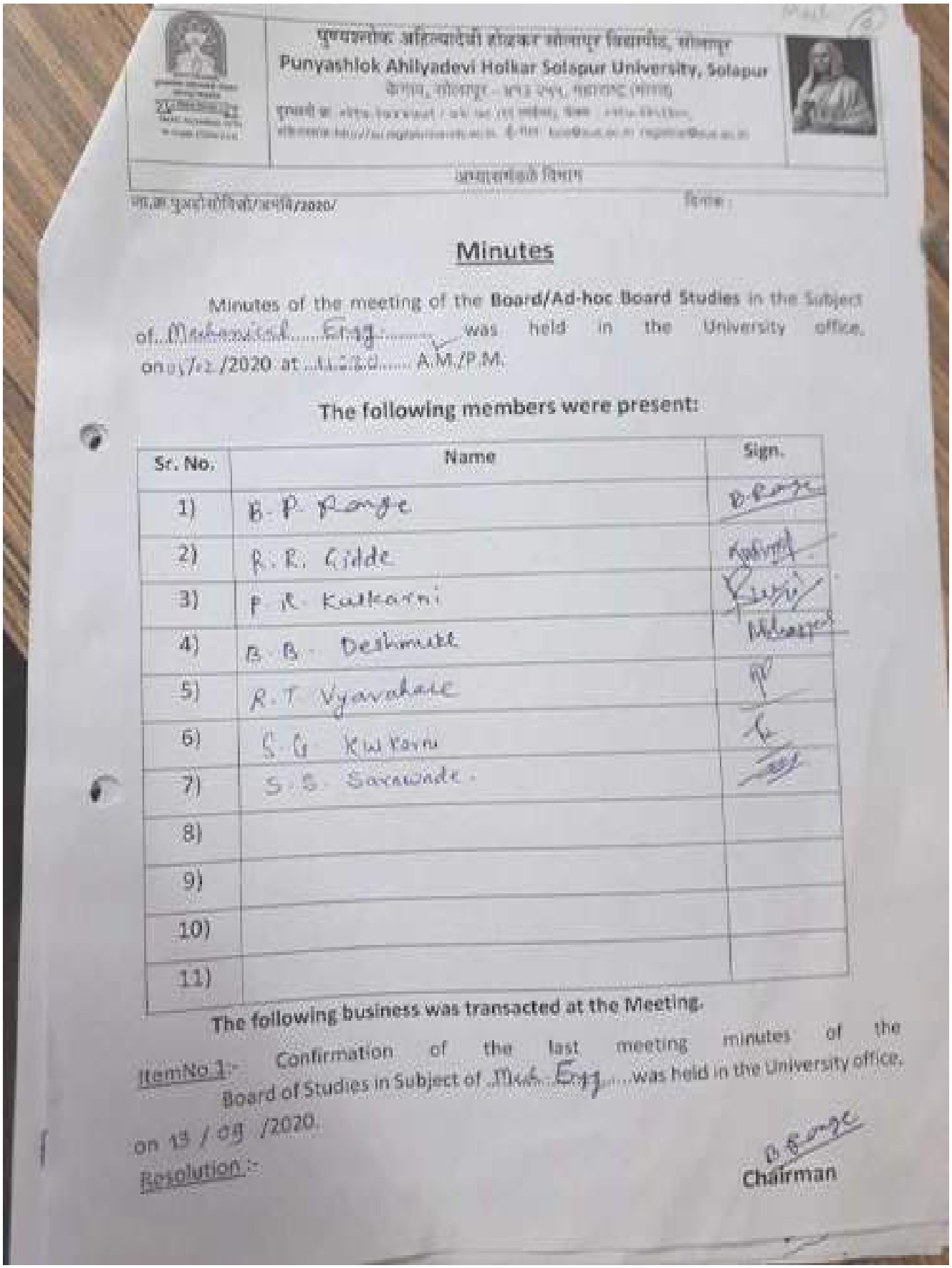
BOS

Punyashlok Ahilyadevi Holkar Solapur University, Solapur.
Inward No. 1276
14 FEB 2020
Asst. Registrer  Dy. Registrar AR & D

14.2.2020

**Minutes of the meeting of the Board of Studies in the Subject of Mechanical Engineering was held in the University office on 05/02/2020**

# Action Taken Report of the Institution on Feedback Report



पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर
Punyashlok Ahilyadevi Holkar Solapur University, Solapur

अधिसभा विभाग

पु.अ.सो.वि/अधि/मानधन/2020/ दिनांक :

## Minutes

Minutes of the meeting of the **Board/Ad-hoc Board Studies** in the Subject of Mechanical Engg. was held in the University office, on 07/12/2020 at 11.30 A.M./P.M.

**The following members were present:**

| Sr. No. | Name | Sign. |
|---|---|---|
| 1) | B. P. Ponge | B.P.Ponge |
| 2) | R. R. Gidde | |
| 3) | P. R. Kulkarni | |
| 4) | B. B. Deshmukh | |
| 5) | R. T. Vyavahare | |
| 6) | S. G. Kulkarni | |
| 7) | S. S. Sarawade. | |
| 8) | | |
| 9) | | |
| 10) | | |
| 11) | | |

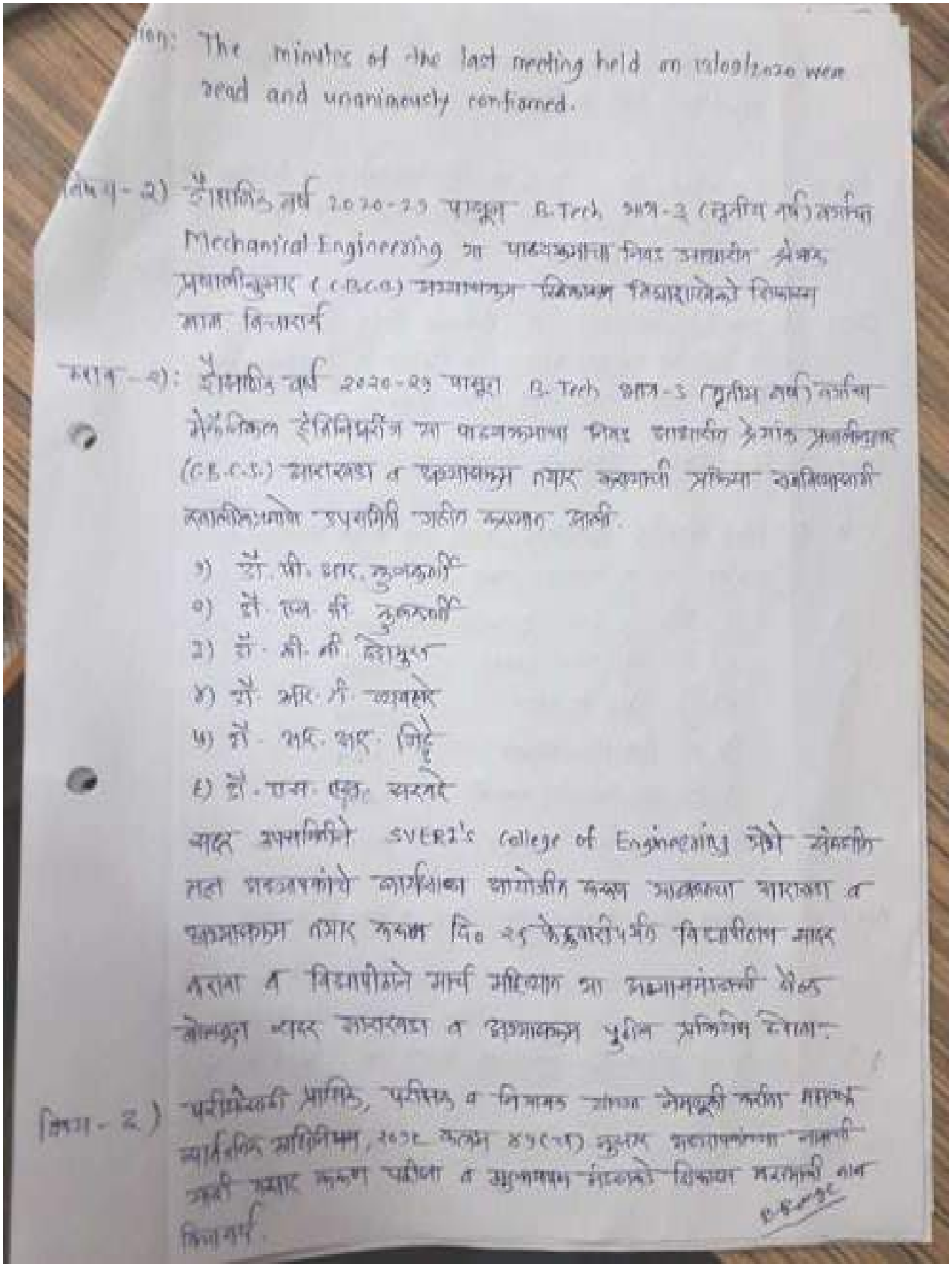
**The following business was transacted at the Meeting.**

Item No 1:- Confirmation of the last meeting minutes of the Board of Studies in Subject of Mech. Engg. was held in the University office, on 13 / 09 /2020.

Resolution :-

B.P.Ponge
Chairman

# Action Taken Report of the Institution on Feedback Report



tion: The minutes of the last meeting held on 10/09/2020 were read and unanimously confirmed.

ठराव - २) शैक्षणिक वर्ष 2020-21 पासून B.Tech. भाग-३ (तृतीय वर्ष) करीता Mechanical Engineering या पाठ्यक्रमाचा निवड आधारीत श्रेयांक प्रणाली-नुसार (C.B.C.S.) आराखड्या प्रक्रियेबद्दल विद्यार्थ्यांचे विचार जाणून विचारार्थ

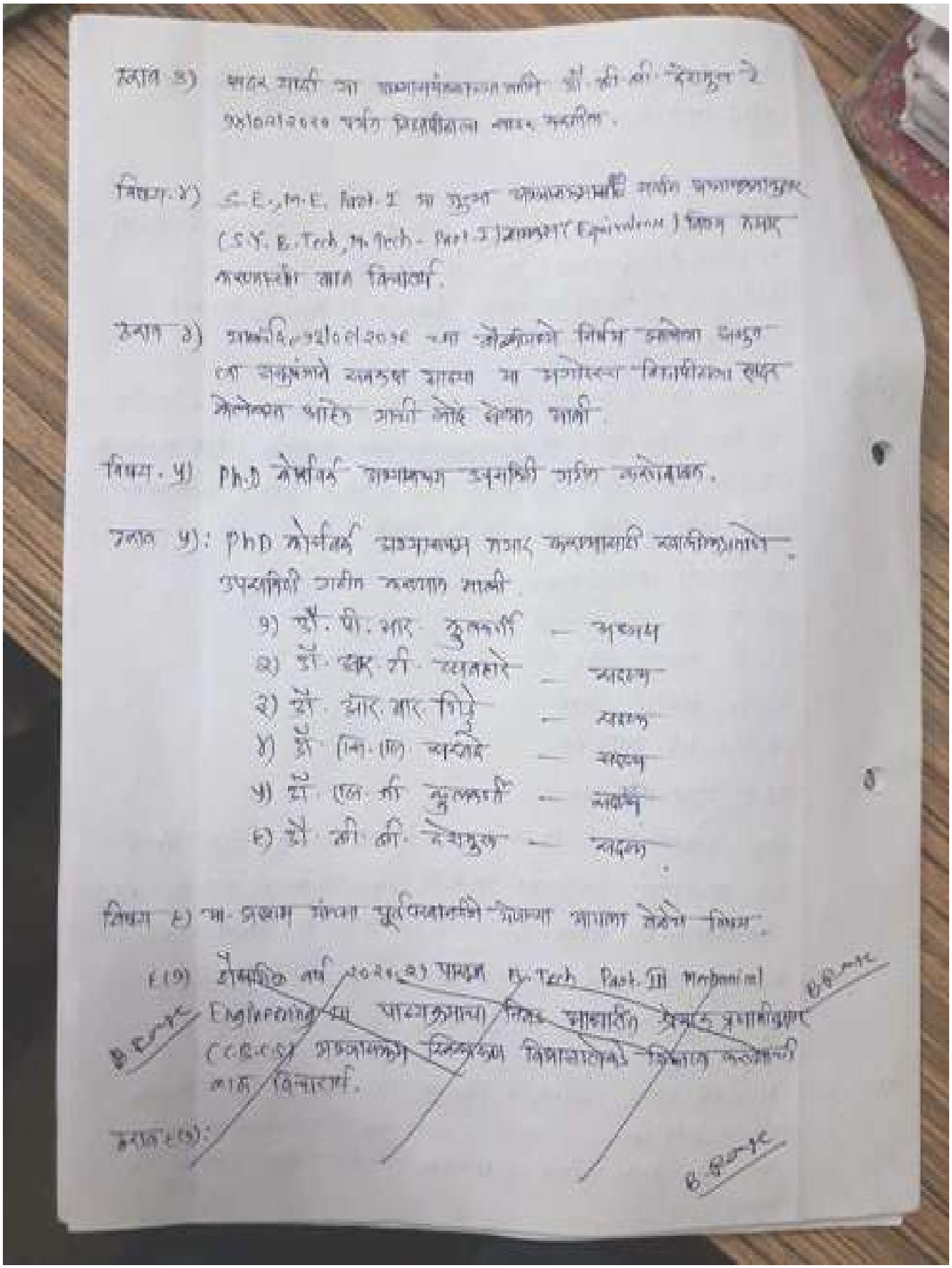
ठराव - ३): शैक्षणिक वर्ष 2020-21 पासून B.Tech भाग-३ (तृतीय वर्ष) करीता मेकॅनिकल इंजिनिअरिंग या पाठ्यक्रमाचा निवड आधारीत श्रेयांक प्रणाली-नुसार (C.B.C.S.) आराखड्या व प्रक्रियेबद्दल तसेच करावयाची प्रक्रिया याबाबतीची कार्यशाळेचा उपयोगिता अहवाल सादर करणे.

१) डॉ. पी. डी. कुलकर्णी
२) डॉ. एम. बी. कुलकर्णी
३) डॉ. बी. बी. हिरेमठ
४) प्रो. अनिल बी. जमखंडे
५) डॉ. एस. एस. जिटे
६) डॉ. एस. एस. कारजोळ

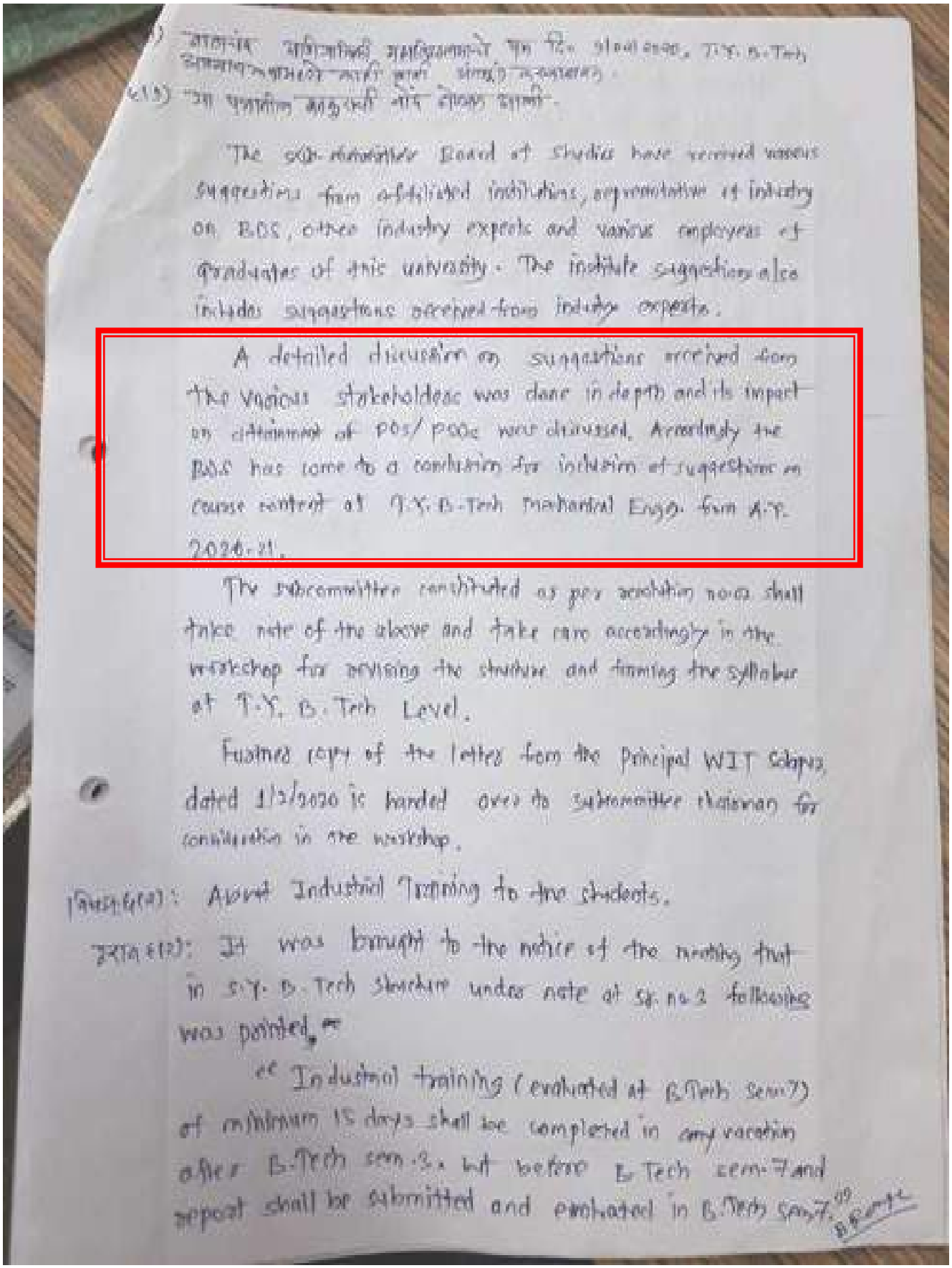
वरील उपस्थितांनी SVERI's College of Engineering येथे घेतलेल्या सदर पाठ्यक्रमांचे कार्यशाळा आयोजित करुन आराखडा व प्रक्रियाबद्दल तसेच दि. २६ फेब्रुवारीपर्यंत विद्यार्थ्यांना सादर करावा व विद्यार्थ्यांनी मार्च महिन्यात या अभ्यासमंडळाची बैठक बोलवून सादर आराखड्या व प्रक्रियाबद्दल पुढील प्रक्रियेस देणेत.

ठराव - ४) परीक्षेच्या प्रश्नांचे, पर्यवेक्षक व निरीक्षक यांना नेमणूकी करीता शासकीय सार्वत्रिक सुट्टिदिवस, २०२० अन्वये ४५(२) नुसार अध्यापकांना नोकरी अर्ज सादर करून परीक्षा व मुल्यांकन केंद्रांकडे विनंती सादर करणेत.

# Action Taken Report of the Institution on Feedback Report



# Action Taken Report of the Institution on Feedback Report



The [illegible] Board of Studies have received various suggestions from affiliated institutions, representative of industry on BOS, other industry experts and various employers of graduates of this university. The institute suggestions also includes suggestions received from industry experts.

A detailed discussion on suggestions received from the various stakeholders was done in depth and its impact on attainment of POs/PSOs was discussed. Accordingly the BOS has come to a conclusion for inclusion of suggestions in course content of T.Y. B.Tech Mechanical Engg. from A.Y. 2020-21.

The subcommittee constituted as per resolution no.03 shall take note of the above and take care accordingly in the workshop for revising the structure and framing the syllabus at T.Y. B.Tech Level.

Fustnes copy of the letter from the Principal WIT Solapur dated 1/2/2020 is handed over to Submmittee chairman for consideration in the workshop.

[illegible]: About Industrial Training to the students.

[illegible]: It was brought to the notice of the meeting that in S.Y. B.Tech Structure under note at Sr. no 2 following was printed,-

"Industrial training (evaluated at B.Tech Sem.7) of minimum 15 days shall be completed in any vacation after B.Tech sem.3 but before B.Tech sem.7 and report shall be submitted and evaluated in B.Tech Sem.7."

# Action Taken Report of the Institution on Feedback Report

Thorough discussion was made and it was resolved unanimously to modify the above note as follows:

3. "Industrial Training (evaluated at B. Tech. Sem-7) of minimum 30 days at a stretch or in two slots of 15 days each at the discretion of the institute, shall be completed by every student during any vacation after B.Tech sem-3, but before B.Tech Sem-7 and the report shall be submitted and evaluated in B.Tech Sem-7.

There being no further issues to discuss, the meeting is concluded with the vote of thanks to all present.

B Ranga

**Minutes of the meeting of the Board of Studies in the Subject of Mechanical Engineering was held in the University office on 12/02/2020**

# Action Taken Report of the Institution on Feedback Report

पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर
Punyashlok Ahilyadevi Holkar Solapur University, Solapur

अध्यासनाचे विभाग

दिनांक :

## Minutes

The meeting of the **Board/Ad-hoc Board of Studies** in the Subject of Mechanical Engineering was held in the University office, on 17/03/2020 at ...12.30... A.M./P.M.

**The following members were present:**

| Sr. No. | Name | Sign. |
|---|---|---|
| 1) | Dr. B. P. Ronge | B. Ronge |
| 2) | Dr. P. R. Kulkarni | |
| 3) | Dr. R. R. Gidde | |
| 4) | Dr. B. B. Deshmukh | |
| 5) | Dr. R. T. Nyavanhare | |
| 6) | Mr. Chandanshive Sarnaik Anil | |
| 7) | Dr. Divya Pradip Kulkarni | |
| 8) | Dr. S. G. Kulkarni | |
| 9) | | |
| 10) | | |
| 11) | | |

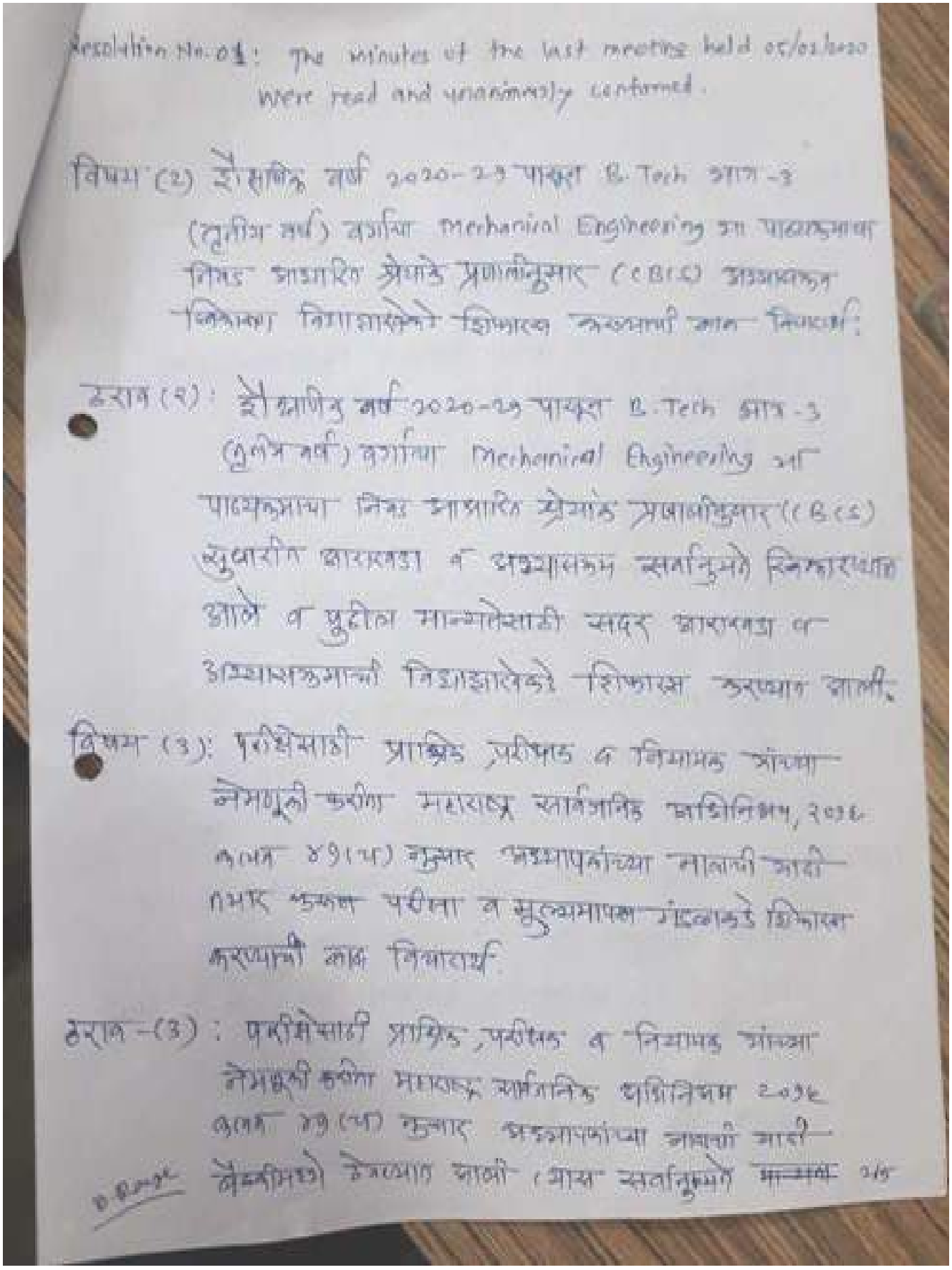
**The following business was transacted at the Meeting.**

Item No.1:- Confirmation of the last meeting minutes of the Board of Studies in Subject of Mech. Engg. was held in the University office, on 25/02/2020

Resolution:-

B. Ronge
Chairman

# Action Taken Report of the Institution on Feedback Report



Resolution No. 04: The minutes of the last meeting held 05/01/2020 were read and unanimously conformed.

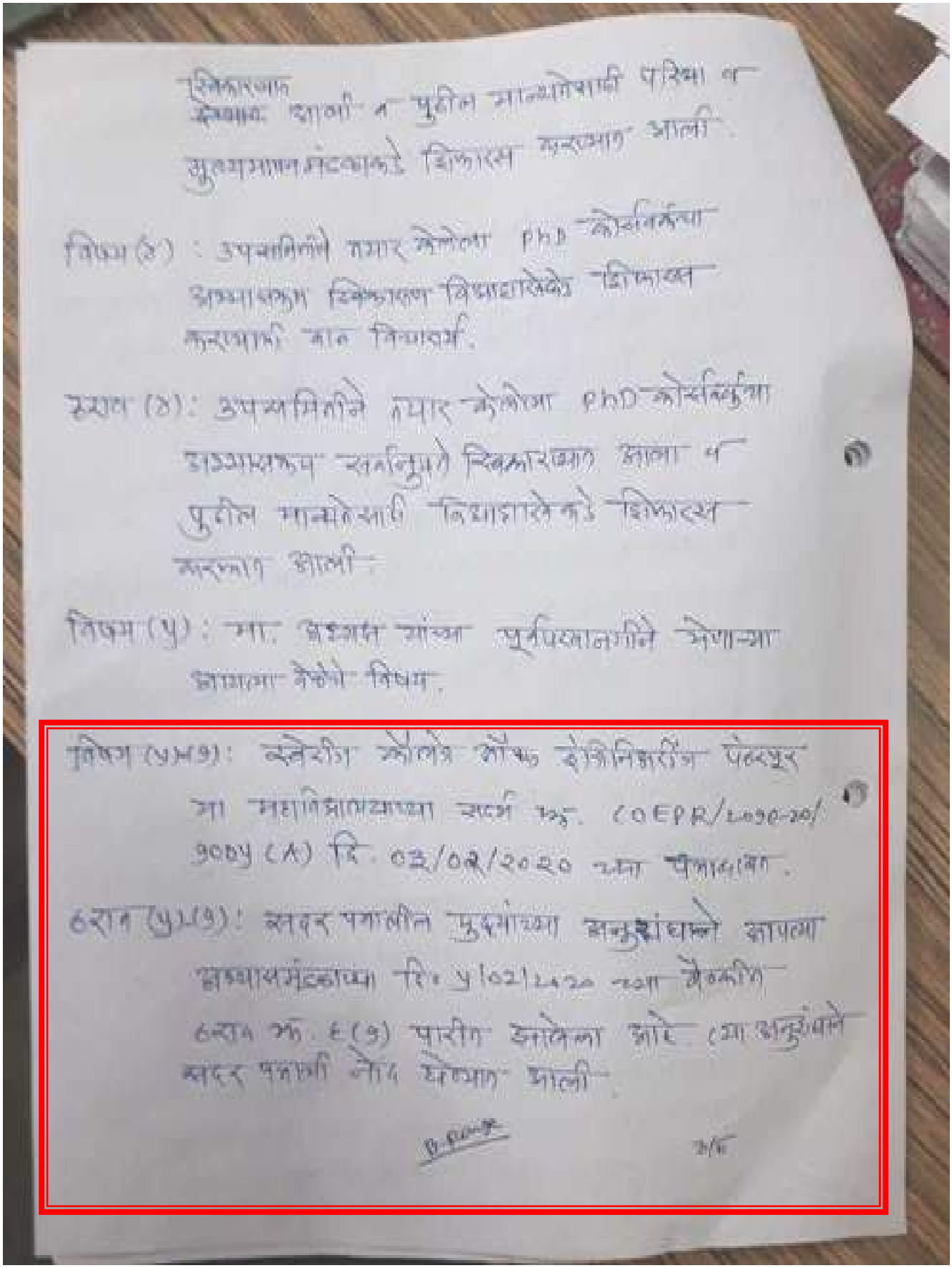
विषय (2) शैक्षणिक वर्ष 2020-21 पासून B. Tech भाग-3 (तृतीय वर्ष) वर्गासाठी Mechanical Engineering या पाठ्यक्रमाचा निवड आधारित श्रेयांकने प्रणालीनुसार (CBCS) अभ्यासक्रम तिसऱ्या विद्याशाखेकडे शिफारस करण्याची बाब विचारार्थ.

ठराव (2): शैक्षणिक वर्ष 2020-21 पासून B. Tech भाग-3 (तृतीय वर्ष) वर्गासाठी Mechanical Engineering या पाठ्यक्रमाचा निवड आधारित श्रेयांकने प्रणालीनुसार (CBCS) सुधारीत अभ्यासक्रम सर्वानुमते शिफारशीसह आले व पुढील मान्यतेसाठी सदर अभ्यासक्रम व अभ्यासक्रमाची विद्याशाखेकडे शिफारस करण्यात आली.

विषय (3): पदवीसाठी प्राविण्य परीक्षक व नियामक यांच्या नेमणूकी करीता महाराष्ट्र सार्वजनिक विद्यापिठ अधिनियम, २०१६ कलम ४१(५) नुसार अध्यापकांच्या नावांची आदी नावे पडताळणी परीक्षा व मूल्यमापन मंडळाकडे शिफारस करण्याची बाब विचारार्थ.

ठराव-(3): पदवीसाठी प्राविण्य परीक्षक व नियामक यांच्या नेमणूकी करीता महाराष्ट्र सार्वजनिक विद्यापिठ अधिनियम २०१६ कलम ४१ (५) नुसार अध्यापकांच्या नावांची आदी नावे मंडळाकडे शिफारस करण्यात आली. (ठराव सर्वानुमते मान्यता

# Action Taken Report of the Institution on Feedback Report



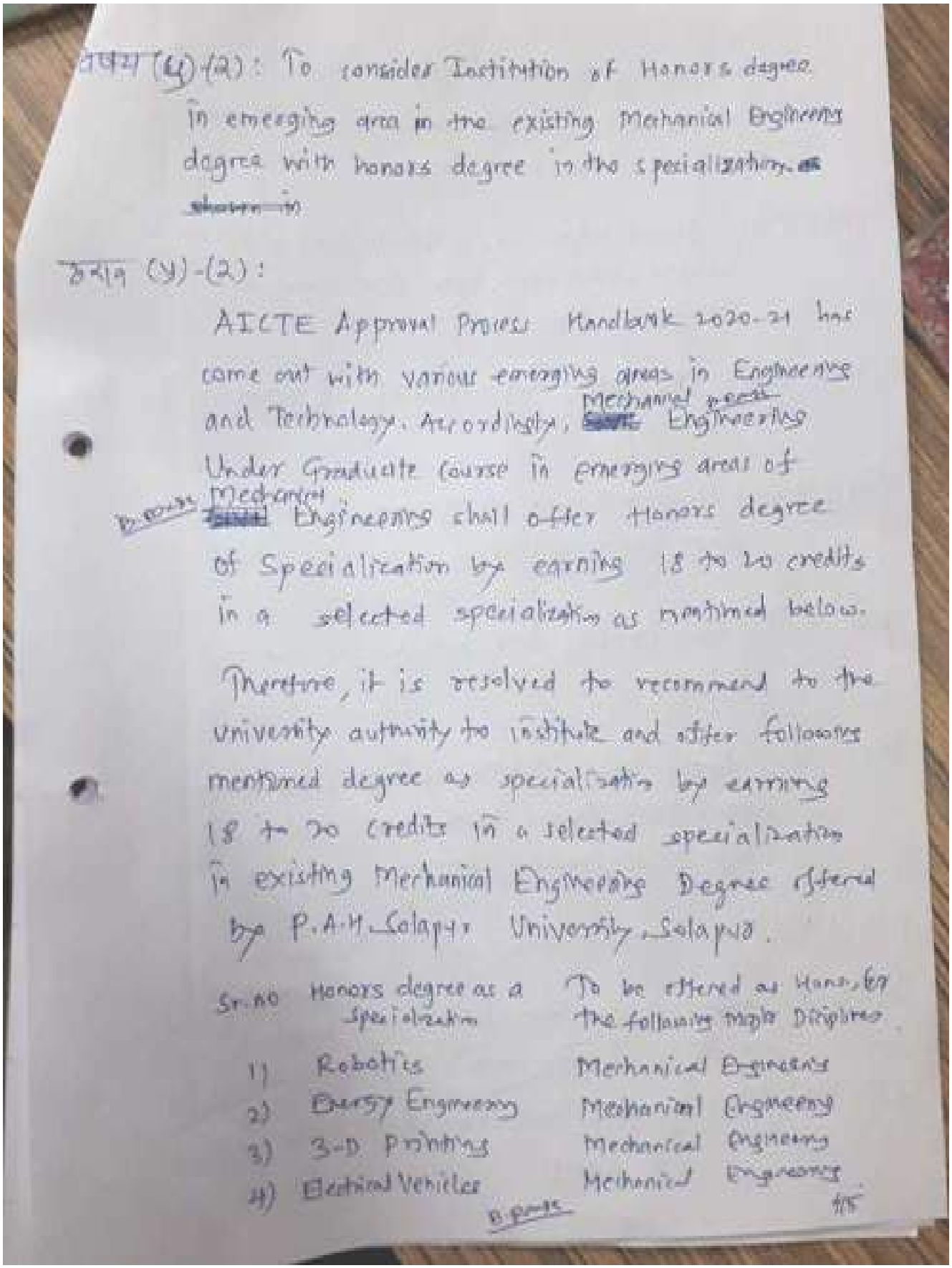
विषय (३) : उपप्राचार्यांचे मार्गदर्शनाखाली PhD करणाऱ्या प्राध्यापकांच्या विद्यार्थ्यांकडे शिष्यवृत्ती करण्याची बाब विचाराधीन.

विषय (४) : उपप्राचार्यांचे मार्गदर्शनाखाली PhD करणाऱ्या प्राध्यापकांच्या संशोधनपर लेखांना प्रोत्साहनपर रक्कम देण्याचा प्रस्ताव होता व पुढील मान्यतेसाठी विद्यापरिषदेकडे शिफारस करण्यात आली.

विषय (५) : मा. प्रशासन यांच्या पूर्वपरवानगीने संशोधनाच्या प्रस्तावास देण्याचा विषय.

विषय (५.१): व्हेरॉन्डा कॉलेज ऑफ इंजिनिअरींग पेंढरपूर या महाविद्यालयाच्या दर्जा मध्ये COEPR/२०२०-२१/३०७५ (A) दि. ०३/०२/२०२० नुसार वाढविण्याबाबत.

ठराव (५.१.१): सदर पत्रातील मुद्दयांच्या अनुरोधाने प्राचार्यसंस्थेच्या दि. ५/०२/२०२० रोजी बैठकीत ठराव क्र. ६ (१) पारीत करण्यात आले आहे त्या अनुरोधाने सदर पत्राची नोंद घेण्यात आली.



विषय (4)-(2): To consider Institution of Honors degree in emerging area in the existing Mechanical Engineering degree with honors degree in the specialization as shown in

ठराव (4)-(2):

AICTE Approval Process Handbook 2020-21 has come out with various emerging areas in Engineering and Technology. Accordingly, Mechanical Engineering Under Graduate Course in emerging areas of Mechanical Engineering shall offer Honors degree of Specialization by earning 18 to 20 credits in a selected specialization as mentioned below.

Therefore, it is resolved to recommend to the university authority to institute and offer following mentioned degree as specialization by earning 18 to 20 credits in a selected specialization in existing Mechanical Engineering Degree offered by P.A.H. Solapur University, Solapur.

| Sr. No | Honors degree as a specialization | To be offered as Honors for the following main Degree |
|---|---|---|
| 1) | Robotics | Mechanical Engineering |
| 2) | Energy Engineering | Mechanical Engineering |
| 3) | 3-D printing | Mechanical Engineering |
| 4) | Electrical Vehicles | Mechanical Engineering |

The meeting took the note of the letter, in this respect, ~~from~~ WIT/2019-20/1582 dated 11/02/2020 from WIT Solapur.

विषय य (3): About letter no. SKNSCOE/2019-20/842 dated 24/02/2020 from SKN Sinhgad College of Engg. Korti.

ठराव य (3): The meeting took note of the above letter.

विषय य (2): About letter no WIT/1772 dated 07/02/2020 from WIT Solapur.

ठराव य (2): The meeting took note of the above letter.

विषय य (1): About letter NBNSCOE/MECH/19-20/482 dated 15/02/2020 from NBN Sinhgad College of Engineering, Solapur.

ठराव य (1): The meeting took note of the above letter.

विषय य (4): About letter from International Research Journal of India dated 5/03/2020.

ठराव य (4): The meeting took note of the above letter.

D. Bhange

5/5

# Action Taken (New Content / Topic Added) in the Curriculum

# Action Taken Report of the Institution on Feedback Report

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

**Faculty of Science & Technology**

*Credit System **MODIFIED** structure of T.Y. B. Tech. Mechanical Engineering W.E.F. 2020-21*

Semester -VI

**Theory Courses**

| Course code | Name of Theory Course | Hrs./week | | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | ICA | Total |
| ME321 | Machine Design –II | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME322 | Instrumentation & Control | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME323 | Heat Transfer | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME324 | Industrial & Quality Management | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME325 | Professional Elective –IV | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME326 | Mini Project | - | - | - | - | - | - | - | - | - |
| ME327 | Metrology | - | - | - | - | - | - | - | - | - |
| SLH 32 | Self-Learning Technical | - | - | - | - | 2# | - | 50 | - | 50 |
| | **Sub Total** | **15** | - | - | - | **15** | **150** | **400** | - | **550** |

**Semester 6 Laboratory / Tutorial Courses**

| *Course code* | *Name of Laboratory / Tutorial Course* | *Hrs./week* | | | | *Credits* | *Examination Scheme* | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *L* | *T* | *P* | D | | *ISE* | *ESE* | | *ICA* | *Total* |
| | | | | | | | | *POE* | *OE* | | |
| ME321 | Machine Design –II | - | - | 2 | - | 1 | - | - | -- | 25 | 25 |
| ME322 | Instrumentation & Control | - | - | 2 | - | 1 | - | - | | 25 | 25 |
| ME323 | Heat Transfer | - | - | 2 | - | 1 | - | 25 | - | 25 | 50 |
| ME324 | Industrial & Quality Management | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME325 | Professional Elective –IV | - | - | 2 | | 1 | - | - | - | 25 | 25 |
| ME326 | Mini Project | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME327 | Metrology | | | 2 | | 1 | | | 25 | 25 | 50 |
| ME328 | Mechanical Workshop –III | - | - | 2 | - | 1 | | | | 25 | 25 |
| | **Sub Total** | - | **02** | **12** | - | **08** | - | **50** | | **200** | **250** |
| | **Grand Total** | **15** | **02** | **12** | - | **23** | **150** | **450** | | **200** | **800** |

*Abbreviations: L-Lectures, T-Tutorials, P-Practical, D-Drawing, ISE- In-Semester Exam, ESE- End Semester Exam, ICA- Internal Continuous Assessment , Professional Elective –IV: A. Project Management* B. Industrial Product Design *C. Plastic Engineering D. Mechanical Vibrations E. Railway Transportation.* ***# indicates credits over and above***

# Action Taken Report of the Institution on Feedback Report

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**Faculty of Science & Technology**

*Credit System **MODIFIED** structure of T.Y. B. Tech. **Mechanical Engineering** W.E.F. 2020-21*

Semester -VI

Theory Courses

| Course code | Name of Theory Course | Hrs./week | | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | ICA | Total |
| ME321 | Machine Design –II | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME322 | Instrumentation & Control | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME323 | Heat Transfer | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME324 | Industrial & Quality Management | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME325 | Professional Elective –IV | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME326 | Mini Project | - | - | - | - | - | - | - | - | - |
| ME327 | Metrology | - | - | - | - | - | - | - | - | - |
| SLH 32 | Self-Learning Technical | - | - | - | - | 2# | - | 50 | - | 50 |
| | **Sub Total** | **15** | - | - | - | **15** | **150** | **400** | - | **550** |

Semester 6 Laboratory / Tutorial Courses

| Course code | Name of Laboratory / Tutorial Course | Hrs./week | | | | Credits | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | | ICA | Total |
| | | | | | | | | POE | OE | | |
| ME321 | Machine Design –II | - | - | 2 | - | 1 | - | - | -- | 25 | 25 |
| ME322 | Instrumentation & Control | - | - | 2 | - | 1 | - | - | | 25 | 25 |
| ME323 | Heat Transfer | - | - | 2 | - | 1 | - | 25 | - | 25 | 50 |
| ME324 | Industrial & Quality Management | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME325 | Professional Elective –IV | - | - | 2 | | 1 | - | - | - | 25 | 25 |
| ME326 | Mini Project | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME327 | Metrology | | | 2 | | 1 | | | 25 | 25 | 50 |
| ME328 | Mechanical Workshop –III | - | - | 2 | - | 1 | | | | 25 | 25 |
| | **Sub Total** | - | **02** | **12** | - | **08** | - | **50** | | **200** | **250** |
| | **Grand Total** | **15** | **02** | **12** | - | **23** | **150** | **450** | | **200** | **800** |

*Abbreviations: L-Lectures, T-Tutorials, P-Practical, D-Drawing, ISE- In-Semester Exam, ESE- End Semester Exam, ICA- Internal Continuous Assessment , Professional Elective –IV: A. Project Management* B. Industrial Product Design *C. Plastic Engineering D. Mechanical Vibrations E. Railway Transportation.* ***# indicates credits over and above***

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T.Y. B.Tech (Mechanical Engineering) Semester- VI w.e.f Year 2020-2021**
**ME 321 MACHINE DESIGN-II**

| *Teaching Scheme* | *Examination Scheme* |
|---|---|
| **Lectures – 3 Hours/week,** | **ESE– 70 Marks** |
| **Practical – 2 Hour/week,** | **ISE –30 Marks** |
| | **ICA- 25 Marks** |

- **Course Introduction:**

This course seeks to provide an introduction to design of various machine elements and discusses various design procedures, requirements, and design methods. It introduces the design procedure for various types of gears like spur gears, helical gears, bevel gears and worm gears along with the introduction to AGMA standard. A further content explains in detail the significance of pressure vessels, design procedure, and introduction to various standards used for pressure vessels. The different types of bearings, their significance and the selection of the rolling contact bearings from Manufacturer's Catalogue and the design considerations for sliding contact bearing are also included in the course content.

- **Course Pre-requisite:** Student shall have knowledge of function of different machine elements such as different types of gears, bearings, shafts, keys, etc. A sound background of Mechanics of material and fundamentals of design of machine elements essential for successful completion of this course.

- **Course Objectives: During this course, student is expected**

1. To design gears and pressure vessels.
2. To select bearing from Manufacturer's catalogue
3. To use standards in design of machine elements.

- **Course Outcomes: At the end of this course, student will be able to**

1. Design gears and pressure vessels.
2. Calculate the load acting on shaft to select bearing from Manufacturer's catalogue.
3. Use standards in design of machine elements.

## Section I

**Unit 1– Spur and Helical Gears** **No of lectures – 11**

**Spur Gear**

- **Unit Content:**

Design considerations of gears, gear materials, types of gear tooth failures, hunting tooth, gear tooth loads, minimum number of teeth, face width, Lewis equation, Spott's equation, Buckingham's' Equation (Introductory treatment), gear design for maximum power transmission, Introduction to AGMA code.

**Helical Gear:**

Virtual number of teeth, force analysis, beam and wear strength, effective load on gear tooth.

**Unit 2– Pressure vessel** **No of lectures – 06**

- **Unit Content:**

Thin cylinders-Types of stresses, design of thin cylinders. (Numerical)
Thick cylinders- Types of stresses, failure criteria– Lame's equation, Clavarino's equation, Birnies equation. (Numerical, No derivations)
Introduction to compound cylinders, autofrettage, unfired pressure vessels (code), types of end closures (No Numerical).
Effect of opening and nozzle in shell and covers. (Numerical)
Introduction to ASME codes used for design of pressure vessels (Introductory treatment).

**Unit 3– Statistical Considerations in Design** **No of lectures –03**

- **Unit Content:**

Frequency distribution, probability distribution, normal curve, design and natural tolerances.

## Section II

**Unit 4– Bevel Gear** **No of lectures – 06**

- **Unit Content:**

Terminology and geometrical relation, force analysis, mounting of bevel gears, beam strength and wear strength, dynamic tooth load.

**Unit 5– Worm Gear** **No of lectures – 06**

- **Unit Content:**

Terminology and geometrical relations, materials, standard dimensions and recommendations of worm gearing, force analysis of worm drive, friction in worm gear, efficiency and design

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**Faculty of Science & Technology**

*Credit System* ***MODIFIED*** *structure of T.Y. B. Tech. Mechanical Engineering W.E.F. 2020-21*

Semester -V

**Theory Courses**

| Course code | Name of Theory Course | Hrs./week | | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | ICA | Total |
| ME311 | Machine Design –I | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME312 | CAD-CAM & CAE | 3 | - | - | - | 3 | 30 | 70 | | 100 |
| ME313 | Metallurgy | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME314 | Industrial Engineering and Operation Research | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME315 | Professional Elective –III | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| SLH | *Self Learning: HSS* | | | | | 2# | | 50 | | 50 |
| | **Sub Total** | **15** | - | - | - | **15** | **150** | **400** | | **550** |

**Semester5 Laboratory / Tutorial Courses**

| Course code | Name of Laboratory /Tutorial Course | Hrs./week | | | | Credits | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | | ICA | Total |
| | | | | | | | | POE | OE | | |
| ME311 | Machine Design –I | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| ME312 | CAD-CAM & CAE | - | - | 2 | - | 1 | | 25 | - | 25 | 50 |
| ME313 | Metallurgy | - | - | 2 | - | 1 | - | - | 25 | 25 | 50 |
| ME314 | Industrial Engineering and Operation Research | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| ME315 | Professional Elective –III | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| ME316 | Advanced ProgrammingConcepts | 1 | | 2 | | 2 | - | - | - | 50 | 50 |
| ME317 | Mechanical Workshop –II | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| | **Sub Total** | 01 | - | 14 | - | 08 | - | 50 | | 200 | 250 |
| | **Grand Total** | **16** | - | **14** | - | **23** | **150** | **450** | | **200** | **800** |

# Action Taken Report of the Institution on Feedback Report

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

**Faculty of Science & Technology**

*Credit System* ***MODIFIED*** *structure of T.Y. B. Tech.* ***Mechanical Engineering*** *W.E.F. 2020-21*

**Semester -VI**

**Theory Courses**

| Course code | Name of Theory Course | Hrs./week | | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | ICA | Total |
| ME321 | Machine Design –II | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME322 | Instrumentation & Control | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME323 | Heat Transfer | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME324 | Industrial & Quality Management | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME325 | Professional Elective –IV | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME326 | Mini Project | - | - | - | - | - | - | - | - | - |
| ME327 | Metrology | - | - | - | - | - | - | - | - | - |
| SLH 32 | Self-Learning Technical | - | - | - | - | 2# | - | 50 | - | 50 |
| | **Sub Total** | **15** | **-** | **-** | **-** | **15** | **150** | **400** | **-** | **550** |

**Semester 6 Laboratory / Tutorial Courses**

| Course code | Name of Laboratory / Tutorial Course | Hrs./week | | | | Credits | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | | ICA | Total |
| | | | | | | | | POE | OE | | |
| ME321 | Machine Design –II | - | - | 2 | - | 1 | - | - | -- | 25 | 25 |
| ME322 | Instrumentation & Control | - | - | 2 | - | 1 | - | - | | 25 | 25 |
| ME323 | Heat Transfer | - | - | 2 | - | 1 | - | 25 | - | 25 | 50 |
| ME324 | Industrial & Quality Management | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME325 | Professional Elective –IV | - | - | 2 | | 1 | - | - | - | 25 | 25 |
| ME326 | Mini Project | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME327 | Metrology | | | 2 | | 1 | | | 25 | 25 | 50 |
| ME328 | Mechanical Workshop –III | - | - | 2 | - | 1 | | | | 25 | 25 |
| | **Sub Total** | **-** | **02** | **12** | **-** | **08** | **-** | **50** | | **200** | **250** |
| | **Grand Total** | **15** | **02** | **12** | **-** | **23** | **150** | **450** | | **200** | **800** |

***Abbreviations: L-Lectures, T-Tutorials, P-Practical, D-Drawing, ISE- In-Semester Exam, ESE- End Semester Exam, ICA- Internal Continuous Assessment , Professional Elective –IV: A.*** *Project Management* **B.** Industrial Product Design ***C.*** *Plastic Engineering* ***D.*** *Mechanical Vibrations E. Railway Transportation.* ***# indicates credits over and above***

**T.Y. B.Tech (Mechanical Engineering) Semester- V w.e.f Year 2020-2021**
**ME313 METALLURGY**

| *Teaching Scheme* | *Examination Scheme* |
|---|---|
| | **ESE:** 70 Marks |
| **Theory:** 3Hrs/week | **ISE** – 30Marks |
| **Practical:** 2Hrs/week | **ICA:** 25Marks |
| | **OE: 25Marks** |

**Course Introduction:**

Course Introduction: Metallurgy is an art of extracting the pure metals from its ore. Its full scope is in:

a) Mixing two or more metals to form an Alloy.
b) Shaping the metals & alloys by different processes such as Casting, Forming, and Joining etc.
c) Undergoing suitable Heat treatment for modifying the properties.
d) And finally, in Inspecting & testing before putting the products in to use.

**Course Prerequisites:** Engineering Chemistry, Work shop practices, Manufacturing processes.

**Course Objectives:** To make the students proficient in:

1. Structures, composition, properties, applications of materials and their selection for design purpose.
2. Testing of materials and its significance.
3. Heat treatment processes for different engineering materials.
4. Powder metallurgy process and composite materials with its applications.

**Course Outcomes:** At the end of course, students will be able to-

1. Select of ferrous alloys and demonstrate the significance of heat treatment processes for engineering applications.
2. Establish the characteristics of nonferrous alloys and Composite materials.
3. Select suitable testing method & implication of Powder metallurgy for manufacturing of products.

**SECTION-I**

**UNIT-1 Introduction to ferrous alloys** **No. of lectures-06**

Brief classification of Metals, Concept of alloying, Classification of cooling curves, Types of equilibrium diagram, Lever rule, phase rule, Solid solution & its types, Intermetallic compounds, allotropy.

**UNIT-2 Ferrous metals and alloys** **No. of lectures-11**

Fe-Fe3C equilibrium diagram, critical temperatures, Plain carbon steels: composition, applications & properties, Effect of alloying elements on steels, Eutectic, Eutectoid and Peritectic transformations, Plain carbon steels, classification, composition, properties &

applications, Types of cast irons, composition, properties, applications. Alloy steels, alloying elements added to steels and their purpose.
Study of composition, properties and applications of following alloying steels.

| | | |
|---|---|---|
| 1. HSLA steels | 2. Spring steels | 3. Silicon steels |
| 4. Hadfield 'Mn' steels | 5. HCHC steels | 6. Water hardening steels |
| 7. Oil hardening steel | 8. Air hardening steel | 9. Hot working tool and Die steel |
| 10. Chisel steels | 11. HSS | 12. ONHS |
| 13. Stainless steels and its types | 14. Invar | 15. Steels for subzero applications |

**UNIT-3 Non-ferrous alloys, composites and Nano materials** **No. of lectures-04**

**Non-ferrous alloys**
Copper alloys: brasses, bronzes. Aluminum alloys: Al-Si alloy, Al-Cu alloy.
Steps in precipitation hardening (Steps only), Pb-Sn alloys, Study of Babbits. Introduction to Ni alloys.
**Composite materials**: Classification, properties and Applications
**Nano materials** – Concept, effect of particle size on mechanical properties.

**SECTION II**

**UNIT-4 Heat treatments of steel** **No. of lectures-9**
Objectives of Heat Treatment, TTT and CCT diagram for eutectoid Steel (Introductory treatment only)
Annealing - purposes, types, applications, limitations.
Normalizing- purposes, types, applications, limitations.
Hardening & Tempering: purposes, types, applications. Types of Tempering, structural changes during tempering, Subzero treatment.
Methods of hardening such as Austempering, Martempering, limitations of these process, Surface hardening treatments.
Carburising – types, Nitradiing.
Cyaniding and carbinitriding – Purposes, chemistry of process, applications, limitations.
Induction hardening -, Flame hardening – Concept process, advantages, limitations and applications.

**UNIT-5 Destructive and Non Destructive testing** **No. of lectures-06**
A. Destructive testing methods, test procedure in brief, significance of
i) Tensile testing ii) Hardness testing iii) Impact testing iv) Creep v) Fatigue testing.

B. Study of Non Destructive Testing methods (NDT) such as
i) dye penetrant test ii) magnetic Particle test iii) Ultrasonic test iv) Radiography test v) Eddy current test. Introduction to advanced NDT methods.

**UNIT–6 Introduction to powder metallurgy** **No. of lectures-04**

Significance, steps in powder metallurgy process, Applications, Methods of powder manufacture, mixing / blending, compaction methods, sintering processes & types, advantages & limitations, Typical powder metallurgy applications and their flow chart: - Self lubricated bearings, cemented carbide cutting tools, friction materials, etc

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**Faculty of Science & Technology**

*Credit System **MODIFIED** structure of T.Y. B. Tech. **Mechanical Engineering** W.E.F. 2020-21*

**Semester -V**

**Theory Courses**

| Course code | Name of Theory Course | Hrs./week | | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | ICA | Total |
| ME311 | Machine Design –I | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME312 | CAD-CAM & CAE | 3 | - | - | - | 3 | 30 | 70 | | 100 |
| ME313 | Metallurgy | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME314 | Industrial Engineering and Operation Research | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME315 | Professional Elective –III | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| SLH | *Self Learning: HSS* | | | | | 2# | | 50 | | 50 |
| | **Sub Total** | **15** | **-** | **-** | **-** | **15** | **150** | **400** | | **550** |

**Semester5 Laboratory / Tutorial Courses**

| Course code | Name of Laboratory /Tutorial Course | Hrs./week | | | | Credits | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | | ICA | Total |
| | | | | | | | | POE | OE | | |
| ME311 | Machine Design –I | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| ME312 | CAD-CAM & CAE | - | - | 2 | - | 1 | | 25 | - | 25 | 50 |
| ME313 | Metallurgy | - | - | 2 | - | 1 | - | - | 25 | 25 | 50 |
| ME314 | Industrial Engineering and Operation Research | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| ME315 | Professional Elective –III | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| ME316 | Advanced ProgrammingConcepts | 1 | | 2 | | 2 | - | - | - | 50 | 50 |
| ME317 | Mechanical Workshop –II | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| | **Sub Total** | 01 | - | 14 | - | 08 | - | 50 | | 200 | 250 |
| | **Grand Total** | **16** | **-** | **14** | **-** | **23** | **150** | **450** | | **200** | **800** |

***Abbreviations: L-Lectures, T-Tutorials, P-Practicals, D-Drawing, ISE- In-Semester Exam, ESE- End Semester Exam, ICA- Internal Continuous Assessment***

***Professional Elective –III:** A. Gas turbines **B.** Industrial Hydraulics and Pneumatics **C.** Non Conventional Machining D. Tool Engineering*

*# indicates credits over and above.*

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

**Faculty of Science & Technology**

*Credit System **MODIFIED** structure of T.Y. B. Tech. **Mechanical Engineering** W.E.F. 2020-21*

**Semester -VI**

**Theory Courses**

| Course code | Name of Theory Course | Hrs./week | | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | ICA | Total |
| ME321 | Machine Design –II | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME322 | Instrumentation & Control | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME323 | Heat Transfer | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME324 | Industrial & Quality Management | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME325 | Professional Elective –IV | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME326 | Mini Project | - | - | - | - | - | - | - | - | - |
| ME327 | Metrology | - | - | - | - | - | - | - | - | - |
| SLH 32 | Self-Learning Technical | - | - | - | - | 2# | - | 50 | - | 50 |
| | **Sub Total** | **15** | **-** | **-** | **-** | **15** | **150** | **400** | **-** | **550** |

**Semester 6 Laboratory / Tutorial Courses**

| Course code | Name of Laboratory / Tutorial Course | Hrs./week | | | | Credits | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | | ICA | Total |
| | | | | | | | | POE | OE | | |
| ME321 | Machine Design –II | - | - | 2 | - | 1 | - | - | -- | 25 | 25 |
| ME322 | Instrumentation & Control | - | - | 2 | - | 1 | - | - | | 25 | 25 |
| ME323 | Heat Transfer | - | - | 2 | - | 1 | - | 25 | - | 25 | 50 |
| ME324 | Industrial & Quality Management | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME325 | Professional Elective –IV | - | - | 2 | | 1 | - | - | - | 25 | 25 |
| ME326 | Mini Project | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME327 | Metrology | | | 2 | | 1 | | | 25 | 25 | 50 |
| ME328 | Mechanical Workshop –III | - | - | 2 | - | 1 | | | | 25 | 25 |
| | **Sub Total** | **-** | **02** | **12** | **-** | **08** | **-** | **50** | | **200** | **250** |
| | **Grand Total** | **15** | **02** | **12** | **-** | **23** | **150** | **450** | | **200** | **800** |

***Abbreviations: L-Lectures, T-Tutorials, P-Practical, D-Drawing, ISE- In-Semester Exam, ESE- End Semester Exam, ICA- Internal Continuous Assessment , Professional Elective –IV: A. Project Management*** B. Industrial Product Design ***C. Plastic Engineering D. Mechanical Vibrations E. Railway Transportation.*** ***# indicates credits over and above***

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T.Y. B.Tech (Mechanical Engineering) Semester- V w.e.f Year 2020-2021**

## ME 316 ADVANCED PROGRAMMING CONCEPTS

| *Teaching Scheme* | *Examination Scheme* |
|---|---|
| **Lectures – 1 Hours/week** | |
| **Practical – 2 Hour/week** | **ICA - 50 Marks** |

**Course Introduction**

By the end of this course, students will have gained a fundamental understanding of programming in **Python** by creating a variety of scripts and applications for the Web and for systems development. Python is a versatile programming language, suitable for projects ranging from small scripts to large systems. The course emphasizes best practices such as version control, unit testing and recommended styles and idioms. Students will explore the large standard library of Python, which supports many common programming tasks.

**Course Prerequisites**

This course is intended for absolute beginners in programming, but includes review of elementary features. Students are expected to be able to open command prompt window or terminal window, edit a text file, download and install software, and understand basic programming concepts.

**COURSE OBJECTIVES:**

1. Introduce procedural and object-oriented style for writing Python scripts.
2. Introduce standard library packages and modules in Python.
3. To teach debugging and profiling of Python scripts.

**COURSE OUTCOME:**

**At the end of this course, students will be able to**

1. Use Python standard library modules in writing Python scripts for problem solving.
2. Write Python scripts in procedural and object-oriented style.
3. Write Python scripts to perform database, network and web related operations.
4. Debug and profile Python scripts.

SECTION I

**Unit 1 - Introduction to Python and Computer Programming**

1.1 What is Python?
1.2 Types of Python
1.3 A basic program in python

**Unit 2 - Data Types, Variables, Basic Input-Output Operations, Basic Operators**

2.1 Sample python program
2.2 Python literals
2.3 Operators - data manipulation tools
2.4 Variables - data-shaped boxes
2.5 How to talk to computer?

**Unit 3 - Boolean Values, Conditional Execution, Loops, Lists and List Processing, Logical and Bitwise Operations**

3.1 Making decisions in Python
3.2 Python's loops
3.3 Logic and bit operations in Python
3.4 Lists - collections of data
3.5 Sorting simple lists - the bubble sort algorithm
3.6 Lists - some more details
3.7 Lists in advanced applications

**SECTION II**

**Unit 4 - Functions, Tuples, Dictionaries, and Data Processing**

4.1 Writing functions in Python
4.2 How functions communicate with their environment?
4.3 Returning a result from a function
4.4 Scopes in Python
4.5 Tuples and dictionaries

**Unit 5 - Modules, Packages, String and List Methods, and Exceptions**

5.1 Using modules
5.2 Some useful modules
5.3 What is package?
5.4 Errors
5.5 The anatomy of exception
5.6 Some of the most useful exceptions
5.7 Characters and strings vs. computers
5.8 Python's nature of strings
5.9 String methods

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

**Faculty of Science & Technology**

*Credit System **MODIFIED** structure of T.Y. B. Tech. **Mechanical Engineering** W.E.F. 2020-21*

**Semester -VI**

**Theory Courses**

| Course code | Name of Theory Course | Hrs./week | | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | ICA | Total |
| ME321 | Machine Design –II | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME322 | Instrumentation & Control | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME323 | Heat Transfer | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME324 | Industrial & Quality Management | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME325 | Professional Elective –IV | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME326 | Mini Project | - | - | - | - | - | - | - | - | - |
| ME327 | Metrology | - | - | - | - | - | - | - | - | - |
| SLH 32 | Self-Learning Technical | - | - | - | - | 2# | - | 50 | - | 50 |
| | **Sub Total** | **15** | **-** | **-** | **-** | **15** | **150** | **400** | **-** | **550** |

**Semester 6 Laboratory / Tutorial Courses**

| Course code | Name of Laboratory / Tutorial Course | Hrs./week | | | | Credits | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | | ICA | Total |
| | | | | | | | | POE | OE | | |
| ME321 | Machine Design –II | - | - | 2 | - | 1 | - | - | -- | 25 | 25 |
| ME322 | Instrumentation & Control | - | - | 2 | - | 1 | - | - | | 25 | 25 |
| ME323 | Heat Transfer | - | - | 2 | - | 1 | - | 25 | - | 25 | 50 |
| ME324 | Industrial & Quality Management | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME325 | Professional Elective –IV | - | - | 2 | | 1 | - | - | - | 25 | 25 |
| ME326 | Mini Project | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME327 | Metrology | | | 2 | | 1 | | | 25 | 25 | 50 |
| ME328 | Mechanical Workshop –III | - | - | 2 | - | 1 | | | | 25 | 25 |
| | **Sub Total** | **-** | **02** | **12** | **-** | **08** | **-** | **50** | | **200** | **250** |
| | **Grand Total** | **15** | **02** | **12** | **-** | **23** | **150** | **450** | | **200** | **800** |

***Abbreviations: L-Lectures, T-Tutorials, P-Practical, D-Drawing, ISE- In-Semester Exam, ESE- End Semester Exam, ICA- Internal Continuous Assessment , Professional Elective –IV: A.** Project Management* B. Industrial Product Design ***C.** Plastic Engineering **D.** Mechanical Vibrations E. Railway Transportation.* ***# indicates credits over and above***

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

**T.Y. B.Tech (Mechanical Engineering) Semester- V w.e.f Year 2020-2021**

**ME 317 MECHANICAL WORKSHOP – III**

***Teaching Scheme:*** **Practical: 2 Hours / week**

***Examination Scheme*:** **ICA: 25 marks**

**Course Prerequisite**

This course is important to understand fundamentals of machine shop starts from safety measures, practical use of measuring tools, use of all conventional machine tools, operations of all conventional machines, use of tolerances, fits and finally their practical use and applications.

**Course Objectives**

1. To learn and understand different machining operations practically studied in theory subjects.
2. To get hands on experience of machining operations such as grinding, drilling, shaping, turning etc.
3. To develop skills to operate different machine tools.

**Course Outcomes**

At the end of this course, the student will be able

1. To grind the tools.
2. To operate different machine tools such as grinders, lathes, milling, drilling machines etc.
3. To machine the component as per specified dimensions.

**ICA**

**Course Contents**

1. Tool Grinding Demonstration and actual grinding to understand the tool geometry (01 turns)
2. One composite job in M.S. consisting of one component and inclusive of following operation shall be performed by students (Any 5 Operations)

Facing, Turning, Step turning, Chamfering, Grooving, drilling, Knurling. At least one dimension of the job shall carry close tolerance (04turns)

4. Preparation of process sheet for the above job (01 turns)

**PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR**

## Faculty of Engineering & Technology

*Credit System structure of S.Y. B. Tech.* ***Mechanical Engineering*** *W.E.F. 2019-20*

**Semester 3**

**Theory Courses**

| *Course code* | *Name of Theory Course* | *Hrs./week* | | | | *Credits* | *Examination Scheme* | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | *L* | *T* | *P* | *D* | | *ISE* | *ESE* | *ICA* | *Total* |
| ME211 | Applied Thermodynamics | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME212 | Mechanics of Materials | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME213 | Manufacturing Processes | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME214 | Machine Drawing & CAD | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME215 | Professional Elective-I | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| | **Sub Total** | **15** | - | - | - | **15** | **150** | **350** | - | **500** |
| MEV21 | Environmental Sciences | 1 | - | - | - | - | - | - | - | - |

**Semester 3: Laboratory / Tutorial Courses**

| *Course code* | *Name of Laboratory / Tutorial Course* | *Hrs./week* | | | | *Credits* | *Examination Scheme* | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *L* | *T* | *P* | *D* | | *ISE* | *ESE* | | *ICA* | *Total* |
| | | | | | | | | *POE* | *OE* | | |
| ME211 | Applied Thermodynamics | - | - | - | - | - | - | - | - | - | - |
| ME212 | Mechanics of Materials | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME213 | Manufacturing Processes | - | - | 2 | - | 1 | - | - | 25 | 25 | 50 |
| ME214 | Machine Drawing & CAD | - | - | - | 4 | 2 | - | 50 | - | 50 | 100 |
| ME215 | Professional Elective-I | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| | **Sub Total** | - | - | - | - | **5** | - | **50** | **25** | **125** | **200** |
| | **Grand Total** | **15** | **01** | **04** | **04** | **20** | **150** | **425** | | **125** | **700** |

*Abbreviations: L - Lectures, P - Practical, T - Tutorial, ISE - In Semester Examination, ESE - End Semester Examination (University Examination for Theory & / POE & / Oral), ICA - Internal Continuous Assessment.*

**Professional Elective-I: A.** Microprocessors in Automations **B.** Internal Combustion Engines **C.** Composite Materials

**PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR**

**Faculty of Engineering & Technology**

*Credit System structure of S.Y. B. Tech. Mechanical Engineering W.E.F. 2019-20*

Semester 4

| Course code | Name of Theory Course | Hrs./week | | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | ICA | Total |
| ME221 | Engineering Mathematics –III | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME222 | Manufacturing Technology | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME223 | Fluid Mechanics & Fluid Machines | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME224 | Kinematics & Theory of Machines | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| ME225 | Professional Elective-II | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| | **Sub Total** | **15** | **-** | **-** | **-** | **15** | **150** | **350** | **-** | **500** |
| MEV22 | Environmental Sciences | 1 | - | - | | - | - | - | - | - |

**Semester 4: Laboratory / Tutorial Courses**

| Course code | Name of Laboratory / Tutorial Course | Hrs./week | | | | Credits | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | | ICA | Total |
| | | | | | | | | POE | OE | | |
| ME221 | Engineering Mathematics –III | - | 1 | - | - | 1 | - | - | - | 25 | 25 |
| ME222 | Manufacturing Technology | - | | 2 | - | 1 | - | - | - | 25 | 25 |
| ME223 | Fluid Mechanics & Fluid Machines | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| ME224 | Kinematics & Theory of Machines | - | - | 2 | - | 1 | - | - | 25 | 25 | 50 |
| ME225 | Professional Elective-II | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| ME 226 | Mechanical Workshop-I | - | - | 2 | - | 1 | - | - | - | 50 | 50 |
| ME 227 | Electrical Technology | - | - | 2 | | 1 | - | - | 25 | 25 | 50 |
| | **Sub Total** | **-** | **01** | **12** | **-** | **07** | **-** | **50** | | **200** | **250** |
| | **Grand Total** | **15** | **01** | **12** | **-** | **22** | **150** | **400** | | **200** | **750** |

***Abbreviations:*** *L- Lectures, P –Practical, T- Tutorial, ISE- in Semester Examination, ESE - End Semester Examination (University Examination for Theory & / POE & / Oral), ICA- Internal Continuous Assessment.*

**Professional Elective-II: A.** Mechatronic Systems **B.** Power Plant Engineering **C.** Solid Mechanics

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

**S.Y. B. Tech.–(MechanicalEngineering) Semester-III**

**ME212- MECHANICS OF MATERIALS**

**Teaching Scheme Examination Scheme**

**Theory/Lectures** – 3 Hrs. /Week
**Tutorial**– 1Hr. /Week

**ESE:** 70 Marks
**ISE:** 30 Marks
**ICA:** 25 Marks

Course Introduction: This course consists of topics from the course Strength of Materials which are helpful for mechanical engineers. It consists of basic concepts of stresses &strains induced due to various types of loads which are vital in Design engineering. It includes the topics of simple stresses & strains, strain energy and impact load, Principal stresses & strains and torsion of circular shafts, in the first section. In second section, the topics covered are SFD & BMD for beams, bending stresses in beams, shear stresses in beams and slope & deflection of beams. This course emphasizes the fundamentals of various topics under strength of materials necessary for practicing mechanical engineers in design and inculcates problem solving skill amongst the students.

**Course Objectives:**

After successfully completion of this course, student will have an ability to:

1. Understand concepts of various types of stresses & strains, elastic constants & their relations.
2. Understand concept of strain energy and its significance.
3. Determine principal stresses, shear stresses on structural member under various loading combination analytically and graphically using Mohr's circle method.
4. Calculate the stresses and strains in circular torsion members, and members subject to flexural loadings.
5. Draw shear force and bending moment diagram for supported beam under various types of transverse loading.
6. Calculate bending and shear stresses in beam and determine distribution at any location along the section of beam.
7. Analyze simple bars, beams, and circular shafts for allowable stresses and loads.

**Course Outcomes:**

At the end of course students will be able to:

ME212.1 Determine the stresses, strains and deformation under various axial, torsional and flexural loading.
ME212.2 Determine strain energy in axially loaded members
ME212.3 Calculate principal stresses & position planes in a member subjected to various types of stress system by analytical & graphical method.
ME212.4 Determine torsional shear stress, angle of twist & design dimensions of shaft.
ME212.5 Draw S.F.D, B.M.D and determine shear & bending stresses, slope and

## SECTION – I

**Unit No 01: Simple Stresses and Strains** **No. of lectures-06**

• Unit content: Concept of stress and strain (tensile, compressive & shear), linear & lateral strains, Volumetric strain, Hooke's law, Elastic constants and their relationships, stresses and strains in three dimensions (only numerical treatment), Stress-Strain diagram for ductile and brittle materials, Stresses and deformation in homogeneous and composite bars under concentrated loads.

**Unit No 02: Strain Energy and Impact Load** **No. of lectures-04**

Unit content-Concept of strain energy or resilience, proof resilience and modulus of resilience, determination of strain energy in tension and compression for axially loaded members due to gradual, sudden and impact loads.

**Unit No 03: Principal Stresses and Strains** **No. of lectures-06**

.• Unit content: Normal and shear stresses on any oblique planes, concept of principal planes, principal stresses and maximum shear stress (2-D cases only), positions of principal planes and planes of maximum shear for various cases of loading (2-D only), maximum shear stress, Use of graphical method (Mohr's circle) for determination of principal stresses and maximum shear stresses.

**Unit No 04: Torsion of Circular Shafts** **No. of lectures-04**

• Unit content: Theory of torsion of circular shafts, assumptions, derivation of torsion equation, determination of torsional shear stress and angular twist for solid and hollow shafts in power transmission applications.

## SECTION II

**Unit No 05: Shear Force and Bending Moment Diagrams for Beams** **No. of lectures-06**

• Unit content: Concept of shear force and bending moment in determinate beams due to concentrated loads, UDL, UVL and couples (analytical method only for cantilevers, simply supported and overhanging beams), determination of points of contra shear and contra flexure.

**Unit No 06: Bending Stresses in Beams** **No. of lectures-05**

• Unit content: Introduction, theory of pure bending of beams, assumptions and sign Conventions, bending stress distribution diagram, Flexure's formula derivation, moment of resistance and section modulus, determination of bending stresses for commonly used cross sections (rectangular, I-sections and T-sections ).

**Unit No 07: Shear Stresses in Beams** **No. of lectures-04**

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**S.Y.B. Tech.(Mechanical Engineering) Semester-III**
**ME214 MACHINE DRAWING & CAD**

**Teaching Scheme**
**Lectures** – 3 Hours/week
**Practical** – 4 Hour/week

**Examination Scheme**
**ESE**– 70 Marks
**ISE** – 30 Marks
**ICA** –50 Marks
**OE** – 50 Marks

**Course Introduction:** Drawing is called as language of engineers. This course emphasizes the fundamentals of various topics under machine drawing necessary for practicing mechanical engineers and inculcates problem solving skill amongst the students. Machine drawing on the other hand is the scientific representation of an object, according to certain national and international standards of practice. This course consists of selected topics from the subject Machine Drawing and Engineering Graphics which are helpful for mechanical engineers. It contains BIS convention, free hand sketching & Production drawing which are vital in Design engineering. It covers the topics of BIS conventions, free hand sketching, Production drawing, isometric projections along with assembly and details drawing. Also a very basic step in the process is to model the machine component accurately in the available CAD software packages. This course introduces the commands, procedures, for 2D as well 3D drawing used in such software. Use of software in the engineering design & manufacturing increases the productivity of the designer, improves the quality of design, improves communications through documentation, and creates a database for manufacturing. The course helps in skill development as per the need of the modern day industry & thus, enhances the employability.

**Course Prerequisite:** For this course, student is expected to have-

Knowledge of Engineering Drawing.
Knowledge of geometry.
Basic knowledge of computer operating

**Course Objectives:** During this course, student is expected to

1 To understand & use the principles and requirements of drawing practices as per BIS standards
2 To interpret and apply technique for making assembly from the detail/components
3 To interpret and apply, limits, fits and tolerances to the various machine elements
4 To operate the drafting software

**Course Outcomes:** At the end of this course, student will be able to

At the end of this course, the student will be
1. Able to create drawings as per BIS standards
2. Able to apply technique for assembly drawing from the detail/components

Related Features such as Parallelism, Perpendicularity, Angularity, Concentricity, Tolerance Symbol and Value, Indicating Geometrical Tolerances on drawings.

**Surface Finish:-** Surface Texture, Surface Roughness Number, Roughness Symbols, Range of Roughness obtainable with different manufacturing processes.

*(**Note** : Numerals /calculations/problems/tasks/examples/theoretical questions on UNIT NO.3)*

**Unit 4– Details and Assembly Drawing** No of lectures – 6

To prepare detail drawings from given assembly drawing. To prepare assembly drawing from given drawing of details. Preparation of detailed drawing from the given details such as: Tools post of center lathe, Tail stock, Cross head Assembly, Jigs and fixtures, connecting rod and piston of I.C. Engines, Gland and stuffing box and many more suitable/considerations with moderate difficulty level, etc.

- Selection and showing of all the symbols & surface finish symbols, fits, tolerances for dimensions to details and assembly drawings.

## Section II

**Unit 5– Introduction to Computer Aided Drafting** No of lectures – 7

**(To be completed using suitable drafting package)**

The treatment on 2D Drawing with-

1. Basic commands to draw 2-D objects like line, circle, arc, ellipse, polygon etc.
2. Edit & Modify commands: Erase, extension, break, fillet, chamfer, trim, scale, hatching etc.
3. Dimensioning & text commands
4. Viewing and other : Zoom , pan, block etc.

**Unit 6– 2D drafting – Part Drawing & Isometric Drawing** No of lectures – 4

Introduction to Computer aided drafting for Isometric Drawing. All necessary draw and edit and modify commands. Computer aided drafting (2D) of simple component part drawing & Isometric Drawing of machine components and plotting of drawings (printing process).

**Unit 7– 2D drafting – Assembly & part Drawing** No of lectures – 4

Commands required for Computer aided drafting (2D) and print out of –to draw details drawing from given assembly & assembly drawing from the given details drawing (With limits, fits, tolerances)

**Unit 8– Computer aided drafting (3D)** No of lectures – 5

Introduction to Computer aided drafting (3D), Introduction to modeling: Wireframe, Solid, Surface Modeling, Three dimensional drawing: UCS & three dimensional co-ordinates, Viewing in three dimensions, Solid modeling commands: primitive solids, extrude, revolve, sweep, loft, press pull, etc, Solid editing commands: 3D-rotate, 3D-Move, 3D-Scale, Boolean operations, Slice, Sections, etc.

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**S.V.B. Tech (Mechanical Engineering) Semester-IV**
**ME221 ENGINEERING MATHEMATICS-III**

| **Teaching Scheme** | **Examination Scheme** |
|---|---|
| **Lectures** – 3 Hours/week | **ESE** – 70 Marks |
| **Tutorials** – 1 Hour/week | **ISE** –30 Marks |
| | **ICA**- 25 Marks |

**Course Objectives:**

1. To introduce partial differential equations of first order.
2. To introduce to students Fourier series of periodic functions
3. To introduce numerical methods for evaluating definite integrals.
4. To introduce numerical methods for solving linear and non-linear equations.
5. To introduce concepts of Probability distribution.

**Course Outcomes:**

1. Student can solve partial differential equation of first order
2. Student can express a function in terms of sine and cosine components so as to model simple periodic functions.
3. Student can use numerical methods for evaluating definite integrals.
4. Student can use numerical methods for solving linear and non-linear equations.
5. Student can sketch and explain various probability distribution functions.

**SECTION – I**

**Unit 1: First Order Partial Differential equations** **No. of lectures- 07 Hrs**

Non-linear partial differential Equations of *Type I f(p, q)=0, Type II f(p, q, z) = 0, Type III* $f_1(p, x) = f_2(q, y)$, Linear partial differential equations – Lagranges method, Solution of partial differential equation by method of separation of variables.

**Unit 2: Fourier series:** **No. of lectures- 06 Hrs**

Introduction, Definition, Euler's formula, Fourier series of periodic functions with period 2Π and 2L, Dirichlet's theorem (only statement), even and odd functions, half range sine and cosine series.

**Unit 3: Numerical Integration:** **No. of lectures- 07 Hrs**

Newton Cotes Integration Formula: Trapezoidal rule, Simpson's Rule (1/3rd and 3/8th), Double integration, Integration of Equation: Gauss Quadrature 2 point and 3 point method.

**Section II**

**Unit 4: Solution of Algebraic and Transcendental Equations:** **No. of lectures- 08 Hrs**

Introduction, Basic properties of equations. Bisection Method, False position Method, Newton-Raphson Method, Multiple Roots, Newton's iterative formula for obtaining square root, Muller's Method. System of non linear equations by Newton Raphson Method

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**S. Y. B. Tech. (Mechanical Engg.) Semester-IV**
**ME223 FLUID MECHANICS & FLUID MACHINES**

**Teaching Scheme**
**Theory** – 3 Hrs. /Week
**Laboratory**– 2 Hrs. /Week

**Examination Scheme**
**Theory – ESE** -70 Marks
**ISE** – 30 Mark
**ICA** – 25 Marks

**Course outcomes:** At the end of course, students will be able to

- Solve issues related to fluid statics & kinematics
- Apply Bernouilli's theorem in real world situations
- Perform dimensional analysis for research problems in fluid mechanics
- Solve problems related to drag, lift , drag & lift
- Select / design Pelton, Francis & Kaplan turbines
- Select/design centrifugal pump

## Section - I

**Unit No. 01: Fluid statics** **No. of lectures-05**

•Center of pressure, Total pressure on immersed surfaces – horizontal, vertical & inclined The principle of buoyancy, Archimedes' principle, conditions of equilibrium for submerged & floating bodies, discussions on stability, Meta-center & metacentric height. (No numerical treatment to Metacentric height)

**Unit No. 02: Fluid kinematics** **No. of lectures-05**

• Langrangian & Eulerian method of description of fluid flow, Types of flow with examples, Streamlines, path lines & streak lines, velocity components, local & convective acceleration, velocity potential function, equi-potential lines, Laplace equation governing potential flow, stream function, continuity equation in Cartesian co-ordinates

**Unit No. 03: Fluid dynamics** **No. of lectures-05**

• Euler's equation along a stream line & Bernoulli's equation, applications of Bernoulli's Theorem: Venturi meter, Orifice meter & Pitot tube, Flow through sharp edged small circular orifices, Determination of hydraulic coefficients of an orifice. (No numerical treatment to Orificemeter & Pitot tube)

**Unit No. 04: Flow through pipes** **No. of lectures-05**

Major & minor Energy losses, Darcy-Weisbach equation, loss of head in pipe connections & fittings, equivalent pipe, Hydraulic Gradient Line (HGL) & Total Energy Line (TEL), Siphon (No numerical treatment to HGL, TEL & Siphon), flow through pipes in series &parallel, efficiency of power transmission, maximum transmission of fluid power through

## Section - II

**Unit No. 05: Dimensional Analysis, Similitude and Forces on Immersed Bodies.**

**No. of lectures-05**

Dimensions of Commonly Encountered Fluid Properties , Dimensional Analysis, Rayleigh Theorem , Buckingham's Π theorem, similitude, modeling, Drag & Lift on immersed bodies, Drag & Lift forces on stationary body.

**Unit No.6: Impulse Water Turbines** **No. of lectures – 05**

Euler's equation for rotodynamic machines, Classification of water turbines, Pelton wheel, Work done and efficiencies of Pelton wheel, working proportions of Pelton wheel, Design of Pelton Turbine runner, governing of Pelton turbine.

**Unit No.07: Reaction Water Turbines:** **No of lectures – 05**

Construction and Working of Francis, Kaplan turbine. Work done and efficiencies of Francis & Kaplan turbine, Working Proportions of Francis & Kaplan turbine, Draft tube (Theoretical treatment only for draft tube), Types and function, governing of reaction turbines.

**Unit No. 8: Centrifugal Pumps** **No of lectures – 05**

Working principle, construction, types, various Heads, multistage pumps, Velocity triangles, Minimum starting speed, Maximum Suction Height & Net Positive Suction Head, Methods of priming, Calculations of efficiencies, Discharge, blade angles, Heads, Power required, impeller dimensions, specific speed of pumps, Performance characteristics of pumps.

**Internal Continuous Assessment (ICA)**

**Compulsory:**

1. Numerical & theoretical assignments on basics of fluid mechanics (Properties of fluids & related laws)
2. Numericals on Piezometer, Simple & inverted U tube manometer

Any seven out of the following

1. Determination of meta centric height for a ship
2. Determination of Coefficient of friction for Pipes
3. Verification of Bernoulli's theorem.
4. Calibration of Venturimeter / Orifice meter.
5. Determination of Hydraulic Coefficient of an Orifice.
6. Trial on a Pelton wheel.
7. Trial on a Francis/ Kaplan turbine.
8. Trial on a centrifugal pump.
9. Two problems using CFD software

# SVERI's

# College of Engineering, Pandharpur

## Department of Civil Engineering

## Action Taken Report of the Institution on Feedback Report

- **Letter to the Director, Punyashlok Ahilyadevi Holkar Solapur University about incorporating different suggestions collected from various stakeholders regarding curriculum.**



Shri Vithal Education & Research Institute's
COLLEGE OF ENGINEERING, PANDHARPUR
P.B.No.54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413304, District: Solapur (Maharashtra)
Tel.: (02186) 216063, 9503103757, Toll Free No.: 1800-3000-4131 e-mail.: coe@sveri.ac.in
Website.: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)
NBA Accredited all eligible UG Programmes, NAAC Accreditated Institute,ISO 9001:2015 Certified Institute
Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune.

Ref.: COEP/ 2019-20/858(1) Date: 14/12/2019

To
The Director,
Punyashlok Ahilyadevi Holkar Solapur University,
Dnyanteerth Nagar, Kegaon,
Solapur-Pune National Highway,
Solapur- 413255.

Sub.:- About Major Curriculum Gaps under Civil Engineering.

Respected Sir,

As per the requirement of National Board of Accreditation (NBA), it is required to identify the Curriculum Gaps for all Courses (Subjects), which are to be taught by subject teachers as content beyond syllabus. Accordingly, we have identified Curriculum Gaps for various Subjects under Civil Engineering Programme. We are submitting these identified Curriculum Gaps for your kind perusal and necessary action.

You are requested to kindly do further needful and oblige.

Thank you.

Punyashlok Ahilyadevi Holkar Solapur University, Solapur.
Inward No. 1669/Bm
18 DEC 2019
Asst. Registrar Dy. Registrar (AR & D)

Yours faithfully,

(Dr. B. P. Ronge)
PRINCIPAL

**Encl.:** Details of Major Curriculum Gaps for (Civil Engineering)

19-12-2019

## Civil Engineering Department

# CURRICULUM

**G1. Interior Design and Architectural Aspects**

In the modern era, it is having more importance to interior design & architecture. By introducing this topic will made students more skillful and updated to modern techniques of aesthetic appearance, fascinating interior design and astonishing architectural drawing/design.

**G2. Structural Health Auditing and Repair**

With aging structures there will be great demand of structural health auditing experts. Based on their audit, there is need for suggesting repair strategies. This topic will cover various approaches of Non Destructive terms of civil engineering structures which further involve damage identification, sizing, localization and characterization of damage. This identification becomes useful for predicting the criticality of damage and assessing remaining life of structure.

**G3. Civil Engineering Related Softwares**

Most of the detailed analysis & design work for moderate and large structures is being performed using commercially available software. The efforts will be taken to introduce most frequently used softwares by industries in various domains of drawing, structural design, water resources etc.

**G4. Practical Aspects of Construction Management**

In the curriculum various sub courses of construction management viz, drawings, design, estimation, concrete technology, surveying etc are structured separately. However utilization of all these tools for completing a single project need to be introduced from stage one to final stage.

**G5. Advanced Topics in Civil Engineering**

In the curriculum stress is mainly given on fundamentals of Civil engineering topic. However for onsite implementation of mega projects its essential to get introduced with advanced topics like advanced construction processes and equipments, advanced materials, prefabricated structures etc.

(Dr. B. P. Ronge)
PRINCIPAL

**Minutes of the meeting of the Board of Studies in the Subject of Civil Engineering was held in the University office on 04/02/2020**

पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर
Punyashlok Ahilyadevi Holkar Solapur University, Solapur
केगाव, सोलापूर – ४१३ २५५, महाराष्ट्र (भारत)
दूरध्वनी क्र. ०२१७-२७४३८१ / ७१/ ७८ (११ लाईन्स), फैक्स - ०२१७-२७४३७८,
संकेतस्थळ: http://su.digitaluniversity.ac.in ई-मेल: soc@sus.ac.in registrar@sus.ac.in



अभ्यासमंडळे विभाग

पा.अ.पुअहोसोविसो/अभ्यावि/2020/ दिनांक :

## Minutes

Minutes of the meeting of the **Board/Ad-hoc Board Studies** in the Subject of CIVIL ENGINEERING was held in the University office, on 4 / 12/2020 at 11.30 A.M./~~P.M.~~

**The following members were present:**

| Sr. No. | Name | Sign. |
|---|---|---|
| 1) | Dr. S. A. Halkude | |
| 2) | Dr. Prashant Maruti Pawar | |
| 3) | Dr. S. S. Patil | |
| 4) | Dr. S. S. Koshti | |
| 5) | Dr. Rajendrakumar Harsur | |
| 6) | Dr. M. G. Kalyanshetti | |
| 7) | Dr Ms. V. S. Kshirsagar | |
| 8) | Dr. C. P. Pise | |
| 9) | | |
| 10) | | |
| 11) | | |

**The following business was transacted at the Meeting.**

ItemNo.1:- Confirmation of the last meeting minutes of the Board of Studies in Subject of Civil Engg. was held in the University office, on 4 / 2 /2020. The following members - (i) Mr. S. A. Shaikh (ii) Mr. S. P. Mahajan (iii) Mr. A. A. Kadam requested for leave of absence, and it is granted to them.

Resolution :-

Chairman

# Action Taken Report of the Institution on Feedback Report

(2)

4. मागील बैठकीचे इतिवृत्त वाचून कायम करणे.

दि. 29/5/2025 रोजी झालेल्या

मागील बैठकीचे इतिवृत्त वाचून कायम करण्यात आले

Civil Engg

2. शैक्षणिक वर्ष 2020-21 पासून B.Tech Part- II ~~Information Technology~~ या पाठ्यक्रमाचा निवड आधारित श्रेयांक प्रणालीनुसार (CBCS) अभ्यासक्रम स्विकारून विद्यार्थ्यांकडे शिफारस करण्याची बाब विचारार्थ..

इलेक्ट्रिकल इंजि.

सोबत जोडला आहे

(Page No.-

3. परीक्षेसाठी प्रश्नपत्रिका, परीक्षक व नियामक योग्या नेमणूकी करिता महाराष्ट्र सार्वजनिक अधिनियम, २०१६ कलम ४१(ब) नुसार अभ्यासमंडळ सामायी यादी तयार करून परीक्षक व मुल्यमापन मंडळाकडे शिफारस करण्याची बाब विचारार्थ.

सदरहू याद्या B.O.S. विभागाकडे 13 सप्टेंबर 2025

रोजी सादर करण्यात आलेल्या आहेत

6. B.E., M.E. Part- I या जुन्या अभ्यासक्रमाच्या परीक्षा अभ्यासक्रमानुसार (B.V. B. Tech, M.Tech- Part- I) समकक्ष (Equivalence) निवड तयार करण्याची बाब विचारार्थ.

सदरहू याद्या B.O.S. विभागाकडे 13 सप्टेंबर 2025

रोजी सादर करण्यात आलेल्या आहेत

५. कॉलेजचा डॉक्टर होती पंढरपूर यांचे 24/12/2019 रोजीचे पत्र विचारार्थ - COEP/R/2019-20/858 (1) - 16.12.19
ठराव: पत्रातील मजकुराची नोंद घेऊन त्याप्रमाणे योग्य ती नोंद घेतली आहे.

६.३ Ph. D. कोर्सवर्क अभ्यासक्रम समितीची गठीत करणे बाबत.

पी एच डी कोर्सवर्क अभ्यासक्रम समिती पुढीलप्रमाणे
३ गठित करण्यात आली

1) प्रा डॉ. सतीशकुमार रा. कांबळे
2) प्रा.डॉ. प्रशांत पवार
3) प्रा डॉ. राजेंद्रकुमार हरसूरे

या समितीने अभ्यासक्रम (Ph.D. course work) तयार करावयाचा असून तो अभ्यासक्रम पुढील B.O.S मीटिंग मध्ये मान्यतेसाठी ठेवावा.

६.६ मे. अध्यक्ष यांच्या पूर्वपरवानगीने येणारा आयत्या वेळेचे विषय.

(i) अण्णासाहेब आवेडकर महाविद्यालय इचलकरंजी पत्र क्र. WIT/civil/2019-20/1348 दि. 22-1-2020
ठराव: या पत्रातील मजकुराची नोंद घेऊन त्याप्रमाणे योग्य ते बदल अभ्यासक्रमात केले आहेत.

(ii) IETE Journals सबस्क्रिप्शन बाबत आलेली Email
ठराव - आलेल्या मेल ची नोंद घेतली.

विषय (2) शैक्षणिक वर्ष 2020-21 पासून Page (4)

B Tech Part-II Civil Engg या अभ्यासक्रमास नियुक्त अधिकारी से यांच्या प्रणाली नुसार C (CBCS) या अभ्यासक्रम स्वीकारणा नियमावलीचे परिवर्तन करण्याची आवश्यकता.

हरकत The Board of studies have received various suggestions from, affiliated institutions, representatives of Industry on B.O.S, other Industry experts and various employers of graduates of this University. The institute suggestions also includes suggestions received from Industry Experts.

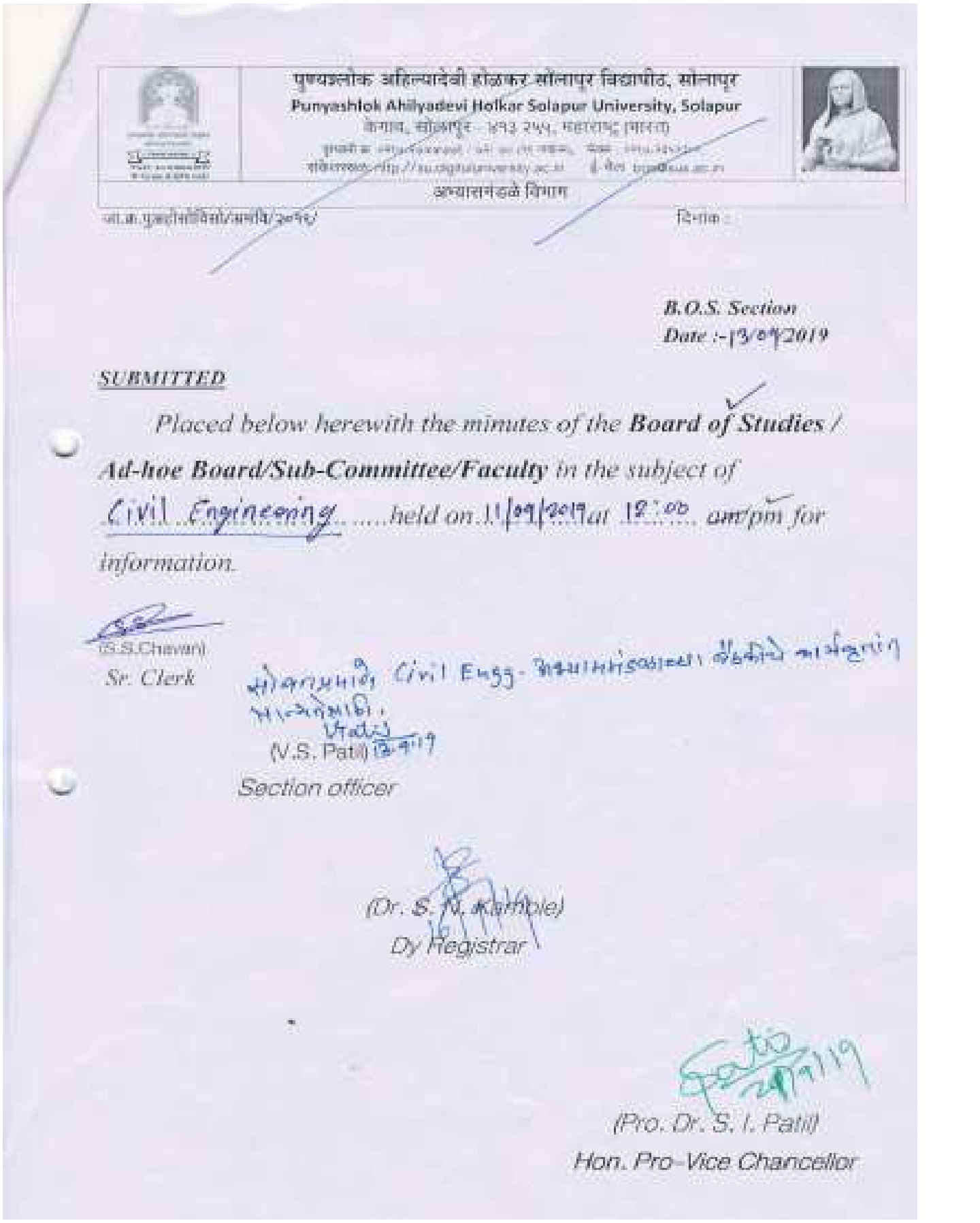
A detailed discussion on suggestions received from the various stakeholders was done in depth and its impact on attainment of POs/PSOs was ~~Home~~ discussed. Accordingly the B.O.S has come to a conclusion for inclusion of suggestions on course content at T.Y.B.Tech-Civil Engg from A.Y. 2020-21.

Accordingly, the structure of T.Y.B Tech. is revised from assessment perspective.

Upon inclusion of suggestions as discussed, the Chairman B.O.S. shall submit 'structure and syllabus' for T.Y.B Tech, Civil Engg from Acadic year 2020-21, within week time with the recommendations for further action to University authorities.

**Minutes of the meeting of the Board Studies in the Subject of Civil Engineering was held in the University office on 11/09/2019**

# Action Taken Report of the Institution on Feedback Report



पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर
Punyashlok Ahilyadevi Holkar Solapur University, Solapur
केगाव, सोलापूर - ४१३ २५५, महाराष्ट्र (भारत)
संकेतस्थळ-http://sus.digitaluniversity.ac.in

अभ्यासमंडळे विभाग

जा.क.पुअहोसोविसो/अभवि/२०१९/ दिनांक :

*B.O.S. Section*
*Date :-13/09/2019*

***SUBMITTED***

*Placed below herewith the minutes of the* ***Board of Studies / Ad-hoe Board/Sub-Committee/Faculty*** *in the subject of* Civil Engineering *held on* 11/09/2019 *at* 12:00 *am/pm for information.*

(S.S.Chavan)
*Sr. Clerk*

Civil Engg- अभ्यासमंडळाच्या पदसिद्ध सदस्यांनी

(V.S. Patil) 13.9.19
*Section officer*

*(Dr. S. N. Kakade)*
*Dy Registrar*

13/9/19
*(Pro. Dr. S. I. Patil)*
*Hon. Pro-Vice Chancellor*

# Action Taken Report of the Institution on Feedback Report

पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर
Punyashlok Ahilyadevi Holkar Solapur University, Solapur
केगाव, सोलापूर - ४९३ २५५, महाराष्ट्र (भारत)



अभ्यासमंडळे विभाग

जा.क्र. पुअहोसोवि/अभवि/२०१९/ दिनांक: 12.9.2019
11/09/2019

## Minutes

Minutes of the meeting of the Board/~~Ad-hoc~~ Board in the Subject of ..Civil Engineering.. was held in the University office, on 12/9/2019 at ..12 Noon.. A.M./P.M.

The following members were present:

| Sr. No. | Name | Signature |
|---|---|---|
| १. | Dr. S.A. Naikwade | |
| २. | Dr. S.S. Patil | |
| ३. | Dr. S.S. Kashid | |
| ४. | Dr. M.G. Kalyanshetti | |
| ५. | Dr. P.M. Pawar | |
| ६. | Mr. S.P. Mahoikar | |
| ७. | | |
| ८. | | |
| ९. | | |
| १०. | | |

**The following business was transacted at the Meeting.**

Item No. 1:- Confirmation of the last meeting minutes of the Ad-hoc Board in the Subject of ..Civil Engg.. was held in the University office, on / /2019.

Resolution:- Above minutes & previous meeting were read and confirmed

Chairman

विषय क्र. 2 सोबत इंडियनिअरिंग च्या विद्यार्थ्यांनी दिलेले पत्र विचारार्थ.

ठराव : सदरहू पत्राची नोंद घेतली.

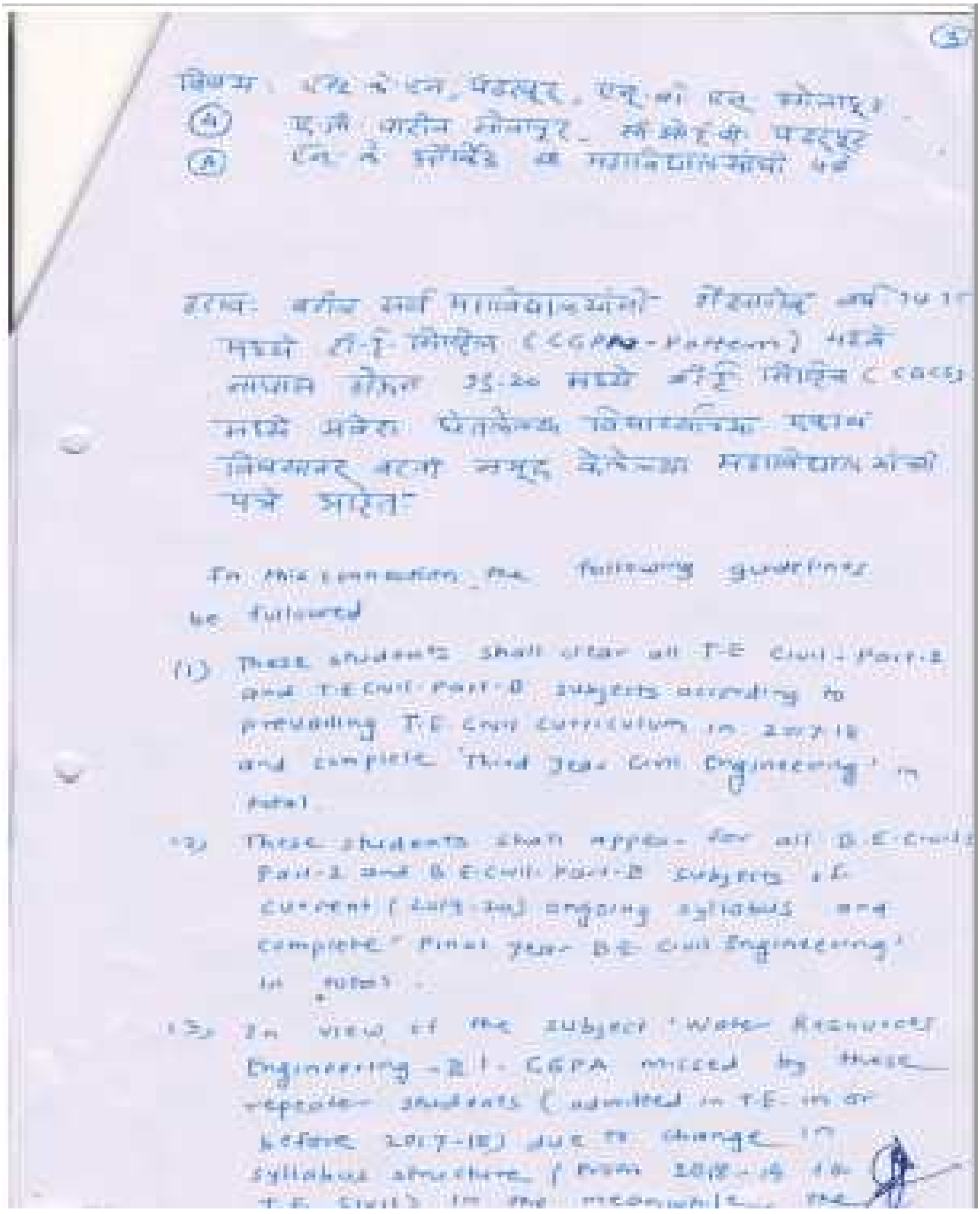
इंडियनिअरिंग ऑर्डिनन्स (अे-ई-ई-बी-१) मॉडर्न एज्यु. एन्ड सोलापूर युनिव्हर्सिटी ऑर्डिनन्स नंबर - २७ प्रमाणे कार्यवाही करावी असे सर्वानुमते ठरले.

विषय क्र - 3 :

S.Y. B Tech. M-Tech. Part-I व B.E या नुकत्या अभ्यासक्रमाची नवीन अभ्यासक्रमाशी तिच्या नवीन अभ्यासक्रमातील समकक्षता (Equivalence) विषय तयार करण्याची बाब विचारार्थ.

ठराव :

S.Y. B Tech., M.Tech. Part-I व B.E या नुकत्या अभ्यासक्रमाची नवीन अभ्यासक्रमातील समकक्षता (Equivalence) विषयांची यादी सोबत जोडली आहे.



(4)

institute shall arrange training of the same subject, carry out assessment ISE and ICA from the students, conduct End Semester Examination at college level and communicate the result to the University at the end of the semester.

Upon completion and confirmation by the Institute as mentioned in E3, University shall issue a certificate to the student stating candidate has completed the course in Water Resources Engineering-II, as issued in the past.

विषय - 4 (B)

औरंगाबाद हायटेक्स्टाईल क्लस्टर इन्फ्रास्ट्रक्चर आणि टेक्नॉलॉजी सारखे वेगवेगळे सेक्टर्स विद्यापीठ / महाविद्यालयाने घ्यावे असा आहे.

उत्तर :

सदर अभ्यासक्रमाची अंमलबजावणी 2022-23 पासून करण्यात येणार असून त्यामध्ये सदरील DBATU या विद्यापीठाचा समावेश आहे. सदर अभ्यासक्रमामध्ये सदरचे स्पेशलायझेशन महाविद्यालय / विद्यापीठ अंतर्गत अभ्यासक्रमाच्या कार्यवाही करावी.

विषय (5) मा. सदरचा आपला [illegible] दुरुस्तीसाठी योग्य ते सहकार्य केल्याचे लिहा

उत्तर : सहकार्य केल्याचे कोणतेही लिखित नाही.

**Minutes of the meeting of the Board Studies in the Subject of Civil Engineering was held in the University office on 10/05/2019**

# Action Taken Report of the Institution on Feedback Report

पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर
**Punyashlok Ahilyadevi Holkar Solapur University,Solapur**

*B.O.S. Section*
*Date :-11/05/2019*

***SUBMITTED***

Placed below herewith the minutes of the **Board of Studies/Ad-hoc Board/Sub-Committee/Faculty** in the subject mentioned in the following table.

| Sr. No. | Name of BOS / Ad-hoc BOS/Sub-Committee | Date of Meeting |
|---|---|---|
| 1. | Civil Engineering BOS | 10/05/2019 |
| 2. | General Engineering BOS | 10/05/2019 |
| 3. | B.Sc.,B.A. B.Com- I Geography BOS | 28/03/2019 |
| 4. | B.Sc. B.A- I. I Geography (S.T.D.) Sub-committee | 11/05/2019 |

सहा. कुलसचिव
प्रभारी शिक्षक

उ.अ.
(प्र.अ.वेदपुरुष)
प्रभा. अधिकारी

(वि.श.पाटील)
कक्ष अधिकारी

(प्रा.डॉ.श.ई.पाटील)
प्र-कुलगुरु

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

# Minutes

Minutes of the m eeting of the **Board/Ad-hoc** Board in the Subject of ..Civil Engineering..... was held in the University office, on 10/ 5 /2019 at..11.30 A.M./P.M.

**The following members were present:**

| Sr. No. | Name | Signature |
|---|---|---|
| 1. | Dr. S.S Patil | |
| 2. | Dr. S.S. Kashid | |
| 3. | Dr. C.S. Pise | |
| 4. | Dr. M.G. Kalyanshetti | |
| 5. | Mr. S.P. Moholkar | |
| 6. | Dr. Prashant M. Pawar | |
| 7. | | |
| 8. | | |
| 9. | | |
| 10. | | |
| 11. | | |
| 12. | | |
| 13. | | |
| 14. | | |
| 15. | | |

**The following business was transacted at the Meeting.**

Item No. 1: Confirmation of the last meeting minutes of the ~~Ad-hoc~~ Board in the Subject of.....Civil Engineering..... was held in the University office, on ~~10/5/2019~~ 28-12-18

Resolution: Minutes of last B.O.S meeting were read and confirmed

Chairman

Principal Dr. S.A. Halkude, Chairman B.O.S. Communicated his inability to attend this meeting due to some official work.

Hence Dr. S.S. Patil, Member B.O.S was requested to chair this meeting. Hence he chaired this meeting.

(2) Submission of B.E Civil Engineering Syllabus (CBC wef 2019-20.

→ B.E. Civil Engineering syllabus (CBCS) pattern with effect from 2019-20 is submitted and accepted. It is now recommended to Academic council for further process

(3) Submission & acceptance of S.Y. B Tech. Civil Engg syllabus (CBCS) w.e.f. 2019-20.

→ S.Y. B. Tech. Civil Engg (CBCS) syllabus w.e. from 2019-20 is submitted and accepted. It is now recommended to Academic council for further process.

(4) M. Tech - I, Semester - II - civil Engineering (CBCS pattern) structure & syllabus submission & acceptance.

→ M. Tech. E. Semester II - Civil Engineering (Structural Engg) (CBCS pattern) structure and syllabus is submitted and accepted. It is recommended to Academic council for further process.

(5) M.Tech.- Second year - Civil structural Engg (CBCS pattern) syllabus & structure to be submitted & accepted.-

→ M. Tech. Second year. Civil structural Engg (CBCS pattern) Syllabus & structure is submitted and accepted.

It is now recommended to academic council for further process.

(6) Panel of examiners, moderators & paper-setters to be submitted -

→ Panel of paper setters, examiners & moderators as per M.U.A. 2016 (41 CC) is already submitted.

(7) Equivalence of new syllabus with old syllabus -

→ ~~Please write~~ The equivalence revised course curriculum of previous course curriculum is submitted.

(8) Subject with permission of chairman.-

~~Please~~

→ There was no such subject.

Note; All syllabi viz. B.E Civil (CBCS), M.Tech (CBCS) Civil Struct. Engg. B.Tech. Civil Engg. are formulated based on feedbacks received from various stakeholders viz. Industry experts, subject experts from faculty, Alumni, current students, parents etc.

Signatures of members,

1) Dr. S.S. Pathi —

2) Dr. S.S. Kashid —

3) Dr. C.P. Pise —

4) Dr. M.G. Kalyanshetti —

5) Mr. S.P. Mokalkar —

6) Dr. P.M. Pawar —

Read & Confirm

# Action Taken (New Content / Topic Added) in the Curriculum

**PUNYASHLOK AHILYADEVI HOLKARSOLAPUR UNIVERSITY, SOLAPUR**
**Faculty of Science & Technology**
**Credit System structure of S. Y. B. Tech. Civil Engg.- I, Semester- III, (W.E.F. 2019-2020)**

| Course Code | Theory Course Name | Hrs./week | | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | ICA | Total |
| CV211 | Concrete Technology, Material Testing & Evaluation | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| CV212 | Surveying & Geomatics | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| CV213 | Building Construction & Drawing | 2 | - | - | - | 2 | 30 | 70 | - | 100 |
| CV214 | Introduction to Fluid mechanics | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| CV215 | Engineering Geology | 2 | - | - | - | 2 | 30 | 70 | - | 100 |
| CV216 | Introduction to Solid Mechanics | 3 | 1* | - | - | 4 | 30 | 70 | - | 100 |
| CV217 | Energy Science & Engineering | 1 | - | - | - | 1 | 25 | - | - | 25 |
| | **Total** | **17** | **1** | **-** | **-** | **18** | **205** | **420** | **-** | **625** |
| | **Laboratory/Drawings** | | | | | | | **POE** | **OE** | |
| CV211 | Concrete Technology, Material Testing & Evaluation | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| CV212 | Surveying & Geomatics | - | - | 2 | - | 1 | - | 25 | - | 25 | 50 |
| CV213 | Building Construction & Drawing | - | - | - | 2 | 1 | - | - | - | 25 | 25 |
| CV214 | Introduction to Fluid mechanics | - | - | 2 | - | 1 | - | 25 | - | 25 | 50 |
| CV215 | Engineering Geology | - | - | 2 | - | 1 | - | 25 | - | 25 | 50 |
| CV218 | Lab practice | - | - | 2 | - | 1 | - | - | - | 25 | 25 |
| | **Total** | **-** | **-** | **10** | **-** | **6** | **-** | **75** | | **150** | **225** |
| | **Grand Total** | **17** | **1** | **10** | **2** | **24** | **205** | **495** | | **150** | **850** |
| | Environmental Science | 1 | – | – | - | – | – | – | | – | – |

**Abbreviations:** L- Lectures, P –Practical, T- Tutorial, D- Drawing, ISE -Internal Tests, ESE - University Examination (Theory &/ POE &/Oral examination), ICA- Internal Continuous Assessment.

## PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR

**Faculty of Science & Technology**

**Credit System structure of S. Y. B. Tech. Civil Engg., Semester – IV, W. E.F. 2019-2020**

| Course Code | Theory Course Name | Hrs./week | | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | ICA | Total |
| CV221 | Water Supply Engineering | 3 | - | - | - | 3 | 30 | 70 | - | 100 |
| CV222 | Building Planning & Design | 3 | - | - | - | 3 | 15 | 35 | - | **50** |
| CV223 | Hydraulic Engineering | 3 | - | - | - | 3 | 30 | 70 | - | **100** |
| CV224 | Open Elective-I: ICT for development | 2 | - | - | - | 2 | 50 | - | - | **50** |
| CV225 | Structural Analysis | 3 | - | - | - | 3 | 30 | 70 | 25 | **125** |
| CV226 | Engineering Mathematics-III | 3 | 1 | - | - | 4 | 30 | 70 | 25 | **125** |
| | **Total** | **17** | **1** | **-** | **-** | **18** | **185** | **315** | **50** | **550** |
| | **Laboratory/Drawings:** | | | | | | | **POE** / **OE** | | |
| CV221 | Water Supply Engineering | - | - | 2 | - | 1 | - | - / - | 25 | 25 |
| CV222 | Building Planning & Design | - | - | - | 2 | 1 | - | 75 / - | 50 | **125** |
| CV223 | Hydraulic Engineering | - | - | 2 | - | 1 | - | - / - | 25 | **25** |
| CV224 | Open Elective- I : ICT for development | - | - | 2 | - | 1 | - | - / - | 50 | **50** |
| CV227 | Computer Programming & Numerical Methods | 2 | - | 2 | - | 3 | - | 50 / - | 25 | 75 |
| | **Total** | **2** | **0** | **8** | **2** | **7** | **-** | **125** | **175** | **300** |
| | **Grand Total** | **19** | **1** | **8** | **2** | **25** | **185** | **415** | **225** | **850** |
| | Environmental Science | **1** | – | – | | – | – | – | – | – |

**Abbreviations:** L- Lectures, P –Practical, T- Tutorial, D- Drawing, ISE -Internal Tests, ESE - University Examination (Theory &/ POE &/Oral examination), ICA- Internal Continuous Assessment.

**PUNYASHLOK AHILYADEVI HOLKAR**
**SOLAPUR UNIVERSITY, SOLAPUR**
**S. Y. B. Tech. (Civil Engineering) – I, Semester- III**
**CV211: CONCRETE TECHNOLOGY, MATERIAL TESTING & EVALUATION**

| **Teaching Scheme** | **Examination Scheme** |
|---|---|
| **Lectures** – 3 Hrs/Week, 3 Credits | **ISE** – 30 Marks |
| **Practical** – 2 Hr/Week, 1 Credit | **ESE** –70 Marks |
| | **ICA** – 25 Marks |

**Course Objectives:**

1) To acquaint students with properties of various ingredients of concrete
2) To introduce students to properties of fresh and hardened concrete
3) To educate students about admixtures in concrete & construction chemicals
4) To impart knowledge of various methods of concrete mix design.
5) To educate students about testing of various construction materials.

**Course Outcomes:**

On completion of the course students will be able to:

1) Carry out testing of various ingredients of concrete for mix design of concrete
2) Select appropriate type of concrete, admixture and chemicals for specific requirements.
3) Design a concrete mix of required strength and durability, for given field conditions, using suitable ingredients
4) To evaluate properties of construction materials viz. steel, bricks, timber, tiles etc. in laboratory for the quality assurance

**Unit 1: Ingredients of Concrete:- Cement** **(5 Hrs)**

Hot and dry manufacturing process, significance of physical properties of cement such as fineness, consistency test, initial & final setting time, soundness, compressive strength, specific gravity. Hydration of cement, chemical compounds in cement & their properties. Types of cement- ordinary Portland, Portland pozzolana, rapid hardening Portland cement, quick setting cement, sulphur resisting cement.

**Unit 7: Concrete Mix Design** **(10 Hrs)**

Design Mix Concrete, nominal Mix Concrete, objectives of mix design, factors governing mix design, methods of expressing proportions ACI method, IS 10262:2009 code method, road Note No.4 method, trial mixes, and Acceptance criteria.

Quality control of concrete – Factors causing variations, field control.

**Unit 8: Testing of Materials** **(5 Hrs)**

Tension test on Mild and Tor Steel, Compression test on Mild Steel & Cast Iron, Compression test on Timber (Parallel and across the grains), Shear test on Mild Steel, Brinell or Rockwell Hardness test on different metals, Flexural test & Abrasion test on flooring tiles, Water absorption, Effloresecence and Compression test on burnt Bricks

**INTERNAL CONTINUOUS ASSESSMENT (ICA)**

A. **Testing of cement**

(1) Consistency, (2) Fineness, (3) Setting time,(4) Specific Gravity (5) Soundness (6) Strength

**B. Testing of aggregates**

1. Specific Gravity & Water absorption of Coarse Aggregate & Fine Aggregate
2. Sieve analysis of Coarse Aggregate & Fine Aggregate
3. Bulk density of Coarse Aggregate & Fine Aggregate
4. Flakiness index of Coarse Aggregate
5. Elongation index of Coarse Aggregate
6. Bulking of Fine aggregate
7. Silt Content of Fine Aggregate

**C. Tests on Concrete:**

**Workability tests**:

(1) Slump test (2) Compaction Factor test (3) Vee-bee test (4) Flow table test

**Strength tests:**

(1) Compressive strength test (2) Flexural strength test

b) **Computation of Coordinates:-** Transformation from Global to Local Datum , Geodetic Coordinates to map coordinates , G.P.S. Heights and mean sea level Heights. Applications of G.P.S.

**Unit 5: Remote Sensing Techniques (RST)** **(7 Hrs)**

a) **Terrestrial and Aerial Photogrammetry**: Principles, Phototheodolite, Aerial Camera. Vertical aerial Photogrammetry: Scale, Relief Displacement, flight planning, Ground control Stereoscopy and photo interpretation: stereoscopes, Parallax Bar, Plotting instruments

b) **Unmanned Aerial Vehicle (Drone)** -Introduction

c) **Electromagnetic remote sensing**: Physics of radiant energy: Nature of Electromagnetic radiation, Electromagnetic spectrum, Energy sources and its characteristics. Atmospheric influences: Absorption, Scattering. Energy interaction with Earth Surfaces: Spectral reflectance Curve. Image Acquisition: Photographic sensors, Digital Data, Earth Resource satellites, Image resolution. Image Interpretation. Applications of Remote Sensing.

**Unit 6: Geographical Information System (GIS) and Project Survey** **(7 Hrs)**

a) **Geographical Information System (GIS):** Information systems, spatial and non- spatial Information, geographical concept and terminology, advantages of GIS, Basic component of GIS.GIS hardware and software. Field data, statistical data, maps, aerial Photographs, satellite data, points , lines, and areas features, vector and raster data, data entry through keyboard, digitizer and scanners, preprocessing of data rectification and registration, interpolation techniques.

b) **Project Surveys**

a) Building Lineout and layout

b) Route Survey

c) Culvert and Bridges

d) Tunnel, Mine: Centre line transfer, Level transfer, Weisbach triangle

**PUNYASHLOK AHILYADEVI HOLKAR**
**SOLAPUR UNIVERSITY, SOLAPUR**
**S. Y. B. Tech. (Civil Engineering) – I, Semester- III**
**CV213: BUILDING CONSTRUCTION AND DRAWING**

**Teaching Scheme**
Lectures – 2 Hours/week, 2 Credits
Drawings – 2 Hour/week, 1Credit

**Examination Scheme**
**ESE –** 70 Marks
(Theory Paper of 4 Hours duration)
**ISE –** 30 Marks
**ICA-** 25 Marks

**Course Objectives:**

1) To introduce students to functional requirements of buildings.
2) To introduce students to Scale and various types of Scale.
3) The impart knowledge of various building components such as door, windows, arches, floors etc along with its functions and method of construction.
4) To explain methodology adopted for design of various types of staircases.
5) To enable students to draw perspective view of a building.
6) To make the student conversant with various building finishes, ventilation and air conditioning principles

**Course Outcomes:**

After successful completion of this course the students will be able to:

1) Elucidate functional requirements of buildings and types of foundation and its suitability.
2) Draw neat drawings of different building components such as doors, windows, stairs etc with the suitable scale using CADD software.
3) Design different types of staircases commonly used in residential and public buildings.
4) Draw neat perspective view drawings of an object and given small residential building.
5) Select appropriate ventilation systems and building finishes.

**INTERNAL CONTINUOUS ASSESSMENT (ICA)**

- For drawing session

(A) Sketching in sketchbook consisting of the following 9 drawing exercises:

1. Lettering, Symbols and line work.
2. Building structures (Load bearing & Framed structures)
3. Foundations- Isolated footing, combined footing, Strap footing and Pile footing.
4. Brick bonds
5. Arches and Roofs.
6. Doors
7. Windows
8. Staircases
9. Perspective drawing of object and one G+1 Residential building (Ready plan).

(B) Drawing using CADD software to be done:

1. Double leaf paneled doors
2. Double leaf paneled window
3. Open well staircase

Prints of these CADD drawings will form a part of "Term work".

- Site Visit for learning construction details of a residential building. A visit report to be drafted and submitted as a part of term work.

**TEXT BOOKS**

1) A text book of Building Construction- Arora & Bindra- Dhanpat Rai Publication, New Delhi.
2) Building Construction- Sushil Kumar- Standard Publishers, Delhi.
3) Building Construction – Arora & Gupta –Satya Prakashan, New Delhi.
4) Principles of Building Drawing- M.G. Shah and C.M. Kale.
5) A course in Civil Engineering Drawing- V.B. Sikka – S.K.Kataria & Sons, Delhi.
6) Civil Engineering Construction Materials, S.K. Sharma, KBP House
7) Engineering Drawing + AutoCAD , by K.Venugopal , New Age International Publishers
8) Mastering AutoCAD 2019 and AutoCAD LT 2019, George Omura and Brian C. Benton, SYBEX Publishers.

**PUNYASHLOK AHILYADEVI HOLKAR**
**SOLAPUR UNIVERSITY, SOLAPUR**
**S. Y. B. Tech. (Civil Engineering) – II, Semester- IV**
**CV222: BUILDING PLANNING AND DESIGN**

**Teaching Scheme**
**Lectures** – 3 Hours/week, 3 Credits

**Drawing** – 2 Hour/week, 1 Credit

**Examination Scheme**
**ESE – 35** Marks
(Theory Paper of 2 Hours duration)
**ISE – 15** Marks
**ESE (POE) - 75** Marks
**ICA- 50** Marks

**Course Objectives:**

1) To impart knowledge of the principles of planning and building byelaws, rules and regulations
2) To enable students to draft 'Municipal building permission drawings' of a residential buildings
3) To impart knowledge of various building services.
4) To impart the knowledge of sustainable buildings, Green buildings, low cost housing and rain water harvesting techniques.
5) To introduce to the principles of acoustics, sound insulation and fire insulation

**Course Outcomes:**

**After successful completion of the course the students will be able to:**

1) Plan residential and public buildings, according to the prevalent building byelaws
2) Prepare 'Municipal building permission drawings' of a residential buildings using CADD software tools.
3) Plan appropriate building services for a building
4) Design a rain water harvesting system for a building.
5) Plan appropriate acoustics, sound insulation and fire fighting arrangements for a building

**Unit 4: Building Permissions and its Procedure** **(5 Hrs)**

- Procedure and list of document for Building Permission and significance of various certificates (Commencement Certificate, Plinth Completion Certificate and Occupancy certificate).

**SECTION II**

**Unit 5: Building Services** **(5 Hrs)**

- Plumbing Systems:- Significance of Plumbing and Drainage plan and layout, Water Supply Requirements for Buildings, various types of traps, Fittings, Chambers and various type of materials like PVC, GI, AC, CI, HDPE, Stoneware, CPVC with various gauges and thickness, Water Closet Pan: Types and sizes.
- Introduction to Concept and Design of Rain Water Harvesting.
- Electrification: - Concealed and open wiring system, requirements and locations of various Electrical points, Concept of Earthing.

**Unit 6: Green Buildings and Low Cost Housing** **(5 Hrs)**

- Computer aided design and drawing, Development of plan, Elevation and Section. Concepts of Green Building and energy efficient buildings.
- Low cost Housing, Materials & methods (Conceptual introduction only).

**Unit 7: Acoustics and Sound Insulation** **(6 Hrs)**

- Acoustics:- Sound Frequency, Intensity, sound decibel rating, absorption of sound-Various materials. Sabine's formula, optimum reverberation time, conditions for good acoustics, effect of reflectors, flat ceiling, design of an auditorium, defects in auditorium and remedies, acoustics of various buildings such as Auditorium hall, Classrooms, broadcasting room etc.
- Sound insulation:- Acceptable noise level – Noise prevention at its source, transmission of noise, Noise control- general Consideration.

**(B) Report of Planning & Design of a building, selected for a project work –**

The report shall include the Line plan, Principles of planning adopted, Byelaws, Rules and regulations followed while planning, Design calculations for Staircase, Sanitary requirements, etc.

## END SEMESTER EXAMINATION

**(1) Theory examination (35 marks, 2 Hours)**

It will consist of theory and sketching questions based on full syllabus of the subject. However, it will ***not*** include development of residential/public building drawing on drawing sheets.

**(2) Practical & Oral (50 marks)**

a) Practical examination shall consist of planning of residential building and development of drawings using CADD drafting tool during practical examination. The assessment will be based on knowledge of student about building planning and CADD drafting skills depicted by the candidate during practical examination. Maximum two hours shall be allotted to the students to complete given task on CADD software tool during Practical examination.

b) In addition Oral examination shall be based on CADD drawing developed during practical examination and term work.

## TEXT BOOKS

1) Building Design and Drawing: Y.S. Sane-Allies Book Stall, Pune
2) Building Design and Drawing : Shaha, Kale & Patki – T.M.H., New Delhi
3) Building Construction : Sushilkumar –Standard Publishers, Delhi
4) Building Construction : N.K.R. Murthy -Allies Book Stall, Pune
5) Building Construction: Arora and Gupta – Satya Prakash, New Delhi.
6) A Text book of building Construction: Bindra, Arora – Dhanpat Rai Publications.

**PUNYASHLOK AHILYADEVI HOLKAR**
**SOLAPUR UNIVERSITY, SOLAPUR**
**S. Y. B. Tech. (Civil Engineering) – II, Semester- IV**
**CV224: ICT for Development (Open Elective-I)**

| **Teaching Scheme** | **Examination Scheme** |
|---|---|
| **Lectures – 2** Hrs/Week, 2 Credits | ISE – 50 Marks |
| **Practicals – 2** Hr/Week, 1 Credit | **ICA-50 marks** |

**Course Objectives:**

To make the students aware of Information Communication Technologies (ICT), E-services, Information processing tools, LaTex, Netiquettes & plagiarism.

**Course Outcomes:**

Students will be able to

1) Use Learning Management system like MOODLE
2) Prepare documents and Presentations using information processing tools.
3) Use spreadsheets & databases for problem solving in civil engineering
4) Prepare reports using LaTex.
5) Create basic website using Wordpress.
6) Get acquainted with Netiquettes and plagiarism.

1. **Basics of ICT :** **(2 Hrs)**

Introduction to ICT, World Wide Web, Web servers, Web Clients, Web sites, Web Pages, Web Browsers, Blogs, News groups, HTML, Web address, HTTP, FTP, downloading and uploading files from remote site, Web Services, Use of Google Drive, Docs and Forms, Free and open-source learning management system *(e.g. - Moodle)*

2. **e-Services:** **(2 Hrs)**

e-Commerce, e-Banking, e-Governance, ICT for sustainable development

3. **Information processing tools (MS-office/Libre Office)**

a. **Word processing:** **(4 Hrs)**

Creation/drafting of documents using shapes, smartart, charts, clipart, tables, equations etc. proofing and tracking changes in documents, mailmerge, inserting header, footer, page numbers, sections, watermarks etc.

b. **Spreadsheets:** **(4 Hrs)**

Collection and calculation of data, Use of functions (logical, mathematical, statistical etc.) Graphical Representation of data

c. **Presentation:** **(3 Hrs)**

Design of slides using shapes, table, smart art, clip art, charts, media clips, hyperlinks etc., Custom animations

d. **Database:** **(4 Hrs)**

Create database, create table, insert, update, delete records into tables, import/export data, Query execution

4. **Report writing (LaTeX):** **(3 Hrs)**

LaTeX on Windows using TeXworks, report writing, letter writing, mathematical typesetting, Equations, tables and figures, Beamer, Bibliography, Feedback diagram with Maths

5. **Netiquettes:** **(3 Hrs)**

Internet Etiquettes, Netiquette Basics: Core Rules of Netiquette, Introduction to Electronic Mail, Netiquette for Discussion Groups , Netiquette for Information Retrieval, Egregious Violations of Netiquette

6. **Website design:** **(3 Hrs)**

Word press for website creation, creating blogs

7. **Plagiarism:** **(2 Hrs)**

Importance, prevention and detection, Tools

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**




**Name of the Faculty: Science & Technology**

**CHOICE BASED CREDIT SYSTEM**

**Syllabus**

**T.Y. B. Tech (Civil Engineering)**

**w. e. f. Academic Year 2020-21**

**PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR**

**Faculty of SCIENCE & TECHNOLOGY**

**Credit System structure of T. Y. B. Tech. Civil Engineering, Semester- I, (W.E.F. 2020-2021)**

| Course Code | Theory Course Name | Hrs./week | | | | Credits | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | D | | ISE | ESE | | ICA | Total |
| CV311 | Design of Steel Structures | 3 | 1 | - | - | 4 | 30 | 70 | | 25 | 125 |
| CV312 | Geotechnical Engineering | 4 | - | - | - | 4 | 30 | 70 | | - | 100 |
| CV313 | Waste water Engineering & Air Pollution | 3 | - | - | - | 3 | 30 | 70 | | - | 100 |
| CV314 | Highway & Tunnel Engineering | 4 | - | - | - | 4 | 30 | 70 | | - | 100 |
| CV315 | Hydrology and Water Resources Engineering | 3 | 1 | - | - | 4 | 30 | 70 | | 25 | **125** |
| CV316 | Self Learning Module-I (H. S. S.) | - | - | - | - | 2 | - | 50 | | - | 50 |
| | **Total** | **17** | **2** | | | **21** | **150** | **400** | | **50** | **600** |
| | **Laboratory/Drawings** | | | | | | | **POE** | **OE** | | |
| CV312 | Geotechnical Engineering | - | - | 2 | - | 1 | - | 25 | - | 25 | 50 |
| CV313 | Waste water Engg. & Air Pollution | - | - | 2 | - | 1 | - | - | 25 | 25 | 50 |
| CV314 | Highway & Tunnel Engineering | - | - | 2 | - | 1 | - | | - | 25 | 25 |
| CV317 | Planning & Design of Public Buildings | 1 | - | - | 2 | 2 | - | 50 | - | 25 | 75 |
| CV318 | Mini Project * | - | - | 2 | - | 1 | - | - | - | 50 | 50 |
| | **Total** | **1** | **-** | **8** | **2** | **6** | **-** | **100** | | **150** | **250** |
| | **Grand Total** | **18** | **2** | **8** | **2** | **27** | **150** | **500** | | **200** | **850** |

**Abbreviations:** L- Lectures, P -Practical, T- Tutorial, D-Drawing., ISE -Internal Tests, ESE- University Examination (Theory&/ POE &/Oral examination), ICA- Internal Continuous Assessment.

*The students shall carry out 'Mini Project' using suitable application software /Carry out suitable Experimental work/ Carry out variety of Civil Engineering Surveys and present a report. The Mini project shall be assessed by the respective guide for ICA.

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

**T.Y. B. Tech Civil – Part I**

**CV- 314 HIGHWAY & TUNNEL ENGINEERING**

| **Teaching Scheme** | **Examination Scheme** |
|---|---|
| **Lectures :-** 4 Hrs/Week, 4 Credits | **ISE:** 30 Marks |
| **Practical :-** 2 Hrs/Week, 1 Credit | **ESE:** 70 Marks |
| | **ICA:** 25 Marks |

**Course Outcomes:**

After completion of the course, students will be able to

1. Choose the ideal alignment for highways after thorough understanding of planning and different surveys.
2. Design various geometric elements of highway as per IRC standards.
2. Evaluate the pavement materials through various tests in the laboratory and design the crust thickness of pavements as per IRC standards.
4. Describe the different steps in highway construction and select appropriate drainage system.
5. Determine the highway economic cost by different methods of highway projects and explain highway financing.
6. Select appropriate method of tunnel construction in different types of soils.

**SECTION- I**

**Unit 1:** **(10)**

**Introduction to Transportation engineering**: Modes of transportations, their importance and limitations, the importance of highway transportation.

**Highway Development and Planning**: Principles of Highway planning, Road development in India, Classification of roads, road network patterns, Planning Surveys. Salient features of road development plan 2021 and present scenario of road development in India

**Highway Alignment and Surveys**: Requirements, Engineering Surveys.

**Unit 2:** **(10)**

**Highway Geometric Design**: Cross Section elements, carriageways, camber, stopping and overtaking sight distances, Sight distance at uncontrolled intersection Horizontal alignment-

Curves, design of super elevation, extra widening, transition curves, Set back distance and design of vertical curves.

**Unit 3:** **(9)**

**Highway Materials**: Properties of sub grade and pavement component materials, Tests on subgrade soils (CBR and Plate load tests), properties and requirements of road aggregates and bituminous materials, bituminous mix design by Marshall Method. Applications of Geosynthetics and Modified Binders in road construction.

**SECTION- II**

**Unit 4:** **(8)**

**Pavement Design:** Types of pavements, Design parameters, Axle and Wheel load, tyre pressure, ESWL concept, EWL factors, IRC method of flexible pavement design based on CSA method using IRC-37-2018. Analysis of wheel load and temperature stresses of rigid pavement, joints, Design of Rigid Pavement as per IRC-58-2015.

**Unit 5:** **(6)**

**Highway Construction and Maintenance**: Specifications, construction steps and quality control tests for Granular sub base course, Water Bound Macadam, Wet Mix macadam, bituminous concrete pavement, Cement Concrete pavement.

**Unit 6:** **(5)**

**Highway Maintenance**: Pavement failures (flexible and rigid), causes and remedies, Pavement evaluation, Functional and Structural evaluation.

**Highway drainage**: Surface and sub-surface drainage.

**Unit 7:** **(5)**

**Highway Economics and Financing**: Highway user benefits – VOC using charts only – Highway costs – Economic analysis by annual cost method and benefit cost ratio methods. Highway financing – BOT, DBFOT, BOOT and Hybrid Annuity concepts.

**Unit 8:** **(5)**

**Tunnel Engineering**: Introduction to tunneling, size and shape of tunnel and suitability, tunneling through soils, soft and hard rocks, tunnel lining, drainage and ventilation.

**INTERNAL CONTINUOUS ASSESSMENT (ICA)**

**Name of Tests:-**

**Test on Aggregates**

1. Impact test on aggregate
2. Abrasion Test on aggregate
3. Crushing strength test on aggregate
4. Soundness test on aggregate
5. Shape test on aggregate

**Test on Soil**

1. CBR test on soil
2. Compaction test on soil

**Test on Bitumen**

1. Penetration test on bitumen
2. Ductility test on bitumen
3. Softening Point test on bitumen
4. Specific gravity test on bitumen 8.
5. Flash and Fire point test on bitumen
6. Viscosity Test on Bitumen.

**Functional Evaluation of Pavement**

1. Demonstration of Benkelman Beam Deflection Survey
2. Demonstration of road roughness survey by MERLIN and Bump Integrator

From the above tests, Minimum 10 Tests have to be performed and assignments on each unit based on syllabus.

Field visits to highway construction site, Hot Mix Plants, Pug Mill plants, RMC plants and quarry and crusher units

**TEXT BOOKS**

1. Highway Engineering By C.E.G.Justo, A. Veeraragavan& S.K.Khanna., *Nemchand Bros.*
2. Harbour, Dock and Tunnel engineering By R. Shrinivasan, *Charotar Publishing House.*
3. Transportation Engineering By Subramanian. K.P Scitech Publications, Chennai.
4. Principles of Transportation and Highway Engineering By Rao, G.V., McGraw – Hill Publishing Company Limited, New Delhi.
5. Highway Engineering, Kadiyali L.R, Khanna Publishers, New Delhi

**REFERENCE BOOKS**

1. Principles of Transportation Engineering, Partha Chakroborty and Animesh Das, PHI Publication.
2. Transportation Engineering – An Introduction, Khistry, C.J., PHI Publication.
3. Specifications of Road and Bridge Works (MoRTH) Publication – 5th Revision. New Delhi.
4. IRC: 37-2018, IRC: 58-2015 and other relevant IRC codes

# SVERI's
# College of Engineering, Pandharpur

## Department of Electronics & Tele-Communication Engineering

## Action Taken Report of the Institution on Feedback Report

# Action Taken Report of the Institution on Feedback Report

**Letter to BOS in E&T Engineering, Punyashlok Ahilyadevi Holkar Solapur University about incorporating different suggestions collected from various stakeholders regarding curriculum.**

Shri Vithal Education & Research Institute's
COLLEGE OF ENGINEERING, PANDHARPUR
P.B.No. 54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413 304, Dist. Solapur (Maharashtra) Tel : 7755990201
Toll Free No. : 1800-300-4131 E-mail : coe@sveri.ac.in Website : www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)
Accredited by The Indian Institution of Engineers (India), Kolkata and TCS, Pune. ISO 9001:2008 Certified Institute

Ref. : COEPR/2018-2019/2194

Date : 31/03/2019

To,
The Director,
Board of University Examinations and Evaluation,
Solapur University, Solapur
Dnyanteerth Nagar, Kegaon,
Solapur-Pune National Highway,
Solapur-413255, Maharashtra (India)

**Subject:** About Curriculum Gaps under Electronics and Telecommunication Engineering

Dear Sir,

As per the requirement of National Board of Accreditation (NBA), it is required to identify the Curriculum Gaps for all Courses (Subjects), which are to be taught by subject teachers as content beyond syllabus. Accordingly, we have identified Curriculum Gaps for various Subjects under Electronics and Telecommunication Engineering Programme. We are submitting these identified Curriculum Gaps along with broader gap for your kind perusal and necessary action.

You are requested to kindly do further needful and oblige.

Thank You.

COLLEGE OF ENGINEERING PANDHARPUR

Yours faithfully,

B. Ranse

(PRINCIPAL)

**Encl:** Details of Curriculum Gaps for S.E, T.E. and B.E. (Electronics and Telecommunication Engineering) Part –I& II.

# Action Taken Report of the Institution on Feedback Report

Shri Vithal Education & Research Institute's
COLLEGE OF ENGINEERING, PANDHARPUR
P.B.No. 54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413 304, Dist. Solapur (Maharashtra) Tel.: 7755990201
Toll Free No. - 1800-3000-4131, E-mail: coe@sveri.ac.in, Website: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)
Accredited by The Indian Institution of Engineers (India), Kolkata and TCS, Pune. ISO 9001:2008 Certified Institute

Ref.:- COEPR/2018-2019/2194 Date:- 31/03/2019

To,
The Director,
Board of University Examinations and Evaluation,
Solapur University, Solapur
Dnyanteerth Nagar, Kegaon,
Solapur-Pune National Highway,
Solapur-413255, Maharashtra (India)

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You are requested to kindly do further needful and oblige.

Thank You,

Yours faithfully,

B Range

(PRINCIPAL)

**Encl:** Details of Curriculum Gaps for S.E, T.E. and B.E. (Electronics and Telecommunication Engineering) Part –I& II.

## BROADER CURRICULUM GAP

### G1 .CAD and EDA tools for Electronics Systems

Electronic design automation (EDA) also referred to as electronic computer-aided design (ECAD), is a category of software tools for designing electronic systems such as integrated circuits and printed circuit boards.

Creation of a device or instrument involves many stages, right from inception of the idea to getting the final product in hand. Many of these devices have been made simpler by using the free or licensed EDA tools available. Inclusion of such tools for practical will be added advantage for students to perform more hands on practice enhancing their skill.

### G2. Product Development

Electronic Products is one of the most dynamic industries today. Products that were a distant dream few years ago are now changing rapidly with endless innovations getting added to them. Launching of new products in the market and gaining market share is the main strategy of every player in the industry.

Approach to create unique innovate designs include:

- Market research of end customer expectation and requirement
- Study of existing competition, if any
- Focus on end user experience
- Create a world class product design to make the product differentiate in the market

Syllabus doesn't take these factors into consideration, which is the need of hour.

### G3. Advances in Network Communication

As the world continues to move, so does the advancement of technology. Every year sheds light on improvements to yesterday's devices and new inventions appearing on the horizon. At the center of it all is a desire to speed up communication across the globe, with the intention of making inconveniences a thing of the past. Latest technologies should be part of syllabus as students what they learn theoretically n what industry is having there is a huge gap. To cope up with such gap units on advances in communications must be introduced

### G4. Projects on contemporary issues / multidisciplinary issues

Students should be encouraged to focus on getting real time projects viz. social or Industrial problems which will be solved through multidisciplinary/multifunctional approach. The need of society/ industry be indentified and put into problem solving approach from Second year onwards. Survey and literature review should be carried out at SE & TE level only, Design approach should be at TE & BE level.

| Name of Subject: | | BBC |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | X.25 and Frame relay | SS-7 protocol Archetecture |
| 2 | ISDN overview | Line codes and Modems |
| 3 | ISDN Interface and Functions | ARQ strategies |
| 4 | B-ISDN Architecture and Services | Introduction to Queuing model |
| 6 | ATM switching | CSMA |
| **Name of Subject:** | | **ES** |
| **Unit No.** | **Title of Unit** | **Gap in Curriculum** |
| 1 | Introduction to ES | Cost estimation hw and sw |
| 2 | Interfacing and programming | Hw sw codesign |
| 3 | Real Time Operating System | Case study Linux |
| 4 | Case study of ES | Fault tolerant sytems |
| **Name of Subject:** | | **SC** |
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Introduction to satellite communications | Orbit Mechanism |
| **Name of Subject:** | | **VLSI DESIGN** |
| **Unit No.** | **Title of Unit** | **Gap in Curriculum** |
| 1 | CMOS Design | CMOS logic families including static, dynamic and dual rail logic |
| 2 | Introduction to EDA tool and VHDL programming | VLSI Design: Floor planning, Integrated circuit layout; design rules, parasites. |
| **Name of Subject:** | | **CCN** |
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Data Communication | Physical Layer & Media |
| 2 | LAN Standards | Wireless Protocol 802.11, bluetooth |
| 3 | Network Security | Introduction, Encryption, Decription, Digital Signature, |

Class-TE

| Name of Subject: | | DSP |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Introduction | Parametric and non-parametric spectral estimation. Introduction to multirate signal processing. Application of DSP to Speech and Radar signal processing. |
| 2 | Discrete Fourier Transform | Introduction to signal space, orthogonal basis and signal representation using unitary transforms like DFT,DCT, Haar and Walsh Hadmard transform, |
| 3 | Linear Filtering Method Based on DFT | Application of transform in speech, audio, image |
| | | and video coding, Karhunen-Loeve Transform, DCT, JPEG and |
| | | MPEG coding standards |
| 4 | FFT Algorithm | optimum approximations of FIR filters |
| 5 | IIR Filter Design: | Adaptive Wiener filter and LMS algorithm; Applications of adaptive filtering to echo cancellation and equalization |

| Name of Subject: | | MCOM |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Introduction | Wireless network topologies, infrastructure and ad-hoc networks |
| 2 | Mobile Radio Propagation | impulse response model of multipath channel, simulation model |
| 3 | Multiple access Technique in Wireless Communications | GMSK; OQPSK and p/4 QPSK; |
| 4 | GSM | Access techniques for WLAN, Bluetooth and mobile data networks; |
| | | Quality of service enabled wireless access, access methods for integrated services. |
| 5 | CDMA digital cellular standard (IS-95) | Mobile IP, power saving mechanisms, energy efficient designs; Security in wireless networks. |
| 6 | IMT – 2000 | Wireless local loop technologies. |

| Name of Subject: | | EMER |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Electrostatic Field I | Plane Waves: Wave equation in an isotropic homogeneous medium and its solution, phasor notation, polarization of waves, reflection and refraction of plane waves at plane boundaries, Poynting vector. |
| 2 | Electrostatic Field I | Transmission Lines: Time-domain analysis of transmission lines; Bounce diagrams; Frequency-domain analysis of transmission lines; Standing waves; Smith chart; Transmission line matching: Single and double-stub matching, quarter-wave transformers |
| 3 | Magnetostatic Field I | Cavity Resonators: Elecromagnetic fields in rectangular and cylindrical resonators, degeneracy of modes, quality factor |
| 4 | Maxwells Equation | Solution of Laplace's Equation and Poisson's Equation in 1-D. |

| Name of Subject: | | MCA |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | The 8051 Architecture and Instructions | Overview of 8096 16 bit microcontroller |
| 2 | Interfacing of following with microcontroller | Interfacing of 7 segment display |

| Name of Subject: | | PDC |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Pulse Code Modulation Techniques | Low bit rate coding, and compression standards for speech signals; Emerging digital & communication techniques including video compression and HDTV. |
| 2 | Optimum receiver for digital Modulation | Concept of probability, random variable and its characterization, probability density functions, transformations of random variables, statistical averages. |

| Name of Subject: | | RME |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Rectangular waveguide | Study of excitation techniques for waveguides |
| 2 | Microwave Components | Study of two hole directional coupler |
| 3 | Microwave Solid State Devices | Study of Schottky barrier diode |
| 4 | Microwave Measurements | Study of multicavity klystron amplifier |
| 5 | Microwave Tubes | measurement of Q of Cavity resonator |
| 6 | Radar Fundamentals | Modern Techniques used in RADAR |

| Name of Subject: | | OC |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Introduction | More details about ray theory |
| 2 | Transmission Characteristics of optical fiber | Dispersion Details |
| 3 | Optical fibers & joints | More Types of glass |
| 4 | Optical Sources (LASER) | LASER Types |
| 5 | Fibre Optics Communication System | Instruments in system |
| 6 | Optical Fiber Measurements | Meaurement of more losses |

| Name of Subject: | | AC |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Introduction | Introduction to modern communication systems |
| 2 | Amplitude modulation Demodulation | Effect of noise on AM |
| 3 | Frequency modulation demodulation | PLL and its applications in carrier acquisition and FM demodulation; |

| Name of Subject: | | DS |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Stack and Queue | Abstract data types, sequential and linked implementations, exception handling in classes, towers of Hanoi, wire routing in a circuit, finding path in a maze, simulation of queuing systems, equivalence problem. |
| 2 | Linked List | Comparison of insertion, deletion and search operations for sequential and linked lists, list and chain classes, exception and iterator classes for lists, linked lists through simulated pointers, lists in STL, skip lists, applications of lists in bin sort, radix sort, sparse tables. |
| 3 | Tree | Search efficiency, importance of balancing, AVL trees, searching insertion and deletions in AVL trees, red-black trees, comparison with AVL trees, search insert and delete operations, m-way search trees, B-trees, search insert and delete operations, height of B-tree, 2-3 trees, sets and multisets in STL, implementation– adjacency matrix and linked adjacency chains. |
| 4 | Searching Techniques | uses of hash tables in text compression, LZW algorithm, |
| 5 | Sorting Techniques | Heaps as priority queues, heap implementation, insertion and deletion operations, heap sort, heaps in Huffman coding, leftist trees, tournament trees, use of winner trees in merge sort as an external sorting algorithm, bin packing. |

| Name of Subject: | | DS |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Codes and Simplification technique | Quine – Mc Cluskey method;Prime implicants, |
| 2 | Combinational Circuit Design | Ripple carry. . |
| 3 | Counters and State machines | Designing state machine using ASM charts. |
| 4 | PLDs | Sequential PLDs and their applications; |
| 5 | ntroduction to VHDL | Introduction to FPGA |

| Name of Subject: | | ECAD-I |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | PN Junction Diode | Schottkey Barrier Diode |
| 2 | Diode Application | Detector Circuit |
| 3 | Filter | Transient Protection Circuit |
| 4 | Design of Unregulated Power Supply | Analysis of Shunt Regulator using Zener Diode, Voltage Magnifier |
| 5 | Bipolar Junction Transistor | PNP Transistor |
| 6 | Field Effect Transistor | Inverter Using MOSFET |

| Name of Subject: | | ECAD-II |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Multistage Transistor Amplifiers | BJT cascode amplifiers |
| 2 | Feed Back Amplifier | Stability in feedback amplifiers |
| 3 | Sinusoidal Oscillators | Ring Oscillator |
| 4 | IC Regulator | IC 723 Voltage Regulator |
| 5 | Multivibrators using Transistors | Emitter coupled Aastable Multivibrator |

| Name of Subject: | | M-III |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Linear differential equations with constant coefficients | Method of variation of parameters,Cauchy's And Euler's equations, Initial and boundary value Problems |
| 2 | Statistics | Moments and moment generating functions. Negative binomial, Geometric.(Continuous): Uniform, Exponential, Gamma, and Beta, Lognormal. Marginal, conditional distribution. Statistical independence, product moment. |
| 3 | probability | Sampling theorems, Conditional probability, Random sample, law of large numbers, central limit theorem Estimation: maximum likelihood estimation, unbiasedness and efficiency, interval estimation for normal population with normal, t,$\chi^2$ Distribution. |
| 4 | Numerical Methods: | Solutions of non-linear algebraic equations, single and multi-step methods For differential equations. |

| Name of Subject: | | NTA |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Circuit Analysis and Network Theorem | Basic nodal and mesh analysis, Introduction to SPICE in circuit analysis. |
| 2 | Transient Response | Concept of Source free RL and RC circuits The phasor concept, sinusoidal steady state analysis; |

| Name of Subject: | | SS |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Signal and systems | No Gap |
| 2 | Contineous time system | power spectral density, signal bandwidth |
| 3 | Discrete time systems | Relationship of Laplace and Fourier transforms; |

| Name of Subject: | | LIC |
|---|---|---|
| Unit No. | Title of Unit | Gap in Curriculum |
| 1 | Frequency Response of OP-AMP | Dominant Pole and Pole zero compensation |
| 2 | General linear applications of OP-AMP | Analog computers |
| 3 | OP-AMP as Comparators | Application of comparator as battery charger control circuit |

# Action Taken (New Content / Topic Added) in the Curriculum

## Punyashlok Ahilyadevi Holkar Solapur University, Solapur

### Faculty of Science & Technology

**(Revised from 2018-19)**

*C.B.C.S. Structure of S.Y. B.Tech. Electronics & Telecommunication Engineering W.E.F. 2019-20*

*Semester I*

| Course Code | Theory Course Name | Hrs./week | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | | ISE | ESE | ICA | Total |
| ET211 | Engineering Mathematics – III | 3 | 1 | -- | 4 | 30 | 70 | 25 | 125 |
| ET212 | Electronic Circuit Analysis and Design | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET213 | Network Theory and Analysis | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET214 | Digital Techniques | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET215 | Analog Communication | 3 | -- | -- | 3 | 30 | 70 | 25 | 125 |
| **Sub Total** | | 18 | 1 | -- | 19 | 150 | 350 | 125 | 625 |
| ENV21 | Environmental Science | 1 | -- | -- | -- | -- | -- | -- | -- |
| Course Code | Laboratory Course Name | | | | | | | | |
| | | | | | | | ESE | | |
| | | | | | | | POE | OE | |
| ET212 | Electronic Circuit Analysis and Design | -- | -- | 2 | 1 | -- | 50* | -- | -- | 50 |
| ET213 | Network Theory and Analysis | -- | -- | 2 | 1 | -- | -- | -- | -- | -- |
| ET214 | Digital Techniques | -- | -- | 2 | 1 | -- | 50 | -- | -- | 50 |
| ET215 | Analog Communication | -- | -- | 2 | 1 | -- | 25 | -- | -- | 25 |
| E216 | Electronics Software Lab-I | -- | 1 | 2 | 2 | -- | -- | -- | 50 | 50 |
| **Sub Total** | | -- | 1 | 10 | 6 | -- | 125 | | 50 | 175 |
| **Grand Total** | | **19** | **2** | **10** | **25** | **150** | **475** | | **175** | **800** |

Abbreviations: L- Lectures, P –Practical, T- Tutorial, ISE- In Semester Exam, ESE-End Semester Exam, OE-Oral Examination, POE- Practical Oral Examination, ICA- Internal Continuous Assessment

**Note: ***

- Practical and Oral Examination of Electronics Circuit Analysis and Design includes some of the practical from subject of Network Theory and Analysis

## Punyashlok Ahilyadevi Holkar Solapur University, Solapur

### Faculty of Science & Technology

**(Revised from 2018-19)**

*C.B.C.S. Structure of S.Y. B. Tech. Electronics & Telecommunication Engineering W.E.F. 2019-20*

*Semester II*

| Course Code | Theory Course Name | Hrs./week | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | | ISE | ESE | ICA | Total |
| ET221 | Control System | 3 | -- | -- | 3 | 30 | 70 | 25 | 125 |
| ET222 | Analog Integrated Circuits | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET223 | Principles of Digital Communication | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET224 | Signals and Systems | 3 | 1 | -- | 4 | 30 | 70 | 25 | 125 |
| ET225 | Data Structures | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| **Sub Total** | | 18 | 1 | -- | 19 | 150 | 350 | 125 | 625 |
| ENV22 | Environmental Science | 1 | -- | -- | -- | -- | -- | -- | -- |
| Course Code | Laboratory Course Name | | | | | | | | |
| | | | | | | | ESE | | |
| | | | | | | | POE | OE | |
| ET221 | Control System | -- | -- | 2 | 1 | -- | -- | -- | -- | -- |
| ET222 | Analog Integrated Circuits | -- | -- | 2 | 1 | -- | 50 | -- | -- | 50 |
| ET223 | Principles of Digital Communication | -- | -- | 2 | 1 | -- | 25 | -- | -- | 25 |
| ET225 | Data Structures | -- | -- | 2 | 1 | -- | 50 | -- | -- | 50 |
| ET226 | Electronic Software Lab-II | -- | 1 | 2 | 2 | -- | -- | -- | 50 | 50 |
| **Sub Total** | | -- | 1 | 10 | 6 | -- | 125 | | 50 | 175 |
| **Grand Total** | | **19** | **2** | **10** | **25** | **150** | **475** | | **175** | **800** |

Abbreviations: L- Lectures, P -Practical, T- Tutorial, ISE- In Semester Exam, ESE - End Semester Exam, OE-Oral Examination, POE- Practical Oral Examination, ICA- Internal Continuous Assessment

# Punyashlok Ahilyadevi Holkar Solapur University, Solapur

**S.Y. B.Tech (Electronics and Telecommunication Engineering) Part-I**

**ET211-Engineering Mathematics-III**

| **Teaching Scheme:** | **Examination Scheme:** |
|---|---|
| Lecture- 3 Hours / week, 3 Credits | ESE- 70 Marks |
| Tutorial - 1 Hours / week, 1 Credit | ISE - 30 Marks |
| | ICA- 25 Marks |

**Course Objectives:**

1. To introduce to student method of solving higher order linear differential equations
2. To introduce to student Fourier series.
3. To introduce to student various probability distributions
4. To introduce to student Laplace and inverse Laplace transforms and their properties.
5. To make student understand Z transform and its properties
6. To introduce to student Fourier Transform.

**Course Outcomes:**

1. Student can solve higher order linear differential equation related to electrical circuit theory
2. Student can express a function in terms of sine's and cosines components so as to model simple periodic functions
3. Student can find the relation between two variables for the given data using regression and can explain various probability distribution functions
4. Student can apply Laplace and inverse Laplace transforms for analysis of simple electrical circuits.
5. Student can solve problems on Z transform and explain its properties
6. Student can solve the problems of Fourier integral and Fourier transform

**Course Prerequisite:**

Fundamentals of trigonometry, method of finding roots of algebraic equations, differentiation, integration, partial fraction, sum of sequence and methods of solving definite integrations, basics of statistics and probability theory

**SECTION – I**

**Unit 1: Higher order linear differential equations and applications [07 Hrs]**

Basic definition, differential operator, complimentary functions, particular integral, Shortcu methods for standard functions like $e^{ax}$, sin(ax+ b), cos(ax+b), xm , $e^{ax}V$ and xV , particular integral by general method (without method of variation of parameters) for other functions. Electrical Engineering Applications

**Unit 2 : Fourier series [06 Hrs]**

Introduction, Definition, Euler's formula, Fourier series of periodic functions with period 2□ and 2L, Dirichlet's theorem (only statement), even and odd functions, half range sine and cosine series.

**Unit 3: Statistics and Probability:** **[08 Hrs]**

Coefficient of correlation by Karl Pearson's method and lines of regression of bivariate data. Random variable, discrete and continuous random variable, Probability density function , Binomial, Poisson and Normal distributions.

**SECTION II**

**Unit 4:Laplace transform:** **[09Hr]**

Definition, Laplace transform of standard functions, properties- first shifting, change of scale, multiplication of power t and division by t, Laplace transform of derivative and integral, Laplace transform of periodic functions, unit step functions and unit impulse functions.

Definition, Inverse Laplace transform of standard functions, Properties of inverse Laplace transforms- linear property, first shifting theorem, partial fraction, inverse transform of logarithmic & inverse trigonometric functions and convolution theorem, solution of differential equations by Laplace transform.

**Unit 5 Z-Transform:** **[06Hr]**

Introduction, Z-Transform of standard sequence, properties of Z-transform – linearity, change of scale, shifting property, multiplication by k, division by k, inverse Z-transform –power series method, partial fraction method.

**Unit 6: Fourier Transform:** **[06Hr]**

Fourier integral, Fourier sine and cosine integral, Complex form of Fourier integral. Fourier Transform, Fourier sine and cosine transform and Inverse transform.

- Internal Continuous Assessment (ICA):
  ICA shall consist of minimum six to eight assignments based on entire curriculum
- Text books:
  1. A textbook of Applied Mathematics Vol. II and Vol. III, J.N. and P.N. Wartikar, Vidyarthi Grah Prakashan, Pune.
  2. Higher Engineering Mathematics, Dr.B.S.Grewal, Khanna Publications, Delhi.
  3. Numerical Methods, Dr.B.S.Grewal, Khanna Publications, Delhi
  4. A Textbook of Applied Mathematics, N.P. Bali, Ashok Saxena and N.Ch. S.N. Iyengar, Laxmi Publications, Delhi.
  5. Advanced Engineering Mathematics, Kreyzig-John Wiley & SMS, New York.
- Reference Books:
  1. Advanced Engineering Mathematics, Peter O'Neil , Cengage Learning.
  2. Engineering Mathematics, Srimanta Pal, Subodh Chandra Bhunia, Oxford University Press

# Punyashlok Ahilyadevi Holkar Solapur University, Solapur

**S.Y. B.Tech (Electronics and Telecommunication Engineering) Part-I**

## ET212: Electronic Circuit Analysis And Design

**Teaching Scheme:**
Lecture : 4 Hrs/Week
Practical :2Hrs/Week

**Examination Scheme:**
ISE:30 Marks
ESE:70 Marks
ICA:25 Marks
POE: 50Marks

- **Course Objectives:**

1. To introduce to student working of FET and MOSFET and its applications.
2. To make student analyze transistorized multistage amplifier.
3. To make student design and analyze feedback amplifiers.
4. To make student analyze power amplifiers.
5. To make student design and analyze oscillators.

- **Course Outcomes: At the end of the course;**

1. Students will be able to analyze the working of JFET, MOSFET and applications of these devices.
2. Student can analyze multistage amplifier.
3. Student can analyze and design feedback amplifier.
4. Student can analyze power amplifiers.
5. Student can analyze and design oscillators.

### SECTION– I

**Unit 1: JFET:** **[09Hrs]**

Introduction, Construction and working, JFET characteristics (Transfer and Drain), Schockley'sequation, JFET biasing and DC analysis, JFET as amplifier and its configurations (CS/CD/CG) and comparison, CS amplifier analysis. Designing of JFET CS Amplifier.

**Unit 2: MOSFET:** **[10Hrs]**

Two terminal MOS structure, EMOSFET-coustruction, symbols, EMOSFET V-I characteristics, additional MOSFET structures (DMOSFET and CMOS), V-I characteristics of EMOSFET (finite output resistance, body effect, break down effect, temperature effect, short channel effects), MOSFET biasing and DC circuit analysis, MOSFET small signal amplifier (CS configuration).

**Unit 3: Multistage Transistor Amplifiers:** **[05Hrs]**

Need of cascading, different coupling schemes with frequency response, h-model of BJT, Analysis of two stage RC coupled Amplifier, square wave testing for RC coupled amplifiers. Designing of two stage RC coupled Amplifier

**SECTION-II**

**Unit 4: Feedback Amplifiers:** **[08Hrs]**

Classification of amplifiers, feedback concept, General characteristics of negative feedback amplifiers, Feedback Topologies and analysis (with numerical examples), Effect of negative feedback on stability, Band width, noise, distortion, i/p resistance and o/p resistance. Darlington pair amplifier and its analysis.

**Unit 5: Oscillators:** **[08Hrs]**

Oscillator startup mechanism, Barkhausen's criteria , sinusoidal oscillators- RC phase shift Oscillator, Wein bridge oscillator, Colppits oscillator, Hartley oscillator Derivations for frequency of oscillations of above oscillators. Crystal oscillator- Piezo electric effect, electrical equivalent circuit of a crystal, UJT Relaxation oscillator. Designing of RC phase shift oscillator.

**Unit 6: Power Amplifiers:** **[08Hrs]**

Types (Class A, B, AB and C) and their comparison, crossover distortion, Second Harmonic distortion, Analysis of Class A, Class B and Class AB amplifiers, complementary symmetry push pull amplifier, Introduction to Class C amplifiers. Design of Class A& Class-B amplifier.

**Note:** For selection of components in design **Data Sheet** should be referred.

**Internal Continuous Assessment** (ICA):

**Experiments:** -

Minimum eight experiments from the following.

1. Frequency response of two stage RC coupled CE amplifier.
2. Effect of negative feedback on amplifiers.
3. V-I Characteristics of MOSFET
4. RC Phase shift oscillator.
5. Application of MOSFET as a switch.
6. V-I characteristics of JFET.
7. Implement JFET CS Amplifier and calculate Av, Ri and Ro.
8. Analysis of Class A power amplifier
9. Analysis Class B push pull Amplifier
10. Simulate two stage RC coupled CE amplifier with feedback
11. Simulate LC oscillator
12. Simulate MOSFET amplifier

- **Text books:**

1. Electronic Devices and Circuits Allen Mottershed PHI Publication.
2. Electronic Devices and Circuits- J.B.Gupta 3rd Edition KATSON Books.
3. A Practical approach to Electronic Circuit Design -D S Mantri& G P Jain,Nikita Publication
4. Electronics Devices and Circuits-S. Shalivahanan,N. SureshKumar, TMH Publication.

- **Reference Books:**

1. Electronic Devices Floyd Pearson Education
2. Microelectronics : Digital and Analog Circuits and Systems- Jacob Millman
3. Electronic Devices and Circuit Theory Boylestad Pearson Education
4. "Microelectronics Circuit" by Sedra Smith, Oxford University Press, 4thEdition.

# Punyashlok Ahilyadevi Holkar Solapur University, Solapur

**S.Y. B.Tech (Electronics and Telecommunication Engineering) Part-I**

**ET214: Digital Techniques**

**Teaching Scheme:**
Lecture : 4 Hrs/Week
Practical : 2 Hrs/Week

**Examination Scheme:**
ISE:30 Marks
ESE:70 Marks
ICA:25 Marks
POE: 50Marks

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- **Course Objectives:**

1. To understand principles, characteristics and operations of combinational and sequentialLogic circuits.
2. To develop design and implementation skills of combinational logic circuits.
3. To design, implement and analyze, asynchronous and synchronous sequential circuitsusing flip flops.
4. To design and verify VHDL modules for combinational logic circuits.

- **Course Outcomes: At the end of the course;**

1. Students will be able to design and realize combinational logic circuits using logic gates,MSI circuits and PLDs.
2. Students will be able to design, implement and analyze asynchronous andsynchronous Sequential circuits using flip flops.
3. Students will be able to apply digital concepts in industrial applications.

## SECTION– I

**Unit 1: Codes and Simplification technique:** **[05Hrs]**
Codes- BCD and Gray codes, Seven segment, Principles of combinational logic: Standard representation for Logical Function, canonical forms, don't care conditions, minimization techniques (using K-map up to 4 variables only), static and dynamic Hazards.

**Unit 2: Combinational Circuit Design:** **[09Hrs]**
Adder, Subtractor, Code converters (binary to gray and gray to binary, BCD to 7 segment), IC 7447,MUX, DEMUX, encoder, priority encoder, decoder, Multiplexer (Tree) and Demultiplexer(Tree), magnitude comparator, adder with look ahead carry generator, Parallel adder(IC 7483), parity generator and checker.

**Unit 3: Logic Families and flip flop:** **[10Hrs]**
Logic Family-Introduction to logic families, Characteristics/Parameters of Digital ICs. Flip flop NAND Latch, Flip-Flop: D, SR, JK and T (Characteristic table, excitation table and characteristic equation), Race around condition, Master Slave J-K flip-flop, flip-flop conversion.

## SECTION-II

**Unit 4: Registers:** **[07Hrs]**
Asynchronous and synchronous sequential circuits, Shift register (modes of operation), 4-bit bidirectional shift register, universal shift registers, Ring counter, Johnson counter, IC7495.

**Unit 5: Counters and State machines:** **[10Hrs]**

Design of ripple counter using flip-flop, 4 bit up/down counter, mod –N counter, Design of Synchronous counter using Flip-Flop, 4 bit up/down counter, mod –N counter, IC 7490, Moore and Mealy machines, representation techniques, state diagram, state assignment, state reduction, implementation using flip flops.

**Unit 6: PLDs and VHDL:** **[07Hrs]**

PLDs- PROM, PAL and PLA Architecture, CPLD, Implementing combinational circuits using PLDs.VHDL -Library, Entity, Architecture, VHDL code for adder, Subtractor and comparator.

**Internal Continuous Assessment (ICA):**

**Experiments: -**

Minimum Ten experiments from the following.

1. Implementation of SOP and POS logical functions using universal gates.
2. Implementation of full adder, and full subtractor using logic gates.
3. Code conversion using logic gates or logic ICs: BCD to Binary, Binary to Gray, Gray to Binary.
4. Design and implementation of 2 bit digital comparator using logic gates and functional Verification of 4 bit digital comparator using IC 7485.
5. Design and implementation of 1 decimal digit BCD adder using IC 7483.
6. (i) Verification of functionality of multiplexer.
(ii) Design and implement combinational logic function using multiplexer ICs.
7. (i) Verification of functionality of decoder.
(ii) Design and implement combinational logic function using decoder IC.
8. Verification of the functionality of BCD to Seven segment decoder/driver.
9. Implement S-R, D, J-K, T flip flops using logic gates.
10. Functional verification of universal shift registers using IC 7495.
11. Design and implementation of Ring counter using shift register.
12. Design and implementation of Johnson counter using shift register.
13. Design and implementation of Pulse train generator using IC 7495.
14. Functional verification of ripple counter using IC 7490
15. Design of half adder and half Subtractor using VHDL

- **Text books:**

1. Digital Design - M. Morris Mano - Pearson Education (3rd Edition)
2. Digital Principles – Leach, Malvino, TMH (6th Edition).
3. Fundamental of Digital Circuits- Anand Kumar- Prentice Hall of India Pvt. Ltd.
4. Digital Electronics – Dr. R. S. Sedha – S. Chand Publications (3rd Revised Edition).
5. Digital System, Principles and Applications, Ronald J. Tocci, PHI
6. Circuit Design using VHDL –VolneiPedroni, PHI Publications.
7. Digital Electronics- Anil K Maini, Wiley Publication.

- **Reference Books:**

1. Digital Design Principles and Application - Wakerly – Pearson Education
2. Digital Electronics - Gothman - (PHI)
3. Digital Logic and Computer Design - Morris Mano - Pearson Education
4. The Principles of Computer hardware- Alan Clements (Low Price 2000) (Third Edition),OxfordPress.

# Punyashlok Ahilyadevi Holkar Solapur University, Solapur

**S.Y. B.Tech (Electronics and Telecommunication Engineering) Part-I**

**ET215: Analog Communication**

**Teaching Scheme:**
Lecture : 3Hrs/Week
Practical : 2 Hrs/Week

**Examination Scheme:**
ISE:30 Marks
ESE:70 Marks
ICA:25 Marks
POE: 25 Marks

- **Course Objectives:**

The students are expected to demonstrate the ability to:

1. Describe and analyze the mathematical techniques of generation, transmission and reception of amplitude modulation (AM), frequency modulation (FM) and phase modulation (PM) signals.
2. Evaluate the performance levels (Signal-to-Noise Ratio) of AM, FM and PM systems in the presence of additive white noise.
3. Convert analog signals to digital format and describe Pulse and digital Modulation techniques.

- **Course Outcomes:**

On completion of the course, student will be able to:

1. Understand and identify the fundamental concepts and various components of analog communication systems.
2. Explain signal to noise ratio, noise figure and noise temperature for single and cascaded stages in a communication system.
3. Describe analog pulse modulation techniques and digital modulation technique.
4. Develop the ability to compare and contrast the strengths and weaknesses of various communication systems.

## SECTION– I

**Unit 1: Introduction:** **[05Hrs]**

Introduction of Communication, Element of a communication systems, Base band & Carrier communication Modulation and Demodulation, Need of Modulation, Type of modulation, Type of communication Channels (Transmission line, Parallel wires, Coaxial cables, waveguides and optical fibers), Electromagnetic spectrum, Bandwidth, Concept of multiplexing (TDM and FDM), Application of communication.

**Unit 2: Noise:** **[06Hrs]**

Sources of Noise, Types of Noise, White Noise, Thermal noise, shot noise, partition noise, Low frequency or flicker noise, burst noise, avalanche noise, Signal to Noise Ratio, SNR of tandem connection, Noise Figure, Noise Temperature, Friss formula for Noise Figure, Noise Bandwidth, Behavior of Baseband systems and Amplitude modulated systems i.e.DSBSC and SSBSC in presence of noise.

**Unit 3: AM Transmission:** **[06Hrs]**

Base band & Carrier communication, Generation of AM (DSBFC) and its spectrum, Power relations applied to sinusoidal signals, DSBSC – multiplier modulator, Nonlinear generation, switching modulator, Ring modulator & its spectrum, Modulation Index. SSBSC, ISB & VSB, their generation methods & Comparison, Block Diagram of AM Transmitter and Broadcast technical standards.

**SECTION-II**

**Unit 4: AM Reception:** **[06Hrs]**

Block diagram of TRF AM Receivers, Super Heterodyne Receiver, Dual Conversion Super heterodyne Receiver, Concept of Series & Parallel resonant circuits for Bandwidth & Selectivity. Performance Characteristics: Sensitivity, Selectivity, Fidelity, Image Frequency Rejection and IFRR. Tracking, Mixers. AM Detection: Rectifier detection, Envelope detection; Demodulation of DSBSC: Synchronous detection; Demodulation of SSBSC: Envelope detection

**Unit 5: FM Transmission and Reception:** **[07Hrs]**

Mathematical analysis of FM and PM, Frequency spectrum analysis of FM, Modulation Index Bandwidth requirements, Narrow Band and wide band FM, Comparison of AM,FM and PM, Direct and indirect methods of FM generation, Need for Pre-emphasis, De-emphasis. FM detection Techniques - Slope Detector, Dual Slope Detector, Foster Seeley Discriminator, RatioDetector.

**Unit 6: Pulse Analog Modulation:** **[06Hrs]**

Sampling Theorem, Proof of Sampling Theorem, Nyquist Rate and Nyquist Interval, Sampling Techniques - Natural sampling, Flat Top Sampling, Comparison of Various Sampling Techniques, Analog Pulse Modulation/Demodulation Methods- Pulse Amplitude Modulation, Pulse Time Modulation. Introduction to Pulse Code Modulation.

**ICA : List of Experiments for Analog Communication**

Perform any eight experiments from following.

List of Practical

1. AM Generation (DSB-FC): Calculation of modulation index by graphical method, Power of AM Wave for different modulating signal.
2. Envelope Detector - Practical diode detector, Observe effect of change in RC time constant which leads to diagonal and negative clipping
3. Generation of DSB-SC & its detection
4. SSB modulator & its detection
5. Frequency modulator & demodulator, calculation of modulation index & BW of FM.
6. Study of AM & FM Spectrum: Observe Spectrum of AM & FM, Compare & comment on AM & FM spectrum.
7. Verification of Sampling Theorem, PAM Techniques, (Flat top & Natural sampling), reconstruction of original signal; Observe Aliasing Effect in frequency domain.

Following can be performed using suitable software (Any One)

8. Generate AM and FM waveform for given modulation index, signal frequency and carrier Frequency using suitable software.
9. Prove sampling Theorem. Reconstruct the analog signal from its samples. Observe aliasing effect by varying sampling frequency.

# Punyashlok Ahilyadevi Holkar Solapur University, Solapur

**S.Y. B.Tech (Electronics and Telecommunication Engineering) Part-II**

**ET221: Control Systems**

| **Teaching Scheme:** | **Examination Scheme:** |
|---|---|
| Lecture : 3 Hrs/Week | ISE:30 Marks |
| Practical : 2 Hrs/Week | ESE:70 Marks |
| | ICA:25 Marks |

- **Course Objectives:**

1. To understand concepts of various control systems.
2. To represent control system using block diagram and signal flow graph and obtain transfer function of system.
3. To obtain stability of control systems.
4. To determine Time domain analysis of control systems.
5. To obtain Frequency domain analysis of control systems.

- **Course Outcomes:**

At the end of the course, the students will be able to:

1. Analyze various control systems.
2. Obtain transfer function of systems using signal flow graph and block diagram reduction.
3. Determine stability of systems.
4. Analyze control system in time domain.
5. Analyze control system in frequency domain

## SECTION– I

**Unit 1: Introduction:** **[04Hrs]**

Types of control systems, examples of control systems: Liquid level control system, position control system, missile launching and guidance system and automatic aircraft landing system. Transfer function of closed loop system.

**Unit 2: Mathematical modeling of systems:** **[05Hrs]**

Mathematical modeling of basic mechanical elements: translational and rotational. Mathematical modeling of Electrical systems using R, L and C. Analogous system: force – voltage and Force – current analogy. Transfer function of RLC circuits.

**Unit 3: System representation and components:** **[07Hrs]**

Block diagram representation and reduction techniques, Signal Flow Graph- Construction, Mason's Gain formula. Working principle, construction, types and applications of Stepper motor and Tachogenerator.

**Unit 4: Stability analysis:** **[03Hrs]**

Concept of stability, absolute and conditional stability, relative stability, Routh – Hurwitz criterion for stability.

**SECTION-II**

**Unit 5: Time response of systems:** **[05Hrs]**

Standard test signals, time response of first order systems to step, ramp and impulse input. Step response of second order system, time domain specifications, steady state errors and error constants of type0, type1 and type2 systems.

**Unit 6: Root locus:** **[04Hrs]**

Concept of root locus, construction of root locus and stability analysis using root locus.

**Unit 7: Frequency domain analysis:** **[05Hrs]**

Frequency response specifications, co-relation between time domain and frequency domain response, Bode plot: asymptotic bode plot, stability analysis using bode plot.

**Unit 8: Compensators:** **[03Hrs]**

Need of compensator, types (Lead, Lag & Lead Lag) and their selection.

**Internal Continuous Assessment** (ICA): - Minimum Ten experiments from the following.

1. To verify potentiometer as transducer and as error detector.
2. To verify Synchro as transducer.
3. To verify Synchro as error detector.
4. To verify operation of AC position control system.
5. To verify operation of DC position control system.
6. To obtain Effect of type of feedback on control system.
7. To obtain Time response of first order system.
8. To obtain Step response of second order system using R, L and C.
9. To obtain Frequency response of second order system using R, L and C.
10. To verify liquid level control system.
11. To obtain frequency response of Lead Lag compensator.
12. To obtain Root locus using MATLAB.
13. To obtain Bode plot using MATLAB.
14. To obtain time response of second order system using MATLAB

- **Text books:**

1. Control Systems Engineering I. J. Nagrath& M Gopal New Age Publication (Fifth Edition)
2. Feedback & Control Systems. Schaum's Outline Series McGraw Hill
3. Automatic Control Systems B. C. Kuo PHI Publication
4. Control Systems Engineering, R. Anandanatrajan,P.Ramesh Babu - Scitech Publication.

- **Reference Books:**

1. Modern Control Engineering K.Ogata Pearson Education
2. Principles of Control Systems S.C. Goyal & U. A. Bakshi Technical Publication, Pune.

# Punyashlok Ahilyadevi Holkar Solapur University, Solapur

**S.Y. B.Tech (Electronics and Telecommunication Engineering) Part-II**

**ET222: Analog Integrated Circuits**

| **Teaching Scheme:** | **Examination Scheme:** |
|---|---|
| Lecture : 4Hrs/Week | ISE:30 Marks |
| Practical : 2 Hrs/Week | ESE:70 Marks |
| | ICA:25 Marks |
| | POE: 50Marks |

**Course Objectives:**

1. To make student understand principles, configurations and specifications of ideal and practical op amp
2. To make student understand frequency response of op amp
3. To make student understand linear and non linear applications of op amp
4. To enable student design active filters using op amp and analyze waveform generators
5. To introduce to student working of special Linear ICs and its applications

**Course Outcomes: At the end of the course, students will be able to:**

1. Describe fundamentals of op amp and compare characteristics of ideal and practical op amp
2. Understand and analyze frequency response of op amp
3. Build various Linear and Nonlinear applications of op amp
4. Design first order and second order filters
5. Understand and describe the concept of special ICs and its applications

## SECTION– I

**Unit 1: Fundamentals of Operational Amplifier:** **[08Hrs]**

Concept of Differential amplifier- DIBO, AC & DC analysis, opamp fundamentals- block Diagram, equivalent circuit, Transfer curve, Electrical Parameters- practical & Ideal, Open loop configurations, closed loop configurations with negative feedback- Inverting &non inverting.

**Unit 2: Practical opamp& frequency response:** **[08Hrs]**

Input offset voltage, Input bias current, Input offset current, total output offset voltage, Thermal drift, PSRR, CMRR, SR & its importance, High frequency equivalent circuit and compensation techniques.

**Unit 3: General Linear applications of Opamp:** **[08Hrs]**

Summing, scaling and averaging amplifier, adder-subtractor, Instrumentation Amplifier, V to I and I to V convertors, Op-Amp as differentiator and Integrator including study of frequency response, AC amplifier.

**SECTION-II**

**Unit 4: Non linear applications:** **[08Hrs]**

Comparator- Basic, ZCD, Schmitt trigger, window detector, sample& hold circuit, peak detector, precision rectifiers, log-antilog amplifier, clipper & clamper, Peak detector.

**Unit 5: Active filters & Oscillators:** **[08Hrs]**

Basic filter definitions, Advantages of active filters, First and second order low pass and high pass Butterworth filters, astablemultivibrator, Triangular saw tooth wave generators using Op-Amp, Oscillators- principle, Phase shift, Wien Bridge, Quadrature oscillators.

**Unit 6: Special ICS and its applications:** **[08Hrs]**

Voltage regulators- 78xx,79xx, LM317, 723,basic switching regulator IC 555 Timer- basic, astable, monostable, PLL 565- operating principle, block diagram, IC 565, Applications of PLL as frequency multiplier and FSK demodulator, IC 8038.

**Internal Continuous Assessment** (ICA): ICA should be based on minimum eight experiments from the following list of experiments.

**Experiments: -**

1. Measurement of parameters – Vio, Iio, IB etc
2. Op-Amp as Inverting and Non-inverting amplifier, Voltage follower.
3. Frequency response of Inverting and Non-inverting amplifiers.
4. Implementation of Op-Amp as adder and subtractor.
5. Op-Amp as Integrator and Differentiator.
6. Op-Amp as Schmitt trigger.
7. Op-Amp as window detector.
8. Op-Amp as peak detector.
9. Op-Amp as waveform generators (Square, triangular, Saw tooth)
10. RC oscillator.
11. Op-Amp as Precision rectifier.
12. Phase Lock Loop 565.
13. Op-Amp as Clippers and Clampers.
14. V to I convertor with grounded load.
15. Implementation of first and second order low pass Butterworth filer.
16. Implementation of first and second order high pass Butterworth filer.

**Note:** Simulate results using simulation software for at least two experiments.

- **Text books:**

1. Op-Amps and Linear Integrated Circuits, Ramakant A. Gaikwad, PHI Learning Pvt. Ltd.,Third and Fourth edition
2. Linear Integrated Circuits, D. Roy Choudhary, Shail B. Jain, New age InternationalPublishers, Third edition

- **Reference Books:**

1. Operational Amplifiers, G.B. Clayton, English Language Book Society, Second edition
2. Operational amplifiers and Linear ICS by David Bell, oxford university press, 3rd edition
3. Linear Integrated circuits by S Salivahanan, Tata McGraw hill
4. Integrated Circuits by K R Botkar, Khanna Publication

## Punyashlok Ahilyadevi Holkar Solapur University, Solapur

**S.Y. B.Tech (Electronics and Telecommunication Engineering) Part-II**

**ET223: Principles Of Digital Communication**

**Teaching Scheme:**
Lecture : 4Hrs/Week
Practical : 2 Hrs/Week

**Examination Scheme:**
ISE:30 Marks
ESE:70 Marks
ICA:25 Marks
POE: 25Marks

**Course Objectives:**

1. To make student understand the significance of information theory, entropy coding, block coding techniques in communication system.
2. To introduce student basic components of digital communication system for different pulse, binary and M-ary digital modulation schemes with their performance analysis.
3. To explain various synchronizing techniques as well as coherent and non- coherent type of receivers used for demodulation techniques.
4. To introduce the concept and significance of multichannel and multicarrier system.
5. To introduce the concept and significance of Error Control Codes.

**Course Outcomes:**

1. Student will be able to explain, solve, and evaluate problems related to information theory, entropy coding and block coding techniques.
2. Student will be able to describe uniform and non-uniform quantization technique, design block diagram level digital communication system using PCM, DPCM, ADPCM, DM, ADM, binary and M-ary ASK, FSK, PSK, DPSK, QAM, MSK techniques, compare them and calculate the bandwidth requirement for different systems using PCM techniques
3. Student will be able to explain different bit and frame synchronization methods, coherent / non-coherent types of receivers used.
4. Student will be able to explain the concept and significance of multichannel and multicarrier system.
5. Student will be able to explain the concept and significance of Error Control Codes.

## SECTION - I

**Unit 1–Random and Information Theory** **No of lectures – 08**

Introduction to information theory, average and mutual information, Entropy, Joint Entropy and conditional entropy, Rate of information, redundancy, channel capacity, Shannon's Theorem, Shannon – Hartley theorem, bandwidth, S/N trade off, entropy coding- Shannon Fano Coding, Huffman Coding

**Unit 2–Pulse Code Modulation Techniques** **No of lectures – 06**

Basic block diagram of digital communication system, Quantization – Uniform & Non uniform, Types of digital modulation system- PCM System, Differential PCM, TDM-PCM Telephone system, ADPCM, Delta Modulation – Noise in DM, ADM.

**Unit 3–Binary Digital Modulations Techniques** **No of lectures – 06**

Line Coder-Unipolar, Polar, AMI, Manchester. Binary ASK, FSK, PSK, DPSK Coherent and non-coherent Detection. Probability of error, Comparison of digital modulation schemes–Bandwidth, power requirements& Equipment complexity.

## SECTION – II

**Unit 4– M-ary Digital Modulations Techniques** **No of lectures – 06**

QPSK concept and transmitter/Receiver, M–ary concept ,Types of M-ary , M-ary differential PSK transmitter and Receiver, M-ary wideband FSK, structure of the receiver for an orthogonal (widebabd FSK) signaling scheme, QAM modulation and demodulation, Minimum shift keying transmitter and receiver.

**Unit 5–Optimum receiver for digital Modulation** **No of lectures – 06**

Matched filter receiver, Correlation receiver, Synchronization- Symbol Synchronization, Frame synchronization, Carrier recovery circuits.

**Unit 6–Multichannel and Multicarrier systems** **No of lectures – 06**

Multichannel Digital Communication in AWGN channels, multicarrier Communication System, FFT Based multicarrier system, Minimizing Peak-to-average ratio in multicarrier system.

**Unit 7–Error Control Codes** **No of lectures – 06**

Introduction to linear block code, linear block code examples, generator matrix, systematic linear block codes, Parity-check matrix, Syndrome testing, Error correction, Decoder implementation.

**Internal Continuous Assessment:**

ICA consists of Minimum 10 experiments performed out of which at least 4 experiments must be using MATLAB / Scilab)

**List of Practicals**

1. PCM
2. DPCM /ADCM
3. PCM -TDM
4. Data Formats
5. Companding
6. DM
7. ADM
8. ASK
9. FSK
10. PSK
11. DPSK
12. QPSK
13. MATLAB Based Experiment.

**Text Books:**

1. Communication System Analog & Digital - Singh &Sapre.-TMH
2. Digital Communication System Design – M.S. Roden.-PHI
3. Digital Communication -John G. Proakis- Pearson Education
4. Communication Systems (Analog and Digital) – Sanjay Sharma – Katsons

**Reference Books:**

1. Principles of Communication System – Taub & Schling-TMH
2. Digital & Analog Communication systems – K. Sam Shanmugan-Wiley
3. Digital communication Fundamentals and Applications–2nd edition by Bernard Sklar Pearson Education.
4. Contemporary Communication system using MATLAB by John G. Proakis, M AsonidSalehi, GenhardBauch.

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur S.Y. B.Tech**
**(Electronics and Telecommunication Engineering) Part-II**

**ET225: Data Structure**

**Teaching Scheme:**
Lecture : 4 Hrs/Week
Practical : 2 Hrs/Week

**Examination Scheme:**
ISE:30 Marks
ESE:70 Marks
ICA:25 Marks
POE: 50Marks

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- **Course Objectives:**

1. To impart the basic concepts of data structures and algorithms.
2. To understand concepts about searching and sorting techniques
3. To understand basic concepts about stacks, queues, lists, trees and graphs.
4. To enable them to write algorithms for solving problems with the help of fundamental data structures

- **Course Outcomes:**

Upon completion of this course, students will be able to do the following:

1. For a given algorithm student will able to analyze the algorithms to determine the time and computation complexity and justify the correctness.
2. For a given Search problem (Linear Search and Binary Search) student will able to implement it.
3. For a given problem of Stacks, Queues and linked list student will able to implement it and analyze the same to determine the time and computation complexity.
4. Student will able to write an algorithm Selection Sort, Bubble Sort, Insertion Sort, Quick Sort, Merge Sort, Heap Sort and compare their performance in term of Space and Time complexity.
5. Student will able to implement Graph search and traversal algorithms and determine the time and computation complexity.

**SECTION– I**

**Unit 1: Introduction:** **[08Hrs]**
Basic Terminologies: Elementary Data Organizations, Data Structure Operations: insertion, deletion, traversal etc.; Analysis of an Algorithm, Asymptotic Notations, Time-Space trade off. Searching: Linear Search and Binary Search Techniques and their complexity analysis.

**Unit 2: Stacks:** **[09Hrs]**
ADT Stack and its operations: Algorithms and their complexity analysis, Applications of Stacks: Expression Conversion and evaluation (converting infix to postfix expression using algorithm, evaluating postfix expression using algorithm, recursive flow chart, programs using recursive functions - factorial, Fibonacci sequence). and complexity analysis.

**Unit 3: Queues:** **[07Hrs]**
ADT queue, Types of Queue: Simple Queue, Circular Queue, Priority Queue; Operations on each types of Queues: Algorithms and their analysis.

**SECTION-II**

**Unit 4: Linked Lists:** **[9Hrs]**

Singly linked lists: Representation in memory, Algorithms of several operations: Traversing, Searching, Insertion into, Deletion from linked list; Linked representation of Stack and Queue, Header nodes, Doubly linked list: operations on it and algorithmic analysis; Circular Linked Lists: all operations their algorithms and the complexity analysis.

**Unit 5: Trees:** **[07Hrs]**

Basic Tree Terminologies, Different types of Trees: Binary Tree, Threaded Binary Tree, Binary Search Tree, AVL Tree; Tree operations on each of the trees and their algorithms with complexity analysis. Applications of Binary Trees. B Tree, B+ Tree: definitions, algorithms and analysis.

**Unit 6: Sorting and Hashing:** **[08Hrs]**

Sorting and Hashing: Objective and properties of different sorting algorithms: Selection Sort, Bubble Sort, Insertion Sort, Quick Sort, Merge Sort, Heap Sort; Performance and Comparison among all the methods, Hashing.

**Graph:** Basic Terminologies and Representations, Graph search and traversal algorithms and complexity analysis.

**Internal Continuous Assessment** (ICA):

*Students should perform minimum twelve practicals based on the following preferably conducted on Unix / Linux platform*

**Practicals: -**

Minimum twelve practicals from the following.

1. Implementation of stack using array.
2. Implementation of Queue using array.
3. Implementation of circular Queue using array.
4. Implementation of stack using Linked list.
5. Implementation of Queue using Linked list.
6. Implementation of Circular Queue using Linked list.
7. Implementation of singly Linked list.
8. Implementation of Josephus problem using Circular Linked list.
9. Find Factorial of a given no, by defining recursive function.
10. Fibonacci sequence implementation using recursive function.
11. Search element from list using linear search and Binary search method.
12. Write the program to Sort the given list using Bubble sort method
13. Write the program to Sort the given list using Selection sort method
14. Write a program to Sort the given list using Insertion sort method

- **Text books:**

1. Data Structures Using C and C++, Y.Langsam, M.J. Augenstein, A.M Tanenbaum Pearson Education Second Edition
2. Data structures using C, Rajani Jindal Umesh Publication
3. Data structures through C in Depth, S.K.Srivastava, Deepali Srivastava, BPB Publication.
4. Data Structures using C, ISRD Group, TMH
5. Data Structures- Venkatesan, Wiley Publication.

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

पुण्यश्लोक अहिल्यादेवी होळकर
सोलापूर विद्यापीठ
॥ विद्यया संपन्नता ॥

NAAC Accredited-2015
'B' Grade (CGPA 2.62)

# Name of the Faculty: Science & Technology

## CHOICE BASED CREDIT SYSTEM

## Syllabus: ELECTRONICS & TELECOMMUNICATION ENGINEERING

## Name of the Course: T.Y.B. Tech (Sem.– I & II)

**(Syllabus to be implemented from w.e.f. June 2020)**

**PUNYASHLOK AHILYADEVI HOLKAR**

**SOLAPUR UNIVERSITY, SOLAPUR**

**Faculty of Science & Technology**

*Credit System structure of T.Y. B.Tech. Electronics & Telecommunication Engineering W.E.F. 2020-21*

*Semester I*

| Course Code | Theory Course Name | Hrs./week | | | Credits | Examination Scheme | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | L | T | P | | ISE | ESE | ICA | Total |
| ET311 | Electromagnetic Field Theory | 3 | 1 | -- | 4 | 30 | 70 | 25 | 125 |
| ET312 | Digital Design & HDL | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET313 | Digital Signal Processing | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET314 | Microcontrollers and Applications | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET315 | Open Elective-I | 3 | 1 | -- | 4 | 30 | 70 | 25 | 125 |
| SLH31 | Self Learning Module-I | -- | -- | -- | 2 | -- | 50 | -- | 50 |
| **Sub Total** | | 18 | 2 | -- | 22 | 150 | 400 | 125 | 675 |
| ***Course Code*** | ***Laboratory Course Name*** | | | | | | | | |
| | | | | | | | ESE | | |
| | | | | | | | POE | OE | |
| ET312 | Digital Design & HDL | -- | -- | 2 | 1 | -- | 50 | -- | -- | 50 |
| ET313 | Digital Signal Processing | -- | -- | 2 | 1 | -- | 50 | -- | -- | 50 |
| ET314 | Microcontrollers and Applications | -- | -- | 2 | 1 | -- | 50 | -- | -- | 50 |
| ET316 | Electronic Software Lab-III | -- | 1 | 2 | 2 | -- | -- | -- | 25 | 25 |
| **Sub Total** | | -- | 1 | 8 | 5 | -- | 150 | | 25 | 175 |
| **Grand Total** | | **18** | **3** | **8** | **27** | **150** | **550** | | **150** | **850** |

Abbreviations: L- Lectures, P –Practical, T- Tutorial, ISE- In Semester Exam, ESE - End Semester Exam, OE-Oral Examination, POE- Practical Oral Examination

ICA- Internal Continuous Assessment ESE - University Examination (Theory &/ POE &/Oral examination)

**PUNYASHLOK AHILYADEVI HOLKAR**

**SOLAPUR UNIVERSITY, SOLAPUR**

**Faculty of Science & Technology**

*Credit System structure of T.Y. B.Tech. Electronics & Telecommunication Engineering* ***W.E.F. 2020-21***

*Semester II*

| *Course Code* | *Theory Course Name* | *Hrs./week* | | | *Credits* | *Examination Scheme* | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | *L* | *T* | *P* | | *ISE* | *ESE* | *ICA* | *Total* |
| ET321 | Antenna & Wave Propagation | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET322 | Embedded System | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET323 | Electronic System Design | 4 | -- | -- | 4 | 30 | 70 | 25 | 125 |
| ET324 | Advanced Mobile Communication | 3 | 1 | -- | 4 | 30 | 70 | 25 | 125 |
| ET325 | Open Elective-II | 3 | -- | -- | 3 | 30 | 70 | 25 | 125 |
| SLH32 | Self Learning Module II | -- | -- | -- | 2 | -- | 50 | -- | 50 |
| **Sub Total** | | 18 | 1 | -- | 21 | 150 | 400 | 125 | 675 |
| *Course Code* | *Laboratory Course Name* | | | | | | | | |
| | | | | | | | *ESE* | | |
| | | | | | | | *POE* | *OE* | |
| ET321 | Antenna & Wave Propagation | -- | -- | 2 | 1 | -- | -- | 25 | -- | 25 |
| ET322 | Embedded System | -- | -- | 2 | 1 | -- | 50 | -- | -- | 50 |
| ET323 | Electronic System Design | -- | -- | 2 | 1 | -- | #50 | -- | -- | 50 |
| ET325 | Open Elective-II | -- | -- | 2 | 1 | -- | -- | -- | -- | -- |
| ET326 | Mini Hardware Project | -- | -- | 2 | 1 | -- | -- | -- | 50 | 50 |
| **Sub Total** | | -- | -- | 10 | 5 | -- | 125 | | 50 | 175 |
| **Grand Total** | | **18** | **1** | **10** | **26** | **150** | **525** | | **175** | **850** |

Abbreviations: L- Lectures, P –Practical, T- Tutorial, ISE- In Semester Exam, ESE - End Semester Exam, OE-Oral Examination, POE- Practical Oral Examination

ICA- Internal Continuous Assessment ESE - University Examination (Theory &/ POE &/Oral examination)

***Note*** - # Practical and Oral Examination of Electronics System Design is combined with Mini Hardware Project.

7. ICA assessment shall be a continuous process based on student's performance in – class tests, assignments, homework, subject seminars, quizzes, and laboratory books and their interaction and attendance for theory and lab sessions as applicable.
8. Open Elective I & II shall be common and open for the students of the branches – Electronics Engineering, Electronics & Telecommunication Engineering and Electrical Engineering. Students of these branches can take any of these Open Electives. Syllabus and university examination question paper will be same for all these branches.

**List of Open Electives -**

| Sr. | Branch Offering Elective | Open Elective I | Open Elective II |
|---|---|---|---|
| 1. | Electronics &Telecommunication Engineering | 1. Business Ethics<br>2. Managerial Economics | 1. Optical Communication<br>2. Sensors & Applications |
| 2. | Electronics Engineering | Information Technology & Management | Operating Systems |
| 3. | Electrical Engineering | Hybrid Electric Vehicle Design | Advanced Control System |

**Self Learning Module II courses -**

1. Computer Organization
2. Renewable Energy Systems
3. Soft Computing
4. NPTEL Courses

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T. Y. B.Tech (Electronics& Telecommunication Engineering)**
**Semester-I**

## ET311: ELECTROMAGNETIC FIELD THEORY

**Teaching Scheme:**
**Lectures – 3 Hours/week, 3 Credits**
**Tutorial – 1 Hour/week, 1 Credit**

**Examination Scheme:**
**ESE – 70 Marks**
**ISE – 30 Marks**
**ICA- 25 Marks**

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This course introduces electromagnetic field theory which deals with electric and magnetic field vectors. The course also introduces theoretical and analytical aspects of electromagnetic field, electromagnetic wave propagation and transmission lines.

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**Course Prerequisite:**
Student shall have knowledge Electromagnetics.

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**Course Objectives:**
1. To learn basic coordinate system, significance of divergence, gradient, curl and its applications to EM Waves.
2. To familiarize with the different concepts of electrostatic and magneto static fields. To aware students about boundary conditions to different media.
3. To expose the students to the ideas of EM waves and describe the Maxwell's equations.
4. To derive transmission line equations and parameters.
5. To determine transmission line parameters.

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**Course Outcomes:**
At the end of this course, Students will be able to,
1. Define and recognize different co-ordinate systems and apply divergence, gradient, curl to EM waves.
2. Derive the laws of electrostatic, magneto static fields and electromagnetic wave equation.
3. Apply boundary conditions to different media for wave propagation and Maxwell's equations for analysis of wave propagation.
4. Derive transmission line equations, parameters.
5. Apply knowledge of Smith chart to determine transmission line parameters.

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## Section I

**Unit 1: Vector calculus** (04)

Scalars and vectors, vector algebra, coordinate system, differential length, surface and volume, point and vector transformations.

**Unit 2: Electrostatics** (08)

Coulomb's law & electric field intensity, electric field intensity due to distributed charges, flux density, Del operator, Gauss's law and its applications, divergence theorem, electrostatic potential, potential gradient, electric dipole, electrostatic energy density, boundary conditions for electrostatic field.

**Unit 3: Static magnetic field** (08)

Biot Savart's law, Ampere's circuital law and its applications, Stroke's theorem, magnetic flux density & vector magnetic potential, current carrying conductors in magnetic fields, torque on loop, energy stored in magnetic field, boundary condition for magneto static field.

## Section II

**Unit 4: Maxwell's equations** (07)

Continuity equation for static conditions, displacement current and current density, Maxwell's equations in integral form and point form, Maxwell's equations for static case, time varying field, harmonically varying field.

**Unit 5: Electromagnetic wave propagation** (06)

Wave propagation in dielectric & conducting media, modification in wave equations for sinusoidal time variations, propagation in good conductor, skin effect, Poynting theorem, power flow in uniform plane wave

**Unit 6: Transmission lines** (07)

Transmission line sections as circuit elements, Transmission line equations using field theory and circuit theory, transmission line primary constant (R,L,C,G) and secondary ($Z_0$, $\gamma$) constant , the terminated uniform transmission line, reflection coefficient, transmission coefficient, VSWR, Impedance Transformation on Loss-less and Low loss Transmission line, Smith Chart and solution of transmission line problems using Smith Chart,.

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T. Y. B.Tech (Electronics& Telecommunication Engineering)**
**Semester-I**
**ET312 : DIGITAL DESIGN & HDL**

| **Teaching Scheme:** | **Examination Scheme:** |
|---|---|
| **Lectures– 4 Hours/week, 4 Credits** | **ESE – 70 Marks** |
| **Practical– 2 Hour/week, 1 Credit** | **ISE – 30 Marks** |
| | **ICA- 25 Marks** |
| | **POE- 50 Marks** |

This course introduces how to design, simulate and test digital logic circuits using hardware description languages (HDL) VHDL and Verilog HDL. It also describes the CPLD, FPGA and ASIC architectures used to implement the digital logic circuits.

**Course Prerequisite:**
Student shall have knowledge of Digital components, combinational and sequential logic circuit design.

**Course Objectives:**
1. To make student learn EDA Tools for VHDL and Verilog programming and simulation.
2. To enable student to design HDL modules for combinational logic circuits.
3. To enable student to design VHDL modules for sequential logic circuits.
4. To acquaint students to CPLD and FPGA architecture, ASIC, SOC and fault testing of combinational and sequential circuits.

**Course Outcomes:**
At the end of this course, Students will be able to,
1. Explain different syntax of HDL language.
2. Design and analyze combinational logic circuits using VHDL and Verilog.
3. Design and analyze sequential logic circuits using VHDL.
4. Describe architecture and internal components of CPLD, FPGA, ASIC and SOC and compare them.
5. Explain different testing methods for combinational Logic, sequential logic, IC and write test bench for simple combinational circuits.

## Section I

**Unit 1: Introduction to EDA tool and VHDL programming** (10)

About VHDL, Design Flow, EDA tools, Library declaration, entity, architecture, data types, operators, signals, variables, constants, attributes, concurrent code, sequential code, delays, architecture modeling, components, generate, Libraries, IEEE standard logic, packages, generic, functions, procedures, operator overloading, assert.

**Unit 2 : VHDL modules for combinational and sequential logic design.** (08)
Half & full Adder and Subtractor, multiplexer, demultiplexer, encoder, decoder, comparator, 4-bit adder, array multiplier, latches, flip flops, counter (Synchronous and asynchronous), shift register, static RAM, ROM.

**Unit 3 : Verilog modules for combinational logic design.** (06)
Introduction to Verilog HDL, Structure of Verilog module, Types of models, Data types, Operators, HDL Implementation of Half Adder, Full Adder, Half subtractor, Full subtractor, encoder, decoder, multiplexer, demultiplexer, comparator.

## Section II

**Unit 4 : State Machines** (08)
State machine using Moore and Mealy model, VHDL model using state machine for sequence detector, Traffic light controller, coffee vending machine, multiplier using ADD and SHIFT method.

**Unit 5 : Testing of Logic Circuits** (08)
Testing combinational and sequential logic, Boundary scan, Built In Self-test, Test bench for Combinational design for binary adder, comparator, encoder, decoder, multiplexer and demultiplexer.

**Unit 6 : Architecture of Commercial Devices:** (08)
CPLD Architecture, Xilinx XC9500, Altera Max7000, FPGA organization and architecture, Altera Flex 10k, ASIC and System on Chip architecture.

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- **Internal Continuous Assessment (ICA):**

ICA shall be based on minimum ten programs based on above curriculum using suitable EDA tools.

**Suggested List of Practicals:**

1. Design of half adder and full adder using VHD and Verilog.
2. Design of 4 bit adder using structural style modeling using VHD and Verilog.
3. Design of carry look ahead adder using VHDL.
4. Design of code converters using VHDL or Verilog.
5. Design of comparators using VHDL or Verilog
6. Design of encoder and decoder using VHDL or Verilog
7. Design of multiplexer and demultiplexer using VHDL or Verilog
8. Design of flip flops using VHDL.
9. Design of universal shift register using VHDL.
10. Design of asynchronous and synchronous counters using VHDL.
11. Design of sequence detector using state machine using VHDL.
12. Design of Traffic light controller using state machine editor using VHDL.

13. Frequency multipliers and dividers using VHDL.
14. Design of ALU using VHDL.
15. Design of RAM with read write control using VHDL.
16. Writing test bench for adder, encoder using VHDL.
17. Implement any VHDL module on CPLD or FPGA

- **Text books:**

1. Circuit Design and Simulation with VHDL, Volnei A. Pedroni, PHI
2. Fundamentals of Digital logic Design with VHDL, Brown,Vranesic – McGraw-Hill ($2^{nd}$edition).
3. Digital Systems Design using VHDL, Charles H. Roth, Lizy Kurian John- Cengage Learning, Second Edition
4. Digital Systems Design using Verilog, Charles H. Roth, Lizy Kurian John, Byeong Kil Lee- Cengage Learning
5. HDL Programming VHDL and Verilog, Nazeih M. Botros, Dreamtech Press.

- **Reference Books:**

1. Digital Design Principles and Practices, John F. Wakerly, Printice Hall, $3^{rd}$ Edition.
2. Datasheets of CPLDs and FPGAs.

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T. Y. B.Tech (Electronics& Telecommunication Engineering)**
**Semester-I**
**ET314: MICROCONTROLLERS AND APPLICATIONS**

| **Teaching Scheme:** | **Examination Scheme:** |
|---|---|
| **Lectures– 4Hours/week, 4 Credits** | **ESE – 70 Marks** |
| **Practical – 2 Hours/week, 1 Credit** | **ISE –30Marks** |
| | **ICA-25 Marks** |
| | **POE- 50Marks** |

This course introduces Basics of microcontroller's theory which includes internal details of MCS51 series and PIC Microcontroller. The course also introduces Assembly level as well Embedded C Level programming aspects of both microcontrollers, Memory interfacing and Interfacing various I/O devices.

**Course Prerequisite:**
Student shall have knowledge of Digital Electronics.

**Course Objectives:**
1. To provide an introduction to microcontroller families and details of MCS51.
2. To describe Core features and Peripheral features of PIC16f877a
3. To explain and practice assembly language and Embedded C programming techniques
4. To demonstrate and perform hardware interfacing and design for various applications.

**Course Outcomes:**
At the end of this course, Students will be able to,
1. Expose the fundamental features and operation of contemporary microcontroller
2. Demonstrate and perform hardware interfacing.
3. Explore the students to the fundamentals of PIC Microcontroller 16F877 architecture
4. Introduce the various core and peripheral features in PIC Microcontroller 16F877.
5. Develop and practice assembly language and C language programming techniques

## Section I

**Unit 1: Introduction Microcontroller** (04)
Introduction, Microprocessor and Microcontrollers, CISC & RISC Microcontroller, Harvard and von Neumann architecture, Development system for Microcontroller.

**Unit 2: The 8051 Architecture and Instructions** (08)
8051 Microcontroller Hardware, Addressing modes, Instruction set ,Input / Output Pins, ports and Circuits, External Memory, Counters and Timers, Serial Data Input/ output, interrupts.

**Unit 3: Programming Microcontroller (8051)** (06)
The mechanics of Programming, The assembly Language and C programming concepts, Serial Port Programming, Timer Programming and Interrupt Programming, Program for interfacing Switches, LED, Relay, Buzzer.

**Unit 4: Interfacing with microcontroller** (06)
LCD display, Matrix keyboard, ADC 0809, DAC 0808, Stepper Motor, Interfacing External Memory

**Section II**

**Unit 5: PIC Microcontrollers:** (04)
PIC Microcontrollers Introduction, Architecture, features, Configuration word and Instruction Set

**Unit 6: PIC 16F877A Microcontroller Core Features :(08)**
Functional pin description, various registers, Program memory and data memory organization, Input / output ports, Interrupts, various kinds of RESET

**Unit 7: Peripheral Features and Programming:** (06)
Timers, Capture/ compare / PWM (CCP) Modules in PIC 16F877, Internal ADC, The Watchdog Timer.

**Unit 8: Serial Communication:** (06)
Master synchronous serial port (MSSP) module: SPI, I2C, The Universal Synchronous Asynchronous Receiver Transmitter (USART) module.

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- **Internal Continuous Assessment (ICA):**
  ICA consists of minimum ten Practical based upon above curriculum.
  Students should be introduced to embedded C programming and Minimum Four practical's should be taken using embedded C programming

**Suggested List of Practical:**

1. Arithmetic and Logic operations
2. Interfacing of Switches, LEDs and Buzzer.
3. Interfacing of Matrix Keyboard
4. Interfacing of LCD Display.
5. Interfacing of DAC 0808 and generation of various waveforms.
6. Interfacing of ADC 0809
7. Use of Timer for generation of time delays
8. Use of Timer as counter.
9. Interfacing of Stepper motor.
10. Speed control of DC Motor using PWM.
11. Use of ADC of PIC Microcontrollers.
12. Use of Interrupts for any Application.
13. Use of CCP Module of PIC Controller
14. Serial communication.
15. Study of any one Industrial application using Microcontroller.

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T. Y. B.Tech (Electronics& Telecommunication Engineering)**
**Semester-I**
**ET315.1: OPEN ELECETIVE-I**
**BUSINESS ETHICS**

**Teaching Scheme:**
**Lectures– 3Hours/week, 3 Credits**
**Tutorial – 1 Hour/week, 1 Credit**

**Examination Scheme:**
**ESE – 70 Marks**
**ISE –30Marks**
**ICA-25 Marks**

This course introduces basics of business ethics and its related. The course also introduces theoretical aspects of ethical issues related to stakeholders

**Course Prerequisite:**
Student shall have knowledge basic management principles.

**Course Objectives:**
1. To make students aware of basics of business ethics and related theories
2. To understand different tools for decision making and management in business ethics
3. To get acquainted with corporate and ethical issues related with it
4. To understand different ethical issues related to various stakeholders

**Course Outcomes:**
At the end of this course, Students will be able to,
1. Elaborate concepts of ethics and related theories
2. Describe and apply tools for decision making and management in business ethics
3. Understand and form the ethical issues in corporation
4. Understand and identify the ethical issues from various stakeholders' point of context

## Section-I

**Unit 1: Introduction** (06)
Business Ethics: An overview, importance of Business Ethics, Key context- Globalization, sustainability, Normative ethical theories and descriptive ethical theories and contemporary ethical theories

**Unit 2: Decisions and management of business ethics** (06)
Models of ethical decision making, Individual and situational influences on decision making, business ethics management, Setting standards of ethical behavior, Managing stakeholder relations, Assessing ethical performance, Organizing for Business Ethics management

**Unit 3: Framing business Ethics** (06)
Framing Business Ethics- CSR, stakeholders and Citizenship, Corporation- key features, CSR, Stakeholder theory of firm, Corporate accountability, Corporate citizenship, understanding

## Section-II

**Unit 4: Employees, consumers and business ethics** (07)

Models of organization, Employees as stakeholders, Ethical issues in the firm-employee relation, Ethical challenges of globalization, corporate citizen and employee relations towards sustainable employment. Consumers as stakeholders, Ethical issues, marketing and the consumer, Globalization and consumers, Consumers and corporate citizenship, Sustainable consumption

**Unit 5: Civil Society and Environment** (07)

Civil society organizations as stakeholders, Ethical issues and CSOs, Globalization and CSOs, Corporate Citizenship and civil society, Civil society, business and sustainability, Business Ethics and Environmental values, The dimensions of pollution and resource depletion, Ethics of pollution control, Ethics of conserving depletable resources

**Unit 6: IT and Government** (07)

Information technology and its moral significance to business, IT code of conduct, Data identity and security, Crime and punishment, Government as stakeholder, Ethical issues in the relation between business and government, Globalization and business- government relations, Corporate Citizenship and regulation, Governments, business and sustainability

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- **Internal Continuous Assessment (ICA):**

ICA consists of minimum eight tutorials based upon above curriculum. Tutorial shall include case studies related to context like employee, civil citizens, environment, consumer etc. It will be motivated to have seminars and role plays for various case studies related to ethical issues. Visits to various organizations and reports based on that can be considered.

- **Text Books:**

1. Business Ethics by Andrew Crane, Dirk Matten, Oxford University press

- **Reference Books:**

1. Business Ethics: Ethical Decision Making and Cases, O. C. Ferrell, John Fraedrich, Linda Ferrell, Cengage Publication
2. Business Ethics Methods and Application, Christian U. Becker, Taylor and Francis
3. Business & Society: Ethics and Stakeholder Management, Archie B. Carroll, Ann K. Buchholtz, Cengage Publication 7th Edition

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T. Y. B.Tech (Electronics & Telecommunication Engineering)**
**Semester-I**
**ET316: ELECTRONIC SOFTWARE LAB-III**

**Teaching Scheme:**
**Practical – 2 Hours/week, 1 Credit**
**Tutorial – 1 Hour/week, 1 Credit**

**Examination Scheme:**
**ICA- 25 Marks**

This course will introduce fundamental programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language.

**Course Prerequisite:**
Basic knowledge of programming concepts like Variables, Loops, Control Statements, etc in any programming language like C.

**Course Objectives:**
1. Introduce procedural and object-oriented style for writing Python scripts.
2. Introduce standard library packages and modules in Python.
3. To teach testing, debugging and profiling of Python scripts.

**Course Outcomes:**
At the end of this course, Students will be able to,
1. Write Python scripts using procedure and object oriented approach of writing a computer program.
2. Exhibit ability to use Python's standard library packages to provide solution to a given problem.
3. Test and debug python script for a given problem.

## Section – I

**Unit 1: Introduction to Python** (02)
Introducing the Python Interpreter, Program Execution, Execution Model Variations, TheInteractive Prompt, System Command Lines and Files. Syntactic and semantic differences between Python 2.x and Python3.x.

**Unit 2: Introduction to Python Programming Constructs** (04)
Data types and variables, Collection data types, Control structures, loops and functions, Lambdas, Generators, Exception Handling, String handling, Scope of variables, Modules, Packages, Command line arguments. Built-in: Functions, Constants, Types, Exceptions.

**Unit 3: Introduction to Object Oriented Programming in Python** (04)
Classes, Instance Objects, Method Objects, Class and Instance Variables, Attributes and methods, Inheritance and polymorphism

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T. Y. B.Tech (Electronics& Telecommunication Engineering)**
**Semester-II**
**ET321: ANTENNA AND WAVE PROPOGATION**

**Teaching Scheme:**
**Lectures– 4 Hours/week, 4 Credits**
**Practical – 2 Hours/week, 1 Credit**

**Examination Scheme:**
**ESE – 70 Marks**
**ISE –30 Marks**
**ICA- 25 Marks**
**OE- 25 Marks**

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This course introduces Antenna and Wave Propagation which deals with different types of antenna, and propagation of wave over ground and through atmosphere. The course also introduces theoretical and analytical aspects of wave propagation and radiating system.

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**Course Prerequisite:**

Student shall have knowledge of Electromagnetic Fundamentals.

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**Course Objectives:**

The student will learn and understand
1. Basics of antenna
2. Various types of antenna and radiation mechanism of antenna
3. Techniques used for antenna parameters measurement
4. Wave propagation over ground, through troposphere and inosphere.

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**Course Outcomes:**

At the end of this course, Students will be able to,
1. Identify basic antenna parameters.
2. Analyze radiation pattern of various antennas.
3. Illustrate techniques for antenna parameter measurements.
4. Identify the characteristics of radio wave propagation.
5. Understand the various applications of antenna.

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## Section-I

**Unit 1:Antenna Fundamentals:** (06)

Comparison between an antenna & transmission line, Radiation Principle, Antenna parameters: Beam area, Beam width, Polarization, Radiation Intensity, Beam Efficiency, Directivity and directive gain, radiation resistance, radiation efficiency, Antenna aperture-physical and effective apertures, effective height, antenna field zones.

**Unit 2: Antenna Arrays:** (08)

Arrays of two isotropic point sources, non isotropic Sources, principle of pattern multiplication, linear arrays of n elements, Broadside, End-fire radiation pattern, directivity, Beam-width and null directions, array factor.

**Unit 3: HF, VHF and UHF Antennas:** (10)

Radiation from Small Electric Dipole, Quarter Wave Monopole and Half Wave Dipole – Current Distributions, Radiated Power, Radiation Resistance.

Helical Antennas: Helical geometry, transmission and radiation modes, wide band characteristics of helical antenna.

Slot antenna: Patterns of slot antenna, Babinet's principle and complementary antennas, impedance of slot antennas. (Excluding mathematical derivations for Helical and Slot Antennas. The problems on Helical and Slot Antennas will be included.)

## Section-II

**Unit 4: UHF and Microwave Antennas:** (08)

Important horn shapes, Design equation of horn antenna, Optimum Horn, Uses of horn antenna.

Reflector Antennas: Introduction, Plane Sheet and Corner Reflectors, Paraboloidal Reflectors – Geometry, Pattern Characteristics, Feed Methods.

Microstrip Antennas: Introduction, Advantages and Limitations, Various microstrip patch configurations, Radiation mechanism, Feeding techniques, Applications of microstrip antenna.

**Unit 5: Special Antennas:** (06)

Introduction of frequency independent antennas –Spiral antenna, Log periodic antenna, Modern antennas- Reconfigurable antenna, Active antenna, Smart antenna.

Antenna Measurements: Measurement of Gain, Radiation pattern and Polarization.

**Unit 6: Radio Wave Propagation:** (10)

Modes of propagation, structure of atmosphere, ground wave propagation, Tropospheric propagation, Duct propagation, Troposcatter propagation, flat earth and curved earth concept. Sky wave propagation- Virtual Height, Critical frequency, Maximum usable frequency, Skip distance, Fading, Multi hop propagation.

- **Internal Continuous Assessment (ICA):**

ICA consists of minimum eight practicals from given list

**Suggested List of Practicals:**

1. To plot radiation pattern of dipole antenna and calculate its parameters
2. To plot radiation pattern of monopole antenna and calculate its parameters
3. To plot radiation pattern of Helical antenna and calculate its parameters
4. To plot radiation pattern of Log periodic antenna and calculate its parameters
5. To plot radiation pattern of parabolic reflector and calculate its parameters
6. To plot radiation pattern of horn antenna and calculate its parameters
7. To plot radiation pattern of slot antenna and calculate its parameters
8. To plot radiation pattern of Broadside array and calculate its parameters
9. To plot radiation pattern of End fire array and calculate its parameters
10. To plot 2-dimensional and 3-dimensional radiation pattern of directional antenna using simulation software.

- **Text Books:**

1. Antennas for All Applications – John D. Kraus and R. J. Marhefka, and Ahmad S. Khan TMH, New Delhi, 4th ed., (Special Indian Edition) 2010. Electromagnetic field theory & Transmission Lines, GSN Raju, Pearson Education
2. Electromagnetic Waves and Radiating Systems – E.C. Jordan and K.G. Balmain, PHI, 2nd edition 2000

- **Reference Books:**

1. Antenna Theory - C.A. Balanis, John Wiley & Sons, 3rd ed., 2005.
2. Antennas and Wave Propagation – K.D. Prasad, SatyaPrakashan, Tech India Publications, New Delhi, 2001.
3. Transmission and Propagation – E.V.D. Glazier and H.R.L. Lamont, The Services Text Book of Radio, vol. 5, Standard Publishers Distributors, Delhi.
4. Antennas – John D. Kraus, McGraw-Hill (International Edition), 2nd Ed. 1988.

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T. Y. B.Tech (Electronics& Telecommunication Engineering)**
**Semester-II**

## ET322: EMBEDDED SYSTEMS

**Teaching Scheme:**
**Lectures– 4 Hours/week, 4 Credits**
**Practical – 2 Hours/week, 1 Credit**

**Examination Scheme:**
**ESE – 70 Marks**
**ISE –30Marks**
**ICA -25 Marks**
**POE - 50Marks**

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This course introduces Embedded System Design with software and hardware perspective. The course also introduces practical design aspects of embedded system.

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**Course Prerequisite:**
Student shall have knowledge digital circuits, basic C programming, Microcontroller fundamentals.

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**Course Objectives:**
1. To make student realize different aspects and application areas of embedded systems.
2. To make student understand ARM core architecture.
3. To make student understand interfacing of input & output devices
4. To introduce to student concepts of Real time operating system.

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**Course Outcomes:**
At the end of this course, Students will be able to,
1. Student can describe hardware and software architecture of embedded system.
2. Student can describe ARM7TDMI core architecture and Controller based on this architecture
3. Student can write C program for different applications for LPC2148microcontroller.
4. Student can interface different peripherals with LPC2148 microcontroller.
5. Student can describe microcontroller based real time systems for different applications.

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### Section - I

**Unit 1: Embedded System Introduction** (06)
Introduction to Embedded System, History, Design challenges, optimizing design metrics, time to market, applications of embedded systems and recent trends in embedded systems, embedded design concepts and definitions.

**Unit 2: System Architecture** (10)
Introduction to ARM7TDMI core architecture, ARM extension family, Pipeline, LPC 2148, ARM instruction set, thumb instruction set, memory management, Bus architecture.

**Unit 3: On Chip Peripherals** (08)
Study of on-chip peripherals like I/O ports, PLL, timers / counters, interrupts, on-chip ADC, DAC,

## Section – II

**Unit 4: Interfacing and Programming** (10)
Introduction to Embedded C Programming, Basic embedded C programs for on-chip peripherals studied in system architecture like PLL, timers, ADC, WDT, PWM. Interfacing of devices – LED, Switches (buttons),4 x 4 Matrix Keypad, 7-segment display, LCD display, DC motor.

**Unit 5: Real Time Operating System** (10)
Architecture of kernel, task scheduler, ISR, Semaphores, mailbox, message queues, pipes, events, timers, memory management, RTOS services in contrast with traditional OS, introduction to µcosII.

**Unit 6: Case Studies** (04)
Case studies like Digital Camera, Smart Card System based ATM and Mobile Internet Device.

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**Internal Continuous Assessment:**
ICA consists of 8 to 10 practical's based upon above curriculum.
List of Practical's:

1. Arithmetic and Logic operations
2. Interfacing of Switch, LED / Buzzer / Relay
3. Interfacing of LCD Display.
4. Interfacing matrix Keypad and display key pressed on LCD / Seven Segment Display
5. Use of Timer for generation of time delays
6. Use of Interrupts for any Application
7. Use of ADC of Microcontroller.
8. Interfacing of Stepper motor.
9. Interfacing of DC Motor
10. USART Serial communication.
11. Creating two tasks, which will print some characters on the serial port, Start the scheduler and
12. observe the behavior.
13. Implementing a semaphore for any given task switching using RTOS on microcontroller board.
14. Implementing a Mailbox for task communication.

- **Text books:**

1. Embedded Systems: Architecture, Programming And Design by Rajkamal Tata McGraw-Hill Education
2. Frank Vahid - Embedded Systems - Wiley India
3. ARM System Developer's Guide, Designing and Optimizing System Software - Andrew N. Sloss , Dominic Symes, Chris Wright - Morgan Kaufmann Publisher.
4. Embedded systems software primer - David Simon – Pearson
5. MicroC / OS-II, Jean J Labrose - Indian Low Price Edition

- **Reference Books:**

1. DR.K.V.K.K. Prasad - Embedded / real time system – Dreamtech
2. Embedded real systems Programming – Iyer, Gupta, TMH
3. Embedded systems: a contemporary design tool, James K. Peckol- Wiley India
4. Datasheet of LPC 2148.

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T. Y. B.Tech (Electronics& Telecommunication Engineering)**
**Semester-II**
**ET323 : ELECTRONIC SYSTEM DESIGN**

| **Teaching Scheme** | **Examination Scheme** |
|---|---|
| **Lectures– 4 Hours/week, 4 Credits** | **ESE – 70 Marks** |
| **Practical – 2 Hour/week, 1 Credit** | **ISE –30 Marks** |
| | **ICA– 25 Marks** |
| | **POE – # 50 Marks** |

This course introduces construction, characteristics of power electronics devices and its applications. The course also introduces design of different electronics systems such as frequency synthesizer, frequency counter, time period measurement. This course also covers design of industrial controllers and aspects of PLC & automation.

**Course Prerequisite:**
Student shall have knowledge of Basic Electronics, Linear Integrated Circuits and Digital Electronics

**Course Objectives:**
1. To describe the concept and applications of power electronic devices.
2. To design and analyze timer, frequency counters and digital voltmeters.
3. To design applications of Phase Locked Loop (PLL) and industrial process control.
4. To provide introduction of the concept of PLC and its applications.

**Course Outcomes:**
At the end of this course, Students will be able to,
1.Describe construction, working & analyze characteristics of thyristors.
2.Analyze AC and DC power control circuits using thyristors.
3. Design and implement timers, frequency counters, digital voltmeters and frequency synthesizers.
4.Design and simulate Communication system components for system design.
5.Design and analyze controllers for industrial applications.

## Section I

**Unit 1: Introduction to Power Semiconductor Devices** (08)
SCR - construction, working, VI characteristics, turn on and turn off methods (Class A, B, C, D). TRIAC - construction, working, VI Characteristics. DIAC - construction, working, VI Characteristics.

**Unit 2: Power Electronics Applications** (08)
Single phase half wave controlled rectifier, center tapped full wave controlled rectifier, fully controlled bridge rectifier, AC power control using DIAC & TRIAC and its applications.

**Unit 3: Modulator, Demodulator & PLL** (09)
Balanced modulator principle, IC 1596, applications of IC 1596 as AM modulator & Mixer. PLL-Working Principle, design consideration, FM detector, FSK demodulator, PSK demodulator, design of frequency synthesizer using LM565.

## Section II

**Unit 4: Timer, Counters &Digital Voltmeter** (09)
Design of Timer using XR 2240, Design of counter using IC 74C926 for the time & event counting, Design of 3 ½ digit Multi-range DVM using discrete components.

**Unit 5: Design of Industrial Control** (08)
Signal conditioning for sensors PT 100, LM 35, Thermocouples (J & K type), current loop Interface (4mA to 20mA), zero & span circuit, offset V to I & I to V converter, V to V converter.

**Unit 6: Controllers** (08)
Design of analog ON/OFF controller and proportional controller for controlling process, PLC architecture and applications, bottle filling plant & elevator control.

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***Note*** - # Practical and Oral Examination of Electronics System Design is combined with Mini Hardware Project.

**• Internal Continuous Assessment:**
ICA consists of minimum eight practical from following suggestive list.

**Suggestive List of Practicals:**
1. VI Characteristics of SCR.
2. VI characteristics of TRIAC & DIAC.
3. Single phase half wave controlled rectifier.
4. Lamp dimmer using TRIAC & DIAC.
5. AM simulation using MATLAB SIMULINK.
6. PLL application using MATLAB SIMULINK.
7. Implementation of frequency division circuit using IC.
8. Application implementation using PLC.
9. Temperature controller using OPAMP.

10. V to V Converter.
11. Simulation of Display design.
12. Design and simulate 3 ½ digit DVM.

- **Text Books:**

1. Power Electronics, circuits, devices & applications by M. H. Rashid, Pearson Education, 3rd edition.
2. Power Electronics by P. C. Sen, TATA Mc. Graw Hill, 2nd Edition.
3. Power Electronics by M. D. Singh & K. B. Khanchandani, TATA Mc. Graw Hill, 2nd Edition.
4. Introduction to System Design Using Integrated Circuits by B. S. Sonde, NewAge International Publishers, 2nd Edition.

**• Reference Books:**

1. Integrated Circuits by K. R. Botkar, Khanna publishers, 10th Edition.
2. Programmable Logic Controllers by Job Den Otter, Prentice Hall International Editions.
3. Programmable Logic Controllers by John Web & Ronald Reis, PHI Publications, 5th edition.
4. Process Control Instrumentation Technology by Curtis. D. Joshon, Pearson Education, 8th edition.
5. Data sheets of Analog and digital ICs used for design using Web resources.

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T. Y. B.Tech (Electronics& Telecommunication Engineering)**
**Semester-I**
**ET324: ADVANCED MOBILE COMMUNICATION**

| **Teaching Scheme:** | **Examination Scheme:** |
|---|---|
| **Lectures– 3 Hours/week, 3 Credits** | **ESE -70 Marks** |
| **Tutorial – 1 Hour/week, 1 Credit** | **ISE - 30 Marks** |
| | **ICA -25 Marks** |

This course introduces Advanced ideas, design principles, architectures and technology standards used in advanced mobile communication systems.

**Course Prerequisite:**
Student shall have knowledge of basics of analog communication and digital communication.

**Course Objectives:**
1. To recognize cellular concept in mobile communication.
2. To examine the Mobile radio propagation, cellular system design, and to identify multiple access techniques used in mobile communication
3. To analyze mobile technologies like GSM
4. To categorize the mobile communication evolution of 2G to 5G technologies.
5. To describe overview of 4G & 5G next generation technology.

**Course Outcomes:**
At the end of this course, Students will be able to,
1. Students will be able to define cellular systems, working and hand off strategies implemented in mobile communication.
2. Students will be able to analyze various losses in mobile radio propagations and define multiple access schemes sharing radio spectrum.
3. Students will be able to define GSM - architecture, frame structure, system capacity and services provided.
4. Students will be able to describe mobile communication evolution of 2G to 5G technologies
5. Students will be able to analyze emerging technologies required for fourth generation mobile systems such as Long Term Evolution(LTE) & 5G next generation technology.

## Section I

**Unit 1: Introduction** (08)
Introduction to wireless communication systems
The Cellular Engineering Fundamentals : Introduction, Frequency Re-use, Channel Assignment Strategies, Handoff Strategies, Interference and System Capacity, Trunking and Grade of service, Co-channel Interference (CCI), Adjacent Channel Interference (ACI), Cell Splitting, Sectoring, Microcell Zone concept, Repeaters.

**Unit 2: Mobile Radio Propagation** (07)
Large scale path loss, Free space propagation model, ground reflection model (two ray model), diffraction, Practical Link Budget using path loss model, Small scale fading and multipath small scale multipath propagation.

**Unit 3: Multiple Access Technique in Wireless Communications** (06)
Frequency Division Multiple Access (FDMA), Time Division Multiple Access (TDMA), Spread Spectrum Multiple Access (SSMA), Space Division Multiple Access (SDMA), Orthogonal Frequency Division Multiple Access (OFDMA)

## Section II

**Unit 4: GSM** (07)
GSM Network architecture, signaling protocol architecture, identifiers, channels, Frame structure, speech coding, authentication and security, call procedure, handoff procedure, services and features. Mobile data networks, GPRS and higher data rates.

**Unit 5: CDMA digital cellular standard (IS-95) & IMT – 2020** (07)
Frequency and channel specifications of IS-95, forward and reverse CDMA channel, packet and frame formats, mobility and radio resource management. IMT 2000 & IMT Advanced, IMT 2020, capabilities.

**Unit 6: 4G (LTE) & 5G Next Generation Technology** (07)
Introduction to 4G, LTE Architecture, Elements of LTE- EPS, LTE Radio / air interface- Modulation and features, LTE Channels, Introduction to 5G, 5G CN Architecture, Radio/air interface, features.

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- **Internal Continuous Assessment (ICA):**

- ICA shall include minimum **eight tutorials** based on above syllabus.
- One visit to the **Mobile base station** & submission of report.

- **Text Books:**

1. Wireless Communications - Theodore S. Rappaport, Prentice Hall of India, PTR Publication.
2. Principles of Wireless Networks – Kaveh Pahlavan, Prashant Krishnamurthy, PHI.
3. Mobile Communication – G. K. Behera & Lopamudra Das, Scitech Publication.
4. Mobile Communications – Jochen Schiller, Pearson Education, Second Edition.

- **Reference Books:**

1. Wireless Communication – Singhal, TMH.
2. Mobile and Personal Communication Systems and Services – Raj Pandya, Prentice Hall of India.
3. Wireless Communication – D. P. Agarwal, Thomnson learning 2007, Second Edition.
4. Wireless Communication and Network –Upena Dalal, OXFORD higher Education
5. 4 G Roadmap and Emerging Communication Technologies – Young Kyun Kim and Ramjee Prasad –Artechhouse.
6. 5G NR: The Next Generation Wireless Access Technology- By Erik Dahlman, Stefan Parkvall, Johan Skold

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**T. Y. B.Tech (Electronics& Telecommunication Engineering)**
**Semester-I**

**ET325.1: OPEN ELECTIVE-II**
**OPTICAL COMMUNICATION**

**Teaching Scheme:**
**Lectures– 3Hours/week, 3 Credits**
**Practical – 2 Hours/week, 1 Credit**

**Examination Scheme:**
**ESE – 70 Marks**
**ISE –30 Marks**
**ICA- 25 Marks**

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This course introduces the basic concept of optical communication. It explains the basic working principle of optical fiber. It covers the study of basic optical devices as optical source, optical detector, optical joints. It also introduces aspects of practical design of optical communication system.

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**Course Prerequisite:**
Student should have knowledge of basic communication system, light reflection, refraction process.

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**Course Objectives:**
1. To make students to understand basic working principle of optical fiber.
2. To introduce to student basic losses in optical fiber & reasons behind the losses.
3. To make students to understand the basics of optical sources(LASER & LED).
4. To make students to understand the basics of optical detectors.
5. To study the concepts of optical networks.

---

**Course Outcomes:**
At the end of this course, Students will be able to,
1. Demonstrate working of optical fiber.
2. Explain transmission characteristics of optical fibers & concept of optical joints.
3. Illustrate different optical sources & optical detectors.
4. Solve the numerical to calculate the various parameters of optical sources & detectors.
5. Explain the different types of optical amplifier & optical networks.
6. Analyze the functional blocks in optical communication system.

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## Section I

**Unit 1 : Overview of Optical Fiber Communication** (06)
Introduction, Historical development, general optical communication system, advantages, disadvantages, optical fiber waveguides, ray theory ,mode theory, Types of optical fibers, single mode ,multimode fiber, step index & graded index fibers, applications of optical fiber communication.

**Unit 2 : Transmission Characteristics of Optical Fibers and Optical Joints** (08)
Introduction, Attenuation, absorption- intrinsic & extrinsic, linear &non linear scattering losses, bending loss, dispersion- intermodal & intramodal, Fibers alignment and joint loss, fiber splices, connectors, fiber couplers& its types.

**Unit 3 : Optical Source** (08)
Laser: Requirements of optical source, basic concept of LASER, optical emission from semiconductors, heterojunction structure, Semiconductor injection laser and structures, Injection laser characteristics, LED: LED structures, LED characteristics, Light Modulation.

## Section II

**Unit 4 : Optical Detectors** (06)
Introduction, requirements of optical detector, optical detection principles, performance parameters of detector- absorption, quantum efficiency, responsivity, cut off wavelength. Semiconductor photo diodes with and without internal gain, PN, PIN, Avalanche Photo diodes, Phototransistors.

**Unit 5 : Optical Networks** (06)
Optical Networks: Introduction, networking terminology, optical network modes, SONET / SDH, SONET/SDH rings, Optical Ethernet, data buses, Fiber Distributed Data Interface (FDDI).

**Unit 6 : Fiber Optical Communication Systems** (06)
Introduction, Transmitter Design, Receiver Design, Noise equivalent model of receiver, Link Design, Wavelength Division Multiplexing (WDM), DWDM, Optical Time Division Multiplexing.

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- **Internal Continuous Assessment (ICA):**

ICA consists of minimum 8Practicals based upon above curriculum.

**Suggested List of Practicals:**

1. Setting up fiber optic analog& digital link.
2. Frequency modulation using fiber optic cable.
3. Pulse width Modulation using fiber optic cable.
4. Study of propagation loss in optical fiber.
5. Study of bending loss in optical fiber.
6. Measurement of optical power using optical power meter.
7. Measurement of Numerical Aperture.
8. Transmission of voice signal using FOC.
9. Study of WDM .
10. Study of LED output characteristics.

- **Text Books:**

1. Optical Fiber Communications, John M. Senior, Pearson Education. 3rd Impression, 2007
2. Optical Fiber Communications, Gerd Keiser, 4th Ed., MGH, 2008
3. Optical Fiber Communications ,D.C.Agarwal - S.Chand and company

- **Reference Books:**

1. Optical Communications, David Gover – PHI
2. Fiber Optics communication, HozoldKolimbiris - Pearson Education.
3. Fiber Optics Communication – 5th Edition, Palais-Pearson Education

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**
**T. Y. B.Tech (Electronics& Telecommunication Engineering)**
**Semester-II**
**ET325.2: OPEN ELECTIVE-II**
**SENSORS & APPLICATIONS**

**Teaching Scheme:**
**Lectures– 3 Hours/week, 3 Credits**
**Practical – 2 Hours/week, 1 Credit**

**Examination Scheme:**
**ESE – 70 Marks**
**ISE –30 Marks**
**ICA- 25 Marks**

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This course provides good knowledge of working of different types of sensors used in various application areas. This course also provides knowledge of interfacing of electronic circuits with different sensors for its applications in different fields.

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**Course Prerequisite:**
Concept of internal characteristics of passive elements like resistor, capacitor, inductor etc., Diode and transistor working, knowledge of basic fundamentals of mechanical terms like position, strain, stress etc.

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**Course Objectives:**
1. To introduce students with the basics of various sensors and its characteristics.
2. To make students familiar with the working principle of different types of sensors and transducers.
3. To introduce various signal conditioning and smoothing circuits for sensors
4. To familiarize students with different sensor technologies and interfacing techniques.
5. To introduce students with the concept of actuators.

---

**Course Outcomes:**
At the end of this course, Students will be able to,
1. Elaborate the concept of sensors and its characteristics.
2. Describe the working principle of analog and digital sensors.
3. Design sensor interface circuits for a given engineering problem.
4. Select an appropriate sensor for a given engineering application based on interface technique, material and technology of a sensor.
5. Describe the working principle of different types of actuators.

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**Section I**

**Unit 1: Sensors Fundamentals and Characteristics** (06)
Sensors, Signals and Systems, Sensor Classification, Units of Measurements, Sensor Characteristics

**Unit 2: Physical Principles of Sensing** (08)
Electric Charges, Fields, and Potentials, Capacitance, Magnetism, Induction, Resistance, Piezoelectric Effect, Hall Effect, Temperature and Thermal Properties of Material, Heat Transfer, Light, Dynamic Models of Sensor Elements

**Unit 3 : Interface Electronic Circuits** (10)
Input Characteristics of Interface Circuits, Amplifiers, Excitation Circuits, Analog to Digital Converters, Direct Digitization and Processing, Bridge Circuits, Data Transmission, Batteries for Low Power Sensors

**Section II**

**Unit 4: Sensors in Different Application Area** (09)
Occupancy and Motion Detectors, Position, Displacement, and Level, Velocity and Acceleration, Force, Strain, and Tactile Sensors, Pressure Sensors, Humidity and Moisture Sensors, Light Detectors, Temperature Sensors

**Unit 5 : Sensor Materials and Technologies** (08)
Materials, Surface Processing, Nano-Technology

**Unit 6 : Actuators** (07)
Introduction, Classification, Principle of Operation (Electrical Actuators, Electromagnetic Actuators, Electromechanical Actuators, Hydraulic and Pneumatic Actuators, Micro- and Nanoactuators), Selection Criteria.

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- **Internal Continuous Assessment (ICA):**

ICA consists of minimum Ten Practical's and/or assignments based upon above curriculum.

- **Text Books:**

1. J. Fraden, Handbook of Modern Sensors:Physical, Designs, and Applications, AIP Press, Springer
2. Sensors and Actuators Engineering System Instrumentation By Clarence W de Silva
3. Electrical and Electronic Measurements and instrumentation R.K Rajput S. Chand

- **Reference Books:**

1. D. Patranabis, Sensors and Transducers, PHI Publication, New Delhi
2. A Course in Electronics and Electrical Measurements and Instruments J.B. Gupta Katson Books
3. A Course in Electrical and Electronic Measurements and Instrumentation A.K.Sawheny Dhanpat Rai

# ACTION TAKEN REPORT

**Date of meeting in which ATR is presented: 27.03.2016**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 20-12-2015

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 1. About IQAC and NAAC Accreditation. | It was brought to the notice of the meeting that our institute had applied for accreditation of national assessment and accreditation council (NAAC). In response to the application NAAC peer team visited our institute on 5 to 7 October 2015. Result of the visit is not yet declared by NAAC. To perceive action plan for performance evaluation, assessment and accreditation and quality up gradation and to become eligible for second cycle of NAAC, IQAC is necessary. Accordingly we have established IQAC. The prim task of IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institute. Guidelines/ manual about IQAC prepared by NAAC was put before the meeting. Also it was brought to the notice of the meeting NAAC has awarded 2.75 CGPA with grade B to our institute. Our small lacuna pointed out by NAAC was some unqualified faculty on role.<br>Meeting took the note of the above and unanimously resolved to<br>i) Work as per IQAC guideline<br>ii) Efforts be made to appoint qualified staff to remove little lacuna. | i) Work has been started as per IQAC guidelines.<br>ii) Care will be taken on this front and accordingly faculty members are appointed as per the AICTE guidelines. |

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 2. About review of various academic and administrative activities of the institutes. | It was brought to the notice of the meeting that to enhance quality, institute performs various academic and administrative activities as given below:<br>i)Pandharpur pattern in Professional Education:-<br>It is our indigenous documented teaching learning process along with teachers' development and student development. The copy of PPPE was put before the meeting<br>ii) System Manual:-<br>The roles and responsibilities along with authority delegation of Principal, Vice-Principal, Dean Administration, Dean-Academics, Dean-R&D, Dean-Students, TPO, HODs, Class Coordinators, Proctor teacher, Chief rector are documented as system manual for the smooth functioning of the institute. The copy of system manual was put before the meeting. In the meeting of Board of Governors dated 19-12-2015, It was approved to appoint one more Dean by the name Dean-Training, Placement and Industry interaction.<br>Thorough discussion was made and it was unanimously resolved to approve and implement PPPE and system manual further in true spirit. | HODs are taking review and ensuring effective implementation of PPPE and System Manual. |
| 3. Issues with the permission of the chair. | There being no further issues to discuss, meeting concluded with vote of thanks to the chair and all present. | ..... |

S.Mutkane

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

COLLEGE OF ENGINEERING PANDHARPUR

B.Range

PRINCIPAL,
College of Engineering,
PANDHARPUR

**Date of meeting in which ATR is presented: 28.05.2016**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 27-03-2016

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 1.Comfirmation of minutes of last meeting | Minutes of the last meeting held on 20/12/2015 were read and unanimously confirmed. | --- |
| 2. About review of various academic and administrative activities of the institute | It was brought to the notice of the meeting that following activaties are being conducted in the institute<br>i) GATE Tuter software is provided to the student and faculty. Faculty members should use it for 2Hrs/week. This activity is being monitored by Dean-Academics.<br>ii) Dr. R. Chidambaram, Principal scientific advisor, Government of India has visited our institute on 06-02-2016.<br>iii) Alumni meet was conducted on 05-02-2016 in Pune<br>iv) Guides are being allotted by forming project groups at S.E. level.<br>v) ICT content of every subject has been uploaded by the subject teacher on FTP.<br>vi) Meetings of various committees such as Anti-Ranging, Palak-Shikshak Sangh, Discipline, Deans and HODs, general staff meeting, Academic monitoring committee, Local managing committee, standing committee, women grievance redressal committee, grievance redressal committee, Academic advisory committee, Board of Governor were conducted. The minutes of these committees meetings held up till now were put before the meeting.<br>Thorough discussion was made and it was unanimously resolved to approve discussion taken in the above said meeting and further resolved to arrange workshop on accreditation. | i. GATE tutor software is being used by students and faculty members on regular basis.<br>ii. Guides have been allotted for project groups from SE level.<br>iii. ICT content for each subject has been uploaded on FTP.<br>iv. Already, Workshop on Out Come based education by Dr. Ajit Thete is arranged on 16/03/2016 and also planned two more workshops in next academic year. |
| 3.Issues with the permission of the chair | There being no further issues to discuss, meeting concluded with vote of thanks to the chair and all present. | ….. |

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

PRINCIPAL,
College of Engineering,
PANDHARPUR.

**Date of meeting in which ATR is presented: 22.10.2016**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 28-05-2016

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 1. Comfirmation of minutes of last meeting | The minutes of the last meeting held on 27/03/2016 were read and unanimously confirmed. | .... |
| 2. About review of various academic and administrative activities of the institute | It was brought to the notice of the meeting the following:<br>a) Successful students in GATE exam are as follow: ENTC-1 /112, Civil: 3/39, CSE & II-0/160, Mech- 0/90<br>b) SEM-I Academic year 2016-17 will start from 23/07/2016 for TE and BE classes.<br>c) Project competition was successfully conducted on 09/5/2016 for diploma students of CSE and ENTC branch.<br>d) Members of Rashtriya Uchchatar Shiksha Abhiyam (RUSA) visited our college under the leadership of Mrs. Manisha Varma madam (State Project Director). She was accompanied by Dr. Vilas Gaikar, Vice Chancellor of Dr. Babasaheb Ambedkar Technological University Lonere, Dr. Sanjay Jagtap and others. This visit was effectively coordinated by Dr. S. M. Mukane and effective presentation was given by Dr. P. M. Pawar. Mrs. Manisha Varma and her team visited all the activities in the institute and expressed extreme satisfaction and happiness.<br>Review of preparation for our international conference was taken in meeting also review of faculty requirement department wise taken in the meeting.<br>Thorough discussion was made and it was unanimously resolved to put study leave record of staff members in the next meeting and further resolved to arrange one session on academic audit. | a) SEM-I of Academic Year 2016-17 has been started on 23/07/2016.<br>b) In this meeting study leave record of staff members is put up.<br>c) In view of academic audit, an interactive session by Dr. Dilip Nandanwar on "Preparation for Autonomy" is arranged on 17/08/2016. |
| 3. Issues with the permission of the chair | There being no further issues to discuss, meeting concluded with vote of thanks to the chair and all present. | ..... |

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

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PANDHARPUR.

**Date of meeting in which ATR is presented: 29.01.2017**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 22-10-2016

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 1. Confirmation of the minutes of the last meeting. | The minutes of the meeting held on 28/05/2016 were read and unanimously confirmed. | .... |
| 2. About review of work done in respect of function IQAC. | It was brought to the notice of the meeting that function of IQAC can be divided into three categories viz. Academic task, administration task and financial task<br><br>**I) Review of academic function was taken in the meeting as follows**<br>i) Academic calendar was put before a meeting<br>ii) Teaching plan of all the subjects was put before the meeting<br>iii) ISE's and chapter test were conducted in Sem-I of A.Y.2016-17 as per institute policies.<br>iv) Slow learner were identified and practice session were conducted<br>v) Expert/Guest lecture were arranged in the departments.<br>vi) GD & Moodle sessions were conducted.<br>vii) Four types of feedback viz. Feedback by Dean-Academics in class, CR feedback, feedback in student council and online feedback.<br>Appropriate actions also taken based on feedback. | |

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| | **II) Review of Administrative Task was taken in the meeting as follows**<br>i) Minutes of local managing committee, Board of Governors, Student Council, standing committee, Deans and HODs, general staff meeting, women grievance redressal committee, grievance redressal committee, Academic advisory committee were conducted and minutes of these meeting were put before the meeting.<br>ii) Youth festival was successfully organized by our college on 5 oct to 7 oct 2016.<br>iii) National level annual technical symposium Olympus 2K16 was successfully organized on 15 -16 Sept 2016 for students.<br>iv) Function like teacher day, Engineers day, SVERI foundation day, Independence day, Mahatma Gandhi Jayanti were celebrated<br>**III) Review of financial task were taken in the meeting which is as follows:**<br>i) Review of budget was taken regularly in Deans & HODs meeting. A special budget review meeting was also conducted by Dr.S.M Mukane on 21/8/2016<br>ii) Circulars related to financial assistance to student and staff were put before the meeting.<br>**IV) The annul quality assurance report (AQAR) for academic year 2015-16 was put before the meeting.**<br>Thorough discussion was made and it was unanimously resolved as follows:<br>i) Minutes of above mentioned committees, circular, office order were approved. | i) Minutes of local managing committee, Board of Governors, Student Council, standing committee, Deans and HODs, general staff meeting, women grievance redressal committee, grievance redressal committee and Academic advisory committee were sent to concern members for the implementation. |

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| | i) Overall responsibility chart in addition to academic load be prepared by each HOD.<br>ii) Dean-R&D will prepare IPR policy in respect of research improvement quality<br>iii) Subcommittee under the coordinator ship of Dr. P. M. Pawar will prepare plan for quality benchmark for next accreditation cycle. Members of the committee will be Dr. S. M. Mukane, Dr. Sridevi Dileep, Prof. Mrs. R. R. Bhosale, Dr. A. A. Utpat and Prof. Ms. M. M. Bhore.<br>iv) There should be separate building for library and R&D activities.<br>v) To approve AQAR for academic year 2015-16 and sent to NAAC. | ii) Overall responsibility chart of the activities performed by faculty members in addition to academic load is prepared by all HODs.<br>iii) Work related to preparation of IPR policy by Dean R & D is in progress.<br>iv)Committee has been constituted.<br>v) The planning of separate building for Library and R&D activities is already included in Perspective plan.<br>vi) Approved AQAR has been sent to NAAC. |
| 3 Issues with the permission of the chair. | There being no further issues to discuss, meeting concluded with vote of thanks to the chair and all present. | ……. |

S Mukane

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

COLLEGE OF ENGINEERING PANDHARPUR

B. Range

PRINCIPAL,
College of Engineering,
PANDHARPUR.

**Date of meeting in which ATR is presented: 10.06.2017**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 29-01-2017

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 1.Comfirmation of minutes of last meeting | The minutes of the last meeting held on 22/10/2016 were read and unanimously confirmed. | .... |
| 2. Review of work done in respect of functions of IQAC | Review of work done in respect of functions of IQAC was taken in the meeting.<br>Thorough discussion was made and it was unanimously resolved as follows:<br>i) Improve quality of teaching and non-teaching staff. Arrange FDP programs for them.<br>ii) Encourage the faculty for higher education i.e. ME/M.Tech and Ph.D as usual.<br>iii) Faculty should arrange seminar for students about minor or major projects, etc. Regarding this Dean-Students be requested to issue circular regarding this and this circular be sent to all Deans and HODs.<br>iv) Every class coordinator should take care of the students especially on 15th Aug and 26th Jan programs. Student will assemble in their classroom. CC will take attendance and then CC will take students on the ground and will take care of then until program is over. Dean-Student will prepare plan by discussing it with all Deans, HODs and SVERI institute Principals regarding standing arrangement of boys student and girl student, college wise and branch wise, standing place of CC and other teaching and non-teaching staff. Dean-Student will inform all the concern accordingly.<br>v) Arrange health checkup camp for all the students of SVERI. Proctor teacher should check the reports of their students. If some major problem to any student then call their parents and tell them about the problem of their ward. | i) 04 FDPs are being organized.<br>ii) Institute motivates faculty members for pursuing ME/M.Tech and Ph.D from reputed organizations by providing study leave facility.<br>iii) Circular is under preparation.<br>iv) Accordingly, Dean Students is being taking care of the same.<br>v) Health checkup camp is arranged.<br>vi) Informed to all IQAC committee members about the same<br>vii) Yoga Session is arranged.<br>viii) The planning for giving seminar by Ph.D faculty member is made.<br>ix) Started to practice for upkeep of documents by using Google-form link<br>x) SOP is prepared by all section in-charges |

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| | Specially for ladies there is HB problem, to overcome this advice all the students to increase their HB by eating daily 15-20 Tulsi leaves, Gul-Shengdane, Khajur, etc.<br>vi) Every member of IQAC committee should come with two suggestions or problems in the next meeting.<br>vii) Yoga session be arranged.<br>viii) Ph.D completed faculty should give seminar to the student on current technologies or presented or published paper by them.<br>ix)Standard policy and procedure for upkeep of documents be framed. For its framing two members committee consisting of Dr. S. M. Mukane and Dr. P. S. kachare be formed. It will submit its report in the next meeting of this committee.<br>x) Standard operating procedure for conduction of functions and meetings be framed by Dean-Administration and Dean-Students. | |
| 3. About future plans to improve quality | It was brought to the notice of the meeting that planning for the quality improvement is necessary.<br>Thorough discussion was made and it was unanimously resolved to constitute following committee to prepare plan to improve quality<br>1) Dr. P. M. Pawar- Co-ordinator<br>2) Dr. Sridevi Dileep- Member<br>3) Dr. P. S. Kachre- Member<br>4) Dr. S. M. Mukane- Member<br>5) Dr. M. K. Raul- Member<br>6) Prof. S. R. Gawali- Member<br>This committee will submit its report on or before 15/06/2017 to the IQAC | Draft plan is prepared. |
| 4. Issues with the permission of the chair. | There being no further issues to discuss, meeting concluded with vote of thanks to the chair and all present. | |

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering
Pandharpur

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**Date of meeting in which ATR is presented: 24.09.2017**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 10-06-2017

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 1.Comfirmation of minutes of last meeting | The minutes of the last meeting held on 29/01/2017 were read and unanimously confirmed. | .... |
| 2. Review of work done in respect of function of IQAC | Review of work done in respect of function of IQAC was taken in the meeting which was in respect of following<br>i) FDP program for teaching and non-teaching staff<br>ii) List of faculty member doing higher education<br>iii) Discipline during the functions<br>iv) Visits of students and staff members to R&D activities<br>v) Result analysis<br>vi) Preparation of annual quality assurance report.<br>Meeting unanimously took the note of the above | .... |
| 3.About future plan to improve quality | Future plans for improvement of quality were discussed in the meeting.<br>Thorough discussion was made and it was unanimously resolved as follow:<br>i) Google based document repository system be kept in implementing<br>ii) Subject numerical be prepared in excel sheet to change forms of the numerical easily.<br>iii) To bring awareness and implementation about academic audit, session of Dr. N. B. Pawar be arranged<br>iv) Before arranging FDP, training need analysis be carried out.<br>v) Communication improvement sessions to staff members be arranged for next two month. Prof. Nagawade will be resource person for these sessions. | i) The document repository system is being implemented.<br>ii) The Subject numerical preparation by faculty in excel sheet is in progress.<br>iii) It will be planned after discussion with Dr. N. B. Pawar.<br>iv) FDP Coordinator is arranging FDPs as per the need.<br>v) Communication improvement sessions to staff members by Prof. Nagawade have been arranged. |

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| | vi) To improve quality of projects industry survey and social survey be carried out and based on that data bank of projects be created.<br>vii) HOD should make cluster wise subject slides about important concepts from that area and 2-3 days session be arranged for TE students in each semester. This session should be conducted by Prof. or Associate Prof level faculty.<br>viii) Booklet of all rules and regulations of institute be prepared for students and staff.<br>ix) Respective HOD should meet or receive their concerned company person who have come for placement on the day of placement. | vi) The activity is in progress.<br>vii) HODs have started implementation for the same.<br>viii) Preparation is in progress.<br>ix) Started implementation for the same. |
| 4.Issues with the permission of the chair | As there being no further issues to discuss, meeting concluded with vote of thanks to the chair and all present. | ….. |

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

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PANDHARPUR

**Date of meeting in which ATR is presented: 25.11.2017**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 24-09-2017

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 1.Comfirmation of minutes of last meeting | The minutes of the last meeting held on 10/6/2017 were read and unanimously confirmed. | .... |
| 2. About quality assurance activities | It was brought to notice in meeting that following quality assurance activities were carried out.<br>i. To improve communication of faculty and staff, two month communication improvement program was conducted<br>ii. Practice session of typical subject were conducted<br>iii. Along with ISE, chapter test, lab test were conducted.<br>iv. Annual technical symposium Olympus 2K17 was successfully organized on 15th and 16th Sept. 2017 for students.<br>v. Training sessions to improve the soft skills, aptitude were organized for the students.<br>vi. Group discussion, personal interview session were conducted for the students.<br>vii. Every department has inaugurated this year student association activities | Decided to continue all these activities in future also. |
| 3.About AQAR 2016-17 | It was brought to notice in meeting that after NAAC accreditation, we have to submit AQAR every year to NAAC. The AQAR for the academic year 2016-17 was put before the meeting.<br><br>Thorough discussion was and it unanimously resolved to approve the AQAR 2016-17 to send it to NAAC. | The AQAR will be submitted to NAAC after confirmation. |

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

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PANDHARPUR.

**Date of meeting in which ATR is presented: 10.03.2018**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 25-11-2017

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 1.Confirmation of the minutes of the last meeting | The minutes of the last meeting held on 24/09/2017 were read and unanimously confirmed. | .... |
| 2. About Quality Assurance Activities | It was brought to the notice of the meeting that following quality assurance activities are being carried out.<br>Backlog Session:- Backlog Session are being organized for the subject were the result are not up to the mark. The name of the subjects for backlog session is decided in the Deans and HODs meeting.<br>i) Practice Session:- Practice session for difficult subject are being arranged .These subjects are decided in the Deans and HODs meeting.<br>ii) Training:- Various trainings are being arranged for the students to improve their soft skill and technical skills and in turn to increase placement of student.<br>iii) HR activities:- Human Resource development training through workshops ,FDPs, STTPs, Seminars are being provided to teaching and non-teaching staff members.<br>iv) Feedback Sessions:- 3 different kinds of feedback are collected from the students and action is taken on the same. These feedbacks are as follows:-<br>a)Feedback taken by Dean Academics once in semester.<br>b) Feedback taken by from CR and 2-3 students of the class.<br>c) Suggestion box opened weekly.<br>v) Result Analysis is being carried out every semester and accordingly results target are set. Meeting unanimously took the note of the above and accorded its approval | Decided to continue all these activities in future also |
| 3 .Issues with the permission of the chair. | | -- |
| 3.1 About Quality Benchmarks /Parameters | It was brought to the notice of the meeting that we have quality benchmarks or Parameters for various academic and administrative activities in the institute. | -- |

<table>
<tr><th>Item No.</th><th>Resolution</th><th>Action Taken/Status</th></tr>
<tr><td></td><td>Thorough discussion was made and it was unanimously resolved as follows:-<br>a) Following subcommittee for compilation of existing quality benchmarks or Parameters and suggesting additional quality benchmarks or Parameters for academic, administrative student activities etc.
<table>
<tr><th>Sr.No.</th><th>Name</th><th>Description</th></tr>
<tr><td>1</td><td>Dr.S. M. Mukane</td><td>NAAC Co-ordinator</td></tr>
<tr><td>2</td><td>Dr.P.M.Pawar</td><td>Dean Academics</td></tr>
<tr><td>3</td><td>Dr.M.K.Raul</td><td>Dean TPII</td></tr>
<tr><td>4</td><td>Dr.A.S.Vibhute</td><td>HOD ENTC</td></tr>
<tr><td>5</td><td>Dr.P.S.Kachare</td><td>HOD Mech</td></tr>
</table>
b) This committee submit its report on or before 31/01/2018 to the Principal.</td><td>1. Subcommittee constituted through the office order NO.: COEPR/2017-18/O.O/60 dated 29/11/17<br>2. Subcommittee submitted its report on 31/1/2018.</td></tr>
<tr><td>3.2 About Quality culture in the Institute</td><td>It was brought to the notice of the meeting that we have been taking efforts on different fronts for building and maintain quality culture in the institute as per details given below:-<br>a) Academic Front:-<br>PPPE and related circulars are the guiding documents for maintaining quality culture in teaching learning process, Student and staff development, co-curricular and extracurricular activity.<br>b) Admission Front:-<br>System Manual, HR Manual, and Related circulars are guiding documents in maintaining quality culture on admission front.<br>The above documents were put before the meeting. Meeting unanimously took the note of the above.</td><td>----</td></tr>
</table>

S Mukane

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

B. Pange

PRINCIPAL,
College of Engineering,
PANDHARPUR.

**Date of meeting in which ATR is presented: 28.07.2018**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 10-03-2018

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 1.Comfirmation of minutes of last meeting | The minutes of the last meeting held on 25/11/2017 was read and unanimously confirmed. | .... |
| 2. About quality benchmarks/parameters | It was brought to the notice of the meeting a committee was constituted through office order no COEPR/2017-18/00/60(A) dated 29/11/2017 to compile the existing quality benchmarks/parameters also suggesting additional parameters for academic, administrative, students activities etc. The intern report of the committee was put before the meeting.<br>Thorough discussion was made and it was unanimously resolved that committee should prepare and submit report in due time based on background, existing parameters and new benchmarks or parameters suggested along with set targets. | Revision in respect of document related to quality benchmark in progress. |
| 3.About feedback from stakeholders | It was brought to notice of the meeting that feedback are being collected regularly from stakeholder namely students, parents, alumni and employers. The details report about feedback given by these stakeholders and ATR on the given feedback was put before the meeting.<br>Thorough discussion was made and it was unanimously resolved that copy of ATR be given to the concerned students/ parents/ alumni/ employers as the case may be. | The implementation is being started. |
| 4.About workshops, FDP, STTP & Seminars | The department wise report on conducted workshops, FDP, STTP & Seminars was put before the meeting. meeting unanimously took the notice of the same.<br>Thorough discussion was made and it was unanimously resolved that Dean Student will prepare a plan of student activities every year in consultation with respective HOD. | Draft plan is prepared by Dean students in consultation with HODs. |

| Item No. | Resolution | Action Taken/Status |
|---|---|---|
| 5.About our best practices | It was brought to notice of the meeting that institutes implements following best practices<br>1. PPPE<br>2. CIP<br>3. Principal Darbar<br>4. Night study session<br>5. Practices session<br>6. Proctor session<br>7. Earn and learn scheme<br>8. Cash prizes for the meritorious students<br>9. Swachha bharat abhiyan<br>10. Pranayam session<br>11. Conducting function on important days instead of giving holiday.<br>12. The related documents, circulars were also put before the meeting. Meeting unanimously took the note of the same. | ..... |
| 6.About Tutelbot institutes management system[TIMS] | It was brought to notice of the meeting that institution in association with our alumni Mr. Samudragupta Talukdar is further developing Tutelbot institutes management system (TIMS). It has different modules right from Pre admission management to Alumni management. Following modules are present in the system<br>1. Pre admission management.<br>2. Academic management.<br>3. Time table management<br>4. Admission management.<br>5. Leave management<br>6. HR management<br>7. Financial management<br>8. Inventory management<br>9. Hostel management<br>10. These TIMS software is being used for most of the modules.<br>Meeting unanimously took the note of the above and expressed satisfaction over the development of the software. | ..... |
| 7 Issues with the permission of the chair. | As there being no further issues to discuss, meeting concluded with vote of thanks to the chair and all present. | ..... |

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

PRINCIPAL,
College of Engineering,
PANDHARPUR

# SVERI's College of Engineering, Pandharpur
## Internal Quality Assurance Cell Committee Meeting dated 28/07/2018
## Action Taken Report

| Item No | Resolution | Action Taken /Status |
|---|---|---|
| 1. Confirmation of the Minutes of the last meeting. | The minutes of last meeting held on 10/03/2018 were read and unanimously confirmed with modification in Resolution No.04 which read as " Thorough discussion was made and it was unanimously resolved that Dean Academic will prepare plan of workshop, Seminars, FDPs and STTPs every year in consultation with respective HODs" | ---- |
| 2. About Quality benchmarks/ Parameters. | Thorough discussion was made and it was unanimously resolved to sanction extension to the committee to complete its work. However report be submitted in next meeting. | Report has been submitted. |
| 3. About ISO Manuals. | Thorough discussion was made and it was unanimously resolved as follows:<br>i) All the ISO Manuals be revised. The revision work be completed in every respect and accordingly the updated manual be put in the next meeting. | The revision of ISO manuals is being done in consultation with the consultancy firm 'Q Concepts. The work is still in progress. |
| | ii) Prof. Miss. M. M. Bhore will present a session on these manuals to all staff in the induction programme to be conducted at the start of every semester. | It will be planned for upcoming semester during induction programme (General Meeting of Staff) |



Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

| Item No | Resolution | Action Taken /Status |
|---|---|---|
| 4. About Workshops, Seminars, FDPs & STTPs for staff. | Thorough discussion was made and it was unanimously resolved as follows:<br>i) Activity plan should be yearly.<br><br>ii) MBA department should arrange for staff development activity to our non-teaching staff. | **ENTC Dept:-**<br>Two One Week workshops are planned in the month of Nov-2018 and April-2019. Proposals are submitted to Solapur University, Solapur.<br>**Mech Dept.:-**<br>One day workshop on "Application of advanced Optimization Techniques in the Field of Mechanical Engineering" is planned.<br><br>Training scheduled in the month of November 2018 by Dr. A.M. Gurav, Dr. U. M. Deshmukh |
| 5. About Student support and progression | Meeting unanimously took the note of the same. | ---- |
| **6.** Issues with the Permission of the Chair.<br>6 (i) About NPTEL Courses. | Thorough discussion was made and it was unanimously resolved to recommend the BOG that Institute should contribute 50% of the exam fee per course per person. | Accordingly, it was recommended to BOG |



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| Item No | Resolution | Action Taken /Status |
|---|---|---|
| 6 (ii)About NAAC | Thorough discussion was made and it was unanimously resolved as follows:<br>a) Prof. S.N. Kulkarni will work as a NAAC Co-ordinator in place of Prof. Dr. S. M. Mukane with immediate effect.<br>b) Prof. S. N. Kulkarni will prepare gap analysis for NAAC Accreditation.<br>c) Prof. S. N. Kulkarni will also look after infrastructure related work. | Revised office order was made.<br><br>Gap Analysis has been made. |
| 6 (iii) About induction programme to FE students. | Thorough discussion was made and it was unanimously resolved that Dean Students' will prepare plan of 30 Hours Induction Programme to every FE Students and execute it immediately after the FE admission process. | From 02 August to 06 August 2018, the induction program of 30 Hours was conducted successfully. |

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COLLEGE OF ENGINEERING PANDHARPUR

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**SVERI's College of Engineering, Pandharpur**
**Internal Quality Assurance Cell Committee Meeting dated 22/09/2018**
**Action Taken Report**

| Item No. | Resolution | ATR /Status |
|---|---|---|
| 1. Confirmation of the minutes of the last meeting. | The minutes of the last meeting held on 28/07/2018 were read and unanimously confirmed with following modifications:<br>1) Resolution No.1 Item No.1 be read as "the minutes of the last meeting held 28/07/2018 were read and unanimously confirmed with modification in Resolution No.1 as "Thorough discussion was made, and it was unanimously resolved that Dean Academics shall prepare plan of FDPs and Dean R & D shall prepare plan of Workshops, Seminars, STTPs, etc. every year in consultation with respective HODs". | --- |
| 2. About submission of Annual Quality Assurance Report (AQAR) for A.Y. 2017-18 | Meeting took the note of same. | --- |
| 3. About ISO manuals. | Thorough discussion was made and it was unanimously resolved that Prof. Ms. M. M. Bhore shall ensure that all the ISO Manuals be revised on or before 31/10/2018. | As per ISO 9001:2018 ISO manuals, except, Quality manual are obsolete, but as per our policy they have been maintained. |

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SVERI'S College of Engineering,
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| Item No. | Resolution | ATR /Status |
|---|---|---|
| 4. About future plans to improve the quality. | Thorough discussion was made and it was unanimously resolved to approve the above and ensure that the uniformity be maintained by each departments in respect of above. | **Mech Engg. Dept.:**<br>**1.** Industry survey for improving quality projects is done. Accordingly faculty visited to various industries.<br>**2.** The different groups were formed in department like Production, Design & Thermal.<br>**3.** GroupWise subject slides were prepared for the important concepts of projects.<br>**4.** There slides were put on ftp://dae.sveri.edu/ Mech/UG/2018-19/SEM-II/Project/<br>**5.** Department got 10 industry sponsored projects.<br>**E&TC Engg.Dept.:**<br>Department got industry sponsored projects from MASSIA.<br>**CSE Dept.:**<br>9 Sponsored Projects have fetched through industry interaction.<br>**Civil Engg. Dept:-**<br>The discussion with various industries was made for the same during the guest lecture sessions. |

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
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<table>
<tr><th>Item No.</th><th>Resolution</th><th>ATR /Status</th></tr>
<tr><td>5. Issues with the permission of the Chair.</td><td>---</td><td>---</td></tr>
<tr><td>5. (1) About Quality Benchmarks/Parameters</td><td>Thorough discussion was made and it was unanimously resolved that the Sub-Committee will submit a revised report on or before 31/10/2018.</td><td>The revised report has been submitted.</td></tr>
<tr><td>5. (2) About Changes in IQAC Committee Members</td><td>Thorough discussion was made and it was unanimously resolved to make the replacements as per the details given below:
<table>
<tr><th>Sr. No.</th><th>Name of Previous Member</th><th>Name of Newly appointed Member</th><th>Designation</th><th>Representation from</th></tr>
<tr><td>1.</td><td>Prof. Dr. S. M. Mukane Dean Administration</td><td>Dr. R. R. Gidde Dean Administration</td><td>Member</td><td>One of the Senior Teacher as the Co-ordinator of IQAC</td></tr>
<tr><td>2.</td><td>Dr.SrideviDileepan R & D</td><td>Dr. Mrs. M. M. Patil Dean R &D</td><td>Member</td><td>A few Senior Administrative Officers</td></tr>
<tr><td>3.</td><td>Prof. C. C. Patange HOD MBA</td><td>Prof. K. B. Patil HOD MBA</td><td>Member</td><td>A few Senior Administrative Officers</td></tr>
<tr><td>4.</td><td>Prof. S. L. Utpat</td><td>Prof. S. Y. Salunkhe</td><td>Member</td><td>Three to Eight teachers</td></tr>
<tr><td>5.</td><td>Dr. Mrs. M. M. Patil Dean R & D</td><td>Prof. Mrs. D. A. Tamboli</td><td>Member</td><td>Three to Eight teachers</td></tr>
<tr><td>6.</td><td>Prof. K. B. Patil</td><td>Prof. A. M. Dyade</td><td>Member</td><td>Three to Eight teachers</td></tr>
</table></td><td>---</td></tr>
</table>

Coordinator
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| Item No. | Resolution | ATR /Status |
|---|---|---|
| 5. (3) About Online Feedback. | Thorough discussion was made, and it was unanimously resolved also to go for Online Feedback and further resolved as follows:<br>a) HOD should make available the online feedback to all the subject teachers.<br>b) The concerned HODs should make the analysis and give suggestions to the concerned subject teacher wherever improvement is required.<br>c) The following committee should prepare structured formats for all Feedback Forms viz. Alumni Feedback Form, Parent Feedback Form, Programme End Survey, Course End Survey and Employer Survey.<br>Dr. R. R. Gidde (Chairman)<br>Dr. S. S. Wangikar<br>(Member Secretary)<br>Dr. P. M. Pawar (Member)<br>Dr. Mrs. M. M. Patil (Member)<br>Dr. A. S. Vibhute (Member)<br>Prof. A. M. Dyade (Member)<br>This committee should submit its report on or before 30/11/2018 which be put before the next meeting of IQAC. | a) Online feedback is made available to every subject teacher.<br>b) Analysis was made and communicated to all concerned subject teacher.<br>c) Report has been submitted. |
| 5. (4) About suggestion given by NAAC on Quality Improvement. | Thorough discussion was made and it was unanimously resolved as follows:<br>a) HOD should come out with Circular to improve upon the suggestions given by NAAC Committee during their visit.<br>b) Review about NAAC Committee Report be taken in respect of Gap Analysis. | Action plans have been submitted. |

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**SVERI's College of Engineering, Pandharpur**
**Internal Quality Assurance Cell Committee Meeting dated 11/02/2019**
**Action Taken Report**

| Item No | Resolution | Action Taken /Status |
|---|---|---|
| 1) Confirmation of the Minutes of the last meeting | The minutes of the last meeting held on 22/09/2018 were read and unanimously confirmed. | ---- |
| 2) Review of work done in respect of functions of IQAC. | The meeting took the note of the same. | ---- |
| 3) About NAAC | Thorough discussion was made and it was resolved that the HODs, Deans and NAAC Coordinator should work to overcome gap, weaknesses and also decided to work on recommendations. | Accordingly, work to overcome is in process. |
| 4) About Quality Benchmark/ Parameters | Thorough discussion was made and it was unanimously resolved as follows:<br>1) As Prof. S. N. Kulkarni has left the institute, in his place, Dr. S. S. Wangikar is going to replace him as a member being NAAC Coordinator.<br>2) The sub-committee should submit the revised report on quality benchmarks on or before 20th February 2019. | The revised report has been submitted. |
| 5) About Workshops, Seminars, FDPs/ STTPs. | The meeting took the note of the same. | ---- |
| 6) About ISO Manuals. | The meeting took the note of the same and approved the quality manual. | ---- |
| 7) Issues with the permission of the Chair. | ---- | ---- |
| 7 (1) About Suggesting Formats for Feed Backs Forms | Thorough discussion was made and it was unanimously resolved as follows:<br>1. The committee should conduct the meeting and submit the report on or before 25th February 2019.<br>2. HODs should ensure that appropriate steps can be taken based on the feedback from the student. | The committee has submitted the report. |



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| Item No | Resolution | Action Taken /Status |
|---|---|---|
| 7(2) About Seed Money Policy & Mechanism. | Thorough discussion was made and it was unanimously resolved as follows:<br>1. The following committee is formed for deciding the Policy and Mechanism for Seed Money Proposal.<br>1. Ms. D. A. Tamboli (Chairman)<br>2. Dr. M. K. Raul (Member)<br>3. Dr. A. S. Vibhute (Member)<br>4. Dr. P. S. Kachare (Member)<br>5. Dr. A. B. Shinde (Member)<br>6. Dr. S. S. Wangikar (Member)<br>2. The above mentioned committee should submit the Report of Policy and Mechanism on or before 25th February 2019. | Committee has been constituted & the report for policy & mechanism has been submitted. |
| 7(3) About Adding Members in IQAC Committee. | The meeting took the note of the same and resolved as follows:<br>• Dr. A. B. Shinde, Assistant Professor and New Dean R & D in Mechanical Engineering Department is going to replace Dr. Mrs. M. M. Patil as a member of IQAC Committee. | ---- |
| 7(4) About Status Report of Sponsored Projects. | Thorough discussion was made and it was unanimously resolved as follows:<br>1. The Individual Project Reports be prepared by the Guides of respective students who are having sponsored projects.<br>2. The detailed summary containing status of each sponsored project be prepared by the HODs.<br>3. The status report should be submitted on or before 20th February 2019 to Dean TPII, Dean R &D and Dean Administration. | a) The status report submitted on 16th February 2019 to Dean TPII, Dean R &D and Dean Administration.<br>b) All projects sponsored by MASSIA are successfully completed. |

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**SVERI's College of Engineering, Pandharpur**
**Internal Quality Assurance Cell Committee Meeting dated 27/04/2019**
**Action Taken Report**

| Item No | Resolution | Action Taken /Status |
|---|---|---|
| 1) Confirmation of the Minutes of the last meeting | The minutes of the last meeting held on 11/02/2018 were read and unanimously confirmed. | ---- |
| 2) About Review of AQARs for A.Y. 2015-16, 2016-17 and 2017-18 | Meeting took the note of the same. | |
| 3) About submission of AQAR for A.Y. 2018-19 | Meeting took note of the same. The AQAR for the A.Y. 2018-19 will be ready on or before 30th September 2019 and it will be submitted in October 2019. | It has been made ready. |
| 4) About NAAC preparation for 2nd cycle | Thorough was made and it was unanimously resolved as follows: 1) All criterion coordinators will submit the NAAC related Excel Sheets Quantitative Matrices $(Q_n)_m$ as per the requirement on or before 15/06/2019. | The draft NAAC related Excel Sheets Quantitative Matrices (Qn)m were prepared & submitted by all Criterion Coordinators to IQAC Coordinators. |
| | 2) All criterion coordinators will submit the NAAC related data Qualitative Matrices $(Q_l)_m$ as per the requirement on or before 15/06/2019. | The work related to Qualitative Matrices (Ql)m is in progress. |
| | 3) The Institutional Information for Quality Assessment (IIQA) is required to be submitted in April 2020. | --- |
| | 4) The revised Quality Benchmarks will be prepared by NAAC coordinator on or before 20/05/2019 | i) The revised Quality Benchmarks (QBs) are ready. |



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SVERI'S College of Engineering,
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| Item No | Resolution | Action Taken /Status |
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| 5) About Review of R & D, Consultancy and Extension activities | Meeting took the note of the same and further resolved as follows:<br>1) Brochure should consist of all information including details of the each Machine(s)/Equipment(s)/ Apparatus(s), applications of each machine, scope in academics, etc. regarding R & D facilities at our SVERI be prepared by Dean R & D up to 31/05/2019.<br>2) HODs should commercialize minimum one product per year. | Brochure has been prepared. |
| 6) About Infrastructure and learning resources | Meeting took the note of the same and further resolved as follows:<br>1) Writing Tablet (WACOM TABLET) one per each department be purchased. | One WACOM TABLET is available in Civil Engineering & one has been purchased for Electronics & Telecommunication Engineering. For remaining departments, the process of purchasing has been started. |
| | 2) Video Recording Camera should be purchased one per department additionally to record lectures/videos. | One camera per department is available. |
| | 3) Noise Cancellation Headphones with Mike one per department should be purchased. | It is in process. |



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| 7) About Innovations & Best Practices | Meeting took the note of the above and further resolved as follows:<br>1) Best practices should include one intellectual and one infrastructure related aspect. | One patent has been filed by Electronics & Telecommunication Engineering department.<br>One day workshop on IPR has been planned for faculty members in order to motivate them in respect of filling patents. |
| | 2) Best practices shall include project based learning and exposure to R& D activities in the institute to UG students. | 1) Based on project work, research papers have been published by students in International Journal/ International Conference.<br>2) F.Y. B. Tech. students have visited R & D laboratories, RHRDF Centre and NKN Centre through Orientation program.<br>3) Civil Engineering Department organizes local site visits at various places for giving practical exposure to our students. |
| | 3) Ideas about best practices should be collected from all faculty members. | This activity is in progress. |



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| | 4) Each department should arrange/conduct Gram Visit/related program for staff members and students to address societal issue(s) in the nearby village(s). | Mech Dept.: It is planned in current academic year.<br>Civil Dept.:<br>We have conducted four Gram Visits in last Semester for faculty members and students as well.<br>Further, we have planned 12 Gram Visits.<br>E&TC. Dept.- It is Planned in current academic year.<br>CSE Dept.<br>Societal work – Dept. faculty with students visited nearby 3 schools and conducted awareness sessions on:<br>a) Woman Empowerment<br>b) Misuse of social media<br>Name of schools:<br>i) Sitaram Maharaj Mahavidyalaya, Khardi<br>ii) Dawlatrao Vidyalaya, Kasegaon<br>iii) New English School, Anawali |
| 8) Issue with the permission of the Chair | ---- | ---- |
| 8(1) About Vision, Mission, PEOs and PSOs statements of Electrical Engineering Department | Meeting took the note of the same and recommended the same to put before the Board of Governors for its approval. | The Vision, Mission, PEOs and PSOs statements of Electrical Engineering Department were put before the BOG and BOG has accorded its approval for the same. |



Coordinator
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SVERI'S College of Engineering,
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| Item No | Resolution | Action Taken /Status |
|---|---|---|
| 8(2) About Contribution of Students in Societal Activities | Meeting took the note of the above and further resolved as follows:<br>i) Every student should spend at least one day in any village for societal work as an application of technical knowledge. | **Mech. Engg. Dept.-**<br>Every student has participated in NSS activities, Green Team activities and MESA activities.<br>**E&TC Engg. Dept.-**<br>Activities have been planned in current AY 2019-20. Accordingly, the same activities have been discussed with Sarpanch of Bramhpuri.<br>**CSE Dept.:**<br>Every student has participated in NSS activities, Green Team activities and ICON activities.<br>**Civil Engg.Dept.:**<br>1) TE Civil class was divided in to three batches and sent to three villages viz. Ambe, Mundhewadi and Anawali. They have performed survey for designing the water supply system and wastewater collection system. The records of the same have been prepared.<br>2) 12 students from BE (Civil) class were involved in survey work of Gopalpur.<br>3) 05 students from BE (Civil) class performed structural audit work at Mohol.<br>4) 2 students from BE (Civil) class performed structural audit work at Ropale. |



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| Item No | Resolution | Action Taken /Status |
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| | ii) Every student should participate in at least one activity in the tenure of four-year program. | All the departments have checked status of students participation in activities & action plan has been made ready. |
| 8(3) About Students Participation in Conferences/Project Exhibitions outside Maharashtra | Meeting took the note of the same and resolved unanimously that students' participation should be increased with respect to technical events such as International Conferences, National Conferences, Project Exhibitions, etc. | **Mech. Engg. Dept.-**<br>1) 57 students participated in International Conferences, National Conferences, Project Exhibitions, and Workshops outside Maharashtra state.<br>2) Two project groups published papers in SCOPUS Indexed Journal and Six project groups published papers in PEER Reviewed Journal.<br>**E&TC. Engg. Dept.-**<br>Project planning has been scheduled accordingly for AY 2019-20.<br>**CSE Dept.: –**<br>299 students participated in International Conferences, National Conferences, Project Exhibitions, and Workshops.<br>Event Participation Outside State: 7 Participated And 6 Winners<br>**Civil Engg. Dept.:**<br>In last semester, total 28 students have participated in International Conferences.<br>This semester, we are planning to increase the number. |



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| Item No | Resolution | Action Taken /Status |
|---|---|---|
| 8(4) About involvement of MBA students for Marketing | Thorough discussion was made and it was resolved unanimously that the MBA students are required to be involved for marketing to enhance their marketing skills. | This year we have planned to involve our MBA students for promotion of all institute level technical events such as Olympus. |
| 8(5) About challenging assignments for advanced learners | Thorough discussion was made and it was unanimously resolved that the challenging assignments/experiments be given to advance the students as an assignment/ lab work. | **Mech. Engg.Dept.-**<br>Prepared assignments booklet for every class as per A, B, C, D, levels. Levels B & D are expected to be solved by advanced learners.<br>B – Difficult theory questions<br>D – Difficult numerical<br>**E& TC. Engg. Dept.-**<br>Assignments are classified in ABC/ABCD categories based on difficulty level.<br>CSE Dept.: –<br>We have prepared assignments booklet for every class as per A, B, C, levels. Levels B & C are expected to be solved by advanced learners.<br>**Civil Engg. Dept.: –**<br>The assignment booklets have been prepared for every class as per the difficulty levels of questions such as A, B, C & D. |



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| Item No | Resolution | Action Taken /Status |
|---|---|---|
| 8(6) About Research and Development activities | Thorough discussion was made and it was resolved unanimously as follows:<br>1) Each department should develop minimum three products per year. | This activity is under progress. |
| | 2) Contribution in respect of research publications should be increased. | Target about publication has been set for each department |
| 8(7) About teaching and learning process | Thorough discussion was made and it was resolved as follows:<br><br>1) The participation of industry in teaching and learning process should be increased. | **Mech. Engg. Dept.-**<br>28 Expert lectures from industry persons were arranged.<br>**E&TC. Engg. Dept.-** Every course faculty prepared video lectures of respective courses.<br>CSE Dept.: 19 Expert lectures from industry persons were arranged.<br>**Civil Engg.Dept.:**<br>1) One NDT workshop was arranged for BE [Civil] class by Ultratech Cement Industry.<br>2) In the academic year 2018-19, Industry expert lectures for total 72 hours were conducted for all SE to BE classes.<br>3) In the current semester, till date 05 Industry expert lectures were conducted for all SE to BE classes.<br>4) In the academic year 2018-19, total 22 Industrial visits were conducted for all SE to BE classes.<br>5) In the current semester till date 04 Industrial visits were conducted for all SE to BE classes. |



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| Item No | Resolution | Action Taken /Status |
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| | 2) Every faculty member should prepare video lecture of two hours and upload it on YouTube on or before 30/06/2019. | Mech. Dept.- Every faculty member has recorded 2 hours video lecture.<br>ENTC. Dept.- Every course faculty prepared video lectures of respective courses.<br>CSE Dept.: Every faculty member has recorded 2 hours video lecture and uploaded on YouTube.<br>Civil Dept.: Till date, 06 faculty members have prepared video lectures and others are instructed to finish till 30th August 2019. |
| | 3) HODs should ensure that minimum two subjects per class per semester must have recorded video lectures. | **Mech. Engg. Dept.-** Department has planned to record two subjects of class S.Y. B. Tech. Div-C in Sem-I, A.Y.-2019-20.<br>**E&TC Engg.. Dept.-** Dept has planned three subjects. One per SE/TE & BE respectively and recording process is going on.<br>CSE Dept.: We have decided to record two subjects of class S.Y. B.Tech. Div-A and B.E. CSE Div-C in Sem.-I, A.Y.-2019-20.<br>**Civil Engg. Dept.:** Video Recording of two subjects has been started in this semester. |

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**Date of meeting in which ATR is presented: 21.11.2019**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 18-08-2019

| Item No. | Resolutions | Action Taken Report |
|---|---|---|
| 1. Confirmation of the minutes of the last meeting | The minutes of the last meeting held on 27/04/2019 were read and unanimously confirmed | |
| 2. About submission of AQAR for A.Y. 2018-19. | 1) Draft copy of AQAR for the A.Y. 2018-19 should be made ready on or before 30th September 2019. | Draft was presented in NAAC Committee meeting. After incorporating suggestions given by Deans & HODs, it has been modified and it will be put before IQAC meeting |
| | 2) AQAR for the A.Y. 2018-19 should be put before next IQAC meeting copy of scheduled in November 2019. | |
| 3. About NAAC preparation for 2nd cycle | 1) Quantitative Matrices (Qn)m and Qualitative Matrices (Ql)m data be modified as per the suggestions given by members of IQAC. | One Day workshop on IPR & Innovation was organized on 27/09/2019. In addition to this a session for students in respect of IPR was also organized |
| | 2) All HODs and Deans should ensure the correctness of data in respect of Quantitative Matrices (Qn)m and Qualitative Matrices (Ql)m . | |
| | 3) Under IIC, various activities for both faculty members and students required to be conducted to encourage innovation and entrepreneurship. | |
| | 4) FDP on IPR filing and its implications be arranged on or before 31th Dec. 2019. | |
| | 5) HODs should arrange minimum one extension activity per semester. | |
| 4. About Curricular Aspects (NAAC Criteria I) | 1) Criterion Coordinator should modify the data by incorporating suggestions given by IQAC members. | Documents are maintained as per SOP |
| | 2) Criterion Coordinator should refer Standard Operating Procedure (SOP) for documentation. | |
| 5. About Teaching - Learning & Evaluation (NAAC Criteria II) | Criterion Coordinator should maintain documents as per Standard Operating Procedure (SOP). | Documents are maintained as per SOP |

| Item No. | Resolutions | Action Taken Report |
|---|---|---|
| 6. About Student Support & Progression (NAAC Criteria V) | Criterion Coordinator should maintain documents in consultation with Dean Students' as per Standard Operating Procedure (SOP). | Documents are maintained as per SOP |
| 7. About NPTEL Courses | 2) Every faculty member should register (for examination) for at least one course (preferably 8 weeks or 12 weeks). | The total numbers of 81 faculty members have registered for NPTEL Courses. |
| 8 About Innovative Practices | 1) All the faculty members have to record video lectures and upload it on SVERI Tube/YouTube.<br>2) HODs should ensure about sr. no. 1 as above. | • Faculty members of ENTC, MECH, CSE and F. Y. B.Tech departments have recorded and uploaded the video lectures on SVERI Tube/YouTube.<br>• All the experienced faculty members of CIVIL and MBA departments have recorded the video lectures and uploaded as well on SVERI Tube/YouTube. And remaining faculty members from these departments will upload the video lectures.<br>• Faculty members of Electrical Engineering have planned to record video lecture from the next semester. |
| | 3) Guest/Expert lectures by industry persons be arranged to give exposure about practical applications of theoretical concepts in the curriculum. | Overall 84 lectures from industry persons have been arranged for the students to give exposure about practical applications of theoretical concepts in the curriculum. |
| | 4) User-friendly instruction manuals be prepared related to different software's available in respective departments (apart from Curriculum) for the use of students. | Sample copies of user-friendly instruction manuals have been prepared related to different software's available in CSE, MECH, ENTC, CIVIL and ELCTRICAL departments. |
| 9. Issue with the permission of the Chair | | |
| 9.(1)About arranging seminars/workshops | One-day workshop related to quality in teaching-learning process is required to be organized in this semester in order to boost quality initiatives from faculty members in teaching learning process. | It will be organized at Institute level in December 2019. |

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**Date on which ATR is presented: 22.02.2020**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 21-11-2019

| Item No. | Resolutions | Action Taken Report |
|---|---|---|
| 1) Confirmation of the minutes of the last meeting | The minutes of the last meeting held on 18/08/2019 were read and confirmed unanimously. | --- |
| 2) About approval of AQAR for A.Y. 2018-19 | Meeting took note of the same and accorded its approval for AQAR for A.Y. 2018-19. | AQAR submitted to NAAC on 30/12/2019. |
| 3) About academic plan for Sem.-II of A.Y. 2019-20 | Meeting took note of the same and approved. | All departments have prepared departmental academic plan for the SEM-II and departments are implementing the same. |
| 4) About action taken report on Academic and Administrative Audit (AAA) for A.Y. 2018-19 | 1) HODs should ensure corrective actions in respect of suggestions given by AAA Auditors. | HODs are ensuring corrective actions based on suggestions given by AAA Auditors. |
| | 2) HODs should aspire more number of sponsored and interdisciplinary projects. | HODs of MECH and ENTC have fetched the sponsored and interdisciplinary projects. |
| 5) About planning of one-month Industrial Internship for faculty members | 1) Faculty members those who are deputed for one month industrial training should submit report (minimum 25 pages). | Faculty members those who have undergone industrial training have submitted reports. |
| | 2) Faculty members should also fetch minimum two sponsored projects from the company in which they have undergone industrial training. | Mech: Mr.V.R.Chavan brought two problems while Mr. B. T.Gadade brought three problems from their respective industries.<br>E&TC: It is in process.<br>CSE: Two sponsored projects fetched from the company.<br>Civil: It is in process. |
| | 3) Faculty members should take regular follow-up for getting placement drive of the same company at our campus. | Faculty members are taking regular follow-up for getting placement drive of the same company at our campus. |

| Item No. | Resolutions | Action Taken Report |
|---|---|---|
| 6) About review of placement of students and planning for training programmes. | Meeting took note of the same and appreciated efforts taken by Dr. M. K. Raul and his team. | ---- |
| 7) About planning of certificate courses for students during Sem.- II of A.Y. 2019-20. | Meeting took note of the same and further resolved unanimously that minimum one certificate course per semester should be conducted by all departments. HODs should ensure documentation related to certificate courses as per Standard Operating Procedure (NAAC SOP). | HODs are ensuring documentation related to certificate courses as per Standard Operating Procedure (SOP) of NAAC. |
| 8) About review of preparation for 2nd cycle of NAAC. | 1) Best practices should be identified and related documentation should be made ready on or before 31/01/2020. | Best Practices have been identified & detailed documentation as per the NAAC format has been uploaded on institute website on 26/12/2019. |
| | 2) Minimum two faculty members from each department should apply for award/recognition at State/National/International level from Government or any other recognized body. | Faculty members have applied for award/recognition. |
| | 3) Every faculty member should publish minimum one paper in the UGC-CARE approved journals per semester and one book/book chapter per year as well.<br>4) Every faculty member should present/publish one paper per year in conference with proceedings having ISBN number. | Some faculty members have published papers in SCI indexed and other UGC-CARE approved journal and the remaining faculty members are preparing their manuscripts.<br>Faculty members have presented and published papers in conference with proceedings having ISBN number. |

| Item No. | Resolutions | Action Taken Report |
|---|---|---|
| | 5) HODs should ensure about conduction of minimum 40 Hrs expert's lectures per class per semester. | HODs are ensuring that 40 Hrs of expert lectures conducted per department. |
| | 6) HODs should arrange bridge courses from industry experts. | Bridge courses from industry experts have arranged and conducted. |
| | 7) Each final year project group should publish one paper in UGC-CARE approved journal. HODs should ensure the same. | Few project groups of Mechanical and Civil engineering departments have published UGC-CARE approved journal. |
| 9) Issues with the permission of the Chair. | --- | --- |
| 9(1) Motivating the students for research activities | 1. HODs should conduct sessions for motivating the students for research activities and a report of the same should be submitted to Dean (R&D). | HODs have conducted sessions for motivating the students for research activities. |
| | 2. As an outcome of the above activity, HODs should ensure students participation in different technical events. HODs should present the status of students participation in such events for AY 2019-20 in next IQAC meeting. | Students are participating in different technical events. |
| 9(2) Purchase of software for checking plagiarism | Thorough discussion was made and it was resolved unanimously that a plagiarism checking software with additional features of grammar check should be purchased in order to boost research facilities. | Plagiarism checking software with additional features of grammar check will be purchased in April, 2020. |
| 9(3) About linkages with local sugar mills | 1) More number of activities should be conducted in collaboration with the Sugar mills. | Guest Lecture by Electrical Engineer from Jakraya Sugar for S.Y. BTech. Mechanical students on 25/01/2020. |
| | 2) Mechanical Engineering Department should form one more linkage with nearby sugar mill. | Efforts are being taken to make MOU with Jay Hind Sugar Industry, Achegaon, Tal: South Solapur. |

| Item No. | Resolutions | Action Taken Report |
|---|---|---|
| 9(4) About strengthening alumni interaction | Thorough discussion was made and it was resolved unanimously that more number of expert lectures, bridge courses & career guidance sessions should be arranged through alumni. | HODs are giving more focus on arranging expert lectures, bridge courses & career guidance sessions. |
| 9(5) About conducting Green Audit and Energy audit | Thorough discussion was made and it was unanimously decided that institute should conduct green and energy audit before 15th March 2020. | Committees are constituted for carrying out Green Audit and Energy audit. The Audits will be conducted before 15th March 2020. |
| 9(6) About perspective plan Perspective plan is designed and continuous follow up in respect of progress is being taken. | Meeting took the note of the same and further resolved unanimously that a report related to follow up in respect of progress according to perspective plan should be presented in next IQAC meeting. | A continuous follow-up is being taken to ensure completion of work in accordance to perspective plan. |
| 9(7) About collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research, etc. | 1.Each department should take minimum one initiative for student exchange and faculty exchange. | Initiatives are being taken in respect of student exchange and faculty exchange with industries/institutes. |
| | 2.Each department should send few students for internship programs organized by reputed institutions/industries/any other related firms. | Efforts are being made on this front. |
| | 3.Each department should enhance the research collaboration with other reputed institutions/industries and as an outcome of research collaboration, papers in UGC-CARE approved journals should be published. | Efforts are being made on enhancing the research collaboration with other reputed institutions/industries. |

| Item No. | Resolutions | Action Taken Report |
|---|---|---|
| 9(8) About organizing more number of seminars/workshops on IPR, Methodologies in Quality teaching learning | Meeting took note of the same and it was further resolved unanimously that more number of seminars/workshops on IPR, methodologies in Quality teaching learning should be organized. | Two workshops have been organized as given below:<br>1.One week FDP on "Enhancing Teaching skills" from 26/12/2019 to 31/12/2019.<br>2."A one Day workshop on " Guidance on Academic process under Margadarshak scheme" on 12/02/2020.<br>Following workshops have been organized in March /April 2020:<br>1.Workshop on IPR -March 2020<br>2. Effective Teaching Learning Methods- April 2020. |
| 9(9) About publicizing the Institute's Expertise in specific areas | Meeting took note of the same and further resolved unanimously that Institute's expertise in specific areas should be uploaded on institute website up to 31st January 2020. | Institute's Expertise in specific areas is ready & will be uploaded on institute website up to 20th March 2020. |
| 9 (10) About organizing professional development/administrative training programs for non-teaching staff. | Meeting took note of the same and further resolved unanimously that more number of programs should be arranged for non-teaching staff. | Programs will be arranged. |
| 9(11) About organizing programs for promoting gender equity | Meeting took note of the same and further resolved unanimously that more number of programs should be arranged related to gender and equity especially related to women empowerment, safety, etc. | A session on the Women Empowerment has been arranged related to gender and equity. Ex-President of Solapur Z.P., Dr. Nishigandha Kolhe has delivered session on Women Empowerment. |
| 9(12) About organizing programs related to health and hygiene | Meeting took note of the same and further resolved unanimously that more number of programs should be arranged related to health and hygiene. | A program on health and hygiene was arranged. |

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COLLEGE OF ENGINEERING PANDHARPUR

PRINCIPAL,
College of Engineering,
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**Date of meeting in which ATR is presented: 27.06.2020**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 22-02-2020

| Item No. | Resolutions | Action Taken Report |
|---|---|---|
| 1)Confirmation of the minutes of the last meeting | The minutes of the last meeting held on 21/11/2019 were read and confirmed unanimously. | Minutes Confirmed |
| 2) About Review of Academic Activities of Semester-II for A.Y.2019-2020 | Meeting took note of the same and resolved unanimously that HODs should present report about academic activities conducted in their department as per the departmental academic calendar. | All the departments have followed the academic calendar up to 15/03/2020 and further activities have been re-scheduled and conducted as a result of influence of COVID-19. |
| 3) About Review of Placement of Students | Meeting took note of the above and further resolved unanimously that more efforts should be taken in order to increase the average package of the students. | Following initiatives has been started for improving avg package.<br>1- Advanced Technical Training for TE students<br>2- Aptitude Training for SE Students<br>3- Training and Placement Strategy Committee has constituted for taking TP cell to new heights. |
| 4) About Review of Certificate Courses for Students during Semester- II of A.Y. 2019-2020 | Meeting took note of the same and further resolved unanimously that HODs should ensure proper documentation related to certificate courses. | HODs have prepared proper documentation related to certificate courses in respect of their respective department. |
| 5) About Review of Innovative Teaching Learning Practices | Meeting took note of the above and it was resolved unanimously that HODs should ensure proper documentation related to the said Innovative Teaching Learning Practices. | HODs have prepared proper documentation related to Innovative Teaching Learning Practices. |
| 6) About Review of Research Activities | Meeting took note of the above and expressed satisfaction for the same. | --- |

| Item No. | Resolutions | Action Taken Report |
|---|---|---|
| 7) About Collaborative Quality Initiatives with Other Institution(s) | Thorough discussion was made and it was resolved unanimously that HODs should enhance collaborative initiatives through expert lectures, project work, collaborative research work, etc. | HODs are enhancing collaborative initiatives through expert lectures, project work and collaborative research work.. |
| 8) About Organizing Programs for Gender Sensitization, Health & Hygiene | Meeting took note of the above and expressed satisfaction for the same. | ---- |
| 9) About Review of Preparation for 2nd Cycle of NAAC | The meeting took note of the above and expressed satisfaction on progress of work till date and further, it was unanimously recommended to complete the remaining work by 15/04/2020. | Due to lockdown work related to 2nd Cycle of NAAC is not completed up to 15/04/2020. Also, NAAC has extended the validity period of Accreditation by 6 months. |
| 10) Issues with the permission of the Chair | There being no further issue to discuss, the meeting concluded with vote of thanks to the chair and all present. | --- |

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**Date of meeting in which ATR is presented: 06-09-2020**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 27-06-2020

| Item No. | Resolutions/Action Points | Action Taken |
|---|---|---|
| 1) Confirmation of the Minutes of the last meeting. | The minutes of the last meeting held on 22/02/2018 were read and unanimously confirmed with the modifications.<br>a) Resolution No. 2 for Item No. 2 be read as " the review of academic activities of Semester-II for A.Y.2019-2020 was taken in the meeting and it was unanimously resolved that HODs should prepare the Departmental Academic Calendar of their respective department every year and include all the departmental activities to be conducted during that year." | All departments have prepared department Academic Calendars of their respective department & Implementation is going on. |
| | b) Resolution No. 3 for Item No. 3 be read as "Meeting took note of the above summary of placement of A.Y.2019-2020 and further resolved unanimously that more efforts should be taken by Dean TPII & his team to increase the average package of the students." | Dean TPII and his team are taking efforts to increase in average package. |
| 2) About Planning of Academic Activities Semester-I of A.Y.2020-2021. | Meeting took note of the same and felt satisfaction and further resolved to continue the practice of preparing Departmental Academic Calendar every year and also informed HODs to submit the final draft of Departmental Academic Calendar of their department on or before 15/07/2020 to Dean Administration. | All departments except F.Y.B.Tech. have prepared academic calendar & submitted in time. |

<table>
<tr><th>Item No.</th><th>Resolutions/Action Points</th><th>Action Taken</th></tr>
<tr><td>3) About Criteria wise Work Completion Status for NAAC.</td><td>Meeting took note of the same and unanimously resolved to accelerate Criteria wise work of 2nd Cycle of NAAC and complete the remaining work on or before 15/07/2020.</td><td>1) IIQA report is ready in all respect.<br>2) Average work completion for all criteria is about 90%.</td></tr>
<tr><td rowspan="2">4) Issues with the permission of the Chair.<br>4) (1) About Collaborative initiatives with Organizations/ Industries</td><td>Thorough discussion was made and it was unanimously resolved as follows:<br>1) Department should arrange expert lectures from the institutes/industries having MoUs with us.</td><td>No. of expert lectures arranged from the institutes/industries having MoUs with us for the A.Y. 2020-21 till date.
<table>
<tr><th>Sr. No.</th><th>Dept.</th><th>No.</th></tr>
<tr><td>1.</td><td>Mech.</td><td>06</td></tr>
<tr><td>2.</td><td>E&TC</td><td>02</td></tr>
<tr><td>3.</td><td>CSE</td><td>02</td></tr>
<tr><td>4.</td><td>Civil</td><td>05</td></tr>
<tr><td>5.</td><td>Elect</td><td>00</td></tr>
<tr><td>6.</td><td>F.Y.B.Tech.</td><td>00</td></tr>
<tr><td>7.</td><td>M.B.A</td><td>02</td></tr>
</table></td></tr>
<tr><td>2) Faculty members should do joint research with the people from other institutes/industries having MoUs with us and publish jointly research papers in the conferences/journals.</td><td>Faculty members are publishing papers in collaboration with other institutes and industry.</td></tr>
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**Date of meeting in which ATR is presented: 29.11.2020**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 06-09-2020

| Item No. | Resolutions/Action Points | Action Taken |
|---|---|---|
| 1) Confirmation of the Minutes of the last meeting. | The minutes of the last meeting held on 27/06/2020 were read and confirmed unanimously. | --- |
| 2) About Action Taken Report on resolutions passed in the last meeting held on Saturday, 27/06/2020. | The meeting took note of the action taken report and expressed satisfaction wherever the actions are completed. The committee informed the concern to take rigorous follow-up and complete the tasks as early as possible where actions related to items are in progress. | Tasks those were incomplete are completed in time. |
| 3) About Review of preparation for 2nd Cycle of NAAC. | Meeting took note of the same and unanimously resolved to complete Criteria wise work of 2nd Cycle of NAAC on or before 16/09/2020. | • 90 to 95 % work completed.<br>• Institutional Information for Quality Assessment (IIQA) is ready and submission will be started in the 1st week of December 2020. |
| 4) About Research & Extension Activities. | Meeting took note of the above & appreciated efforts taken by Institute to inculcate research culture in the Institute. Also, Meeting appreciated Principal Investigator Prof. A. A. Jadhav, (E&TC Department) for receiving fund for Sensor Technology Project proposal of ATAL FDP from AICTE. Further following was resolved unanimously.<br>1) HODs of all departments should make additional efforts to increase the paper publications of their respective department. | **E&TC:** Faculty members are motivated to publish papers in SCI/SCOPUS/UGC care journals. No. Papers published are 12 and 21 submitted<br>**Mech.:**<br>**Published:** 2 papers published in SCI indexed journals, 2 papers in WOS indexed journals, 1 in SCOPUS indexed journal, 1 in UGC-CARE listed journal, 7 papers presented in National Conference **(Total – 13)**<br>**Submitted:** 4 papers to SCI, 15 papers to Techno-Societal 2020 Int. Conference **(19 submitted)** |

| Item No. | Resolutions/Action Points | Action Taken |
|---|---|---|
| | | **CSE:** 5 Papers published in UGC care Journals and one paper in Elsevier Journal. 25 papers submitted to techno-Societal.<br>**Civil:**<br>Due to corona examination was cancelled for last semester.<br>For this semester 9 faculty members have registered and examination is scheduled in the next month.<br>**Elect:**<br>1. Faculty members are insisted to submit the research article in Techno-Societal 2020. (6 papers submitted).<br>2. Faculty members were motivated to submit paper in SCI/Scopus journal. (2 papers submitted)<br>**First Year:**<br>The efforts are being taken to increase the publications. Total 04 faculty members have submitted the research papers in Techno-Societal 2020 and total six papers are submitted by F. Y. B. Tech faculty members during Sem-I of AY 2020-21 (Including 04 in Techno-societal).<br>**M.B.A.**<br>Faculty members are insisted to submit the research article in Techno-Societal 2020. (4 papers submitted). Also 2 papers are published in ISSN journals. |

<table>
<tr><th>Item No</th><th>Resolutions/Action Points</th><th>Action Taken</th></tr>
<tr><td></td><td>2) All HODs should focus on increasing the consultancy of their department.</td><td>E&TC: Leaflet is prepared for Anetnna Design and testing and circulated. Enquiries are started.<br>Mech.:<ul><li>Faculty visit to industry are planned</li><li>Rs 18585/- (Oct 2020)</li><li>Total = Rs. 1,84,128/-</li></ul>CSE:<table><tr><td>Sr. No.</td><td>Name Of Agency</td><td>Amount</td></tr><tr><td>1</td><td>MHT-CET</td><td>1,36,935/-</td></tr><tr><td>2</td><td>MHT-CET MCA</td><td>6,000/-</td></tr><tr><td colspan="2">Total</td><td>1,42,935/-</td></tr></table>Civil: Following efforts are taken in the department:<ol><li>Made domain wise four different groups</li><li>On the occasion of Diwali festival, pamphlets to introduce the testing and consultancy services available in the Department are prepared and distributed to Government officers and private contractors, engineers, architectures, etc. for advertisement purpose.</li><li>Preparation of separate webpage to introduce the consultancy facilities available in the Department are in progress.</li></ol></td></tr>
</table>

| Item No | Resolutions/Action Points | Action Taken |
|---|---|---|
| | | **Elect:**<br>1) Faculty are insisted to attend reverse engineering webinar to understand and develop the products.<br>2) Faculty are motivated to study published patents and choose any one patent idea to develop a product from it.<br>3) Faculty are motivated to meet industry persons to get know their problems.<br>4) Generated 30,000=00 Rs. Consultancy in last 2 months. |
| | 3) HODs should strictly implement research plan for A.Y. 2020-21 and make necessary efforts to fulfill the targets given by Dean R & D. | **E&TC:** Efforts are put to implement plan and will be followed to complete it as per plan.<br>**Mech.:** Continuous follow up for implementation of Research Plan is being taken.<br>CSE: Research Plan prepared for Dept. in line with targets given by Dean R &D and implementation going on.<br>**Civil:** Continuous monitoring of R&D plan is being done through departmental R&D coordinator.<br>**Elect:** R&D target is being monitored through departmental R&D coordinator and review of the same is being taken in Monday meeting.<br>**First Year:** Care is being taken for successfully implementing the Research Plan. During Sem-I of A.Y. 2020-21, total 06 Research papers are published by F.Y. B. Tech faculty members.<br>**M.B.A.:** Implementing |

| Item No. | Resolutions/Action Points | Action Taken |
|---|---|---|
| 5) About Training & Placement Activities. | Meeting took note of the above activities and felt satisfaction also it was resolved unanimously that Dean TPII should conduct more number of training programs in respect of aptitude and should make efforts to bring more companies for the placement. | As per directions more Aptitude Training programs are arranged such as CAPGEMINI specific Programme, TCS Specific Aptitude Programme, Regular Aptitude Sessions. In the last three months more than 100 hrs training has been given to students which has resulted into selection of 11 students from CSE and ENTC for CAPGEMINI with Package of 3.8, 1 student of CSE for Hexaware with package of 3.6 lakh and 2 students for Persistent with package of 4.51 LPA. |
| 6) About Institute's Innovation Council (IIC) Activities. | Meeting took note of the same and appreciated the efforts made by Institute for constituting such Innovative Cell. Also following was resolved unanimously.<br>1) The external members should interact with faculty & students frequently and guide them for innovative products and research projects.<br>2) The external members should conduct STTP/workshops on the innovative topics.<br>3) This cell should focus on activities as per the guidelines of ARAI, NIRF ,etc . | 1) 5 certificate courses are conducted till July 2020. Each course was of minimum 30hrs.<br>2) Three online workshops conducted for faculty members by external members of IIC.<br>3) Coordinated three AICTE workshops for faculty members as well as students.<br>4) ARIIA prequalifying form is submitted and waiting for opening of link to submit the detailed data. |

| Item No. | Resolutions/Action Points | Action Taken |
|---|---|---|
| 7) About Plan for organinging FDPs/Workshop. | 1) STTPs should be conducted for the period of minimum one week. | **Mech.:** One Week STTP is planned in May 2021. **E&TC:** Planned in April 2021. **CSE:** AICTE Sponsored STTP on "Blockchain with Devops" conducted in 2 slots for the period of one week. 3rd slot is planned. **Civil:** Conducted during22nd to 27th June June 2020 for 5days on "Design thinking approaches in Engineering". **Elect:** We have planned to conduct one program on Electric Vehicle under PAHSU and accordingly proposal has to be submitted. **First Year:** Such programme will be arranged during Induction Program for FY B Tech Students. |
| | 2) Every department should organize minimum one STTP/FDP once in a year. | **Mech.:** One Week STTP is planned in May 2021 & proposal is submitted to PAH Solapur University. **E&TC:** Conducted total 2 FDPs- One ATAL FDP and one FDP and one more ATAL FDP is planned in Feb 2021. **CSE:** Organized AICTE sponsored STTP on "Blockchain with devops". **Civil:** Conducted during22nd to 27th June 2020 for 5days on "Design thinking approaches in Engineering". **Elect:** One week STTP is planned in Jan 2021 on "Electric & Hybrid Vehicles". |

| Item No. | Resolutions/Action Points | Action Taken |
|---|---|---|
| 8) About organizing program for Students. | Meeting took note of the same and resolved unanimously that in addition to regular programs more focus should be given to arrange programs in respect of Health, Hygiene and Gender Equity. | A Session on the topic "HEALTH AND HYGIENE" was conducted for students on 09/09/2020. |
| 9) About Certificate Courses. | Meeting took note of the and further resolved that the practice of arranging such Certificate Courses of having duration of minimum 30 hours be continued in future also. | **Mech.:** One course is in progress and one more planned in Semester II of AY 2020-2021. **E&TC:** Two courses completed. **CSE:** Completed 2 Certificate Courses on IOT and Block chain. Planned for 3rd certificate course on "Entrepreneurship Start-ups". **Civil:** All certificate courses we have scheduled are of software based and field work type. In this semester we failed to conduct such courses due to out breaking of Covid-19. However, we conduct minimum four Certificate courses for each student throughout their tenure of degree. **Elect:** Certificate course for SY & TY Electrical students planned in the month of January 2021 Based on MATLAB or SOLAR APPLICATIONS . |
| 10(1) About Corsersa Courses. | Meeting took note of the same and appreciated the efforts of Institute for providing the online Coursera Courses to the Faculty and Students free of cost . Meeting also unanimously resolved that HODs should take appropriate actions against the faculty members those have not completed the Corusera Courses as per the Institute Policy. | **Mech.:** Average 5 courses were completed by all faculty members **E&TC:** All faculty attended Coursera Courses with an average of 7 courses. **CSE:** As per Institute Policy Every faculty had completed minimum 2 Coursera Courses. |

| Item No. | Resolutions/Action Points | Action Taken |
|---|---|---|
| | | **Civil:**<br>Except two faculty members all other have completed minimum two coursera courses.<br>**Elect:**<br>SY BTech: 22 and TY students:45 Students registered for coursera. All the faculties have registered for coursera course.<br>**First Year:**<br>All the faculty members concerned with FY B Tech department have successfully completed the COURSERA Courses as per the Institute Policy. |
| 10(2) About Prerana Scheme of AICTE. | The meeting took note of the same and appreciated the efforts of Institute for bringing such innovative schemes for our Institute and inform to authorities to write proposals for bringing such kind of schemes for our students in future also. | Proposals writing is in process. Already 3 proposals related to EDP are submitted to DST. |
| 10(3) About Skill and Personality Development Program (SPDP) Centre. | The meeting took note of the same and appreciated the efforts of Institute for bringing funds for developing such centre in our Institute to develop personality and skill for SC/ST students. Meeting also informed Prof. R. R. Gidde to arrange more number of programs in respect of developing skill and personality of SC/ST students in this academic year. | Programs will be arranged as soon as the 2nd instalment of the grant is received. |

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**Date of meeting in which ATR is presented: 28.02.2020**

# SVERI's College of Engineering, Pandharpur

## Action Taken Report on the resolutions made in the IQAC meeting of 29-11-2020

| Item no. | Resolutions/ Action Points | Action Taken |
|---|---|---|
| 1) Confirmation of the Minutes of the last meeting. | The minutes of the last meeting held on 06/09/2020 were read and confirmed unanimously. | ---- |
| 2) About Action Taken Report on resolutions passed in the last meeting. | The meeting took note of the action taken report and expressed satisfaction wherever the actions are completed. The committee informed the concerned to take rigorous follow-up and complete the tasks as early as possible where actions related to items are in progress. | ---- |
| 3) About Review of activities for Semester-I of A.Y.2020-2021. | HODs should ensure that all subject teachers of their respective departments have provided the necessary study material online to the students.<br>HODs should ensure that all teachers have updated their teaching dairy as per the format provided by Dean Academics.<br>Review lectures should be started immediately as soon as syllabus is get completed and be conducted up to fifteen days before the date of University examination.<br>HODs should ensure that subject teachers have demonstrated the Practicals to the students similar to the online theory lectures.<br>HODs should also ensure that ISEs are conducted as per their departmental calendar and progress of students be communicated to the parents. | All HODs have submitted the reports in respect of passed resolutions. The details are as follows;<br>1) All the study material was uploaded on google drive. Video lectures are uploaded on YouTube and link was provided to students.<br>2) All teachers have updated their Teaching diary and HODs are taking follow taken on regular basis.<br>3) All departments have started revision lectures immediately after completing syllabus.<br>4) All departments have conducted online practicals in line with theory.<br>5) ISEs are conducted and progress is communicated to the parents. |

| Item no. | Resolutions/ Action Points | Action Taken |
|---|---|---|
| 4) About ISO 9001:2015 Audit. | Meeting took note of the same and congratulated Principal Dr. B. P. Ronge and his team for successfully carrying out ISO 90001:2015 recertification audit. It was also unanimously resolved that ISO Coordinator Ms. M. M. Bhore should communicate suggestions if any given by audit team to the concern authorities. | ISO Coordinator Ms. M. M. Bhore communicated suggestions given by audit team to Institute level authorities. |
| 5) About Review of Research Projects, Funds, Publications & Future plan. | HODs should review the research plan prepared by Dean R&D in their departmental meetings. HODs should fulfill the targets mentioned in the plan by taking continuous follow-up. Dean R & D through HODs should focus on writing research proposals to different funding agencies like AICTE, RGSTC, DST, University, etc. and bring maximum fund to the Institute to perform research. | 1) Research Plan was submitted to HOD and departmental R&D coordinator. 2) Through departmental R&D coordinator there is continuous follow up. 3) More than 39 Proposals has been submitted from last meeting to this meeting. |
| 6) About Review of Placement of Students. | Dean TPII should be actively involved in Training & Placement activities. Dean TPII should collect information of various industries those are in close contact with our management from the respective management members. | 1) Active Participation is ensured through Industry visits through which campus drives of core companies are confirmed. 2) More Leads have been generated through NASSCOM conference and HR forums. 3) TPO is maintaining communication with Hon. Management members for more leads for campus placements. |
| 7) About One week Departmental STTP to be organized by Department. | Meeting took note of the same and expressed satisfaction to the departments those have | HOD Mech.: One week STTP will be conducted in May/June 2021(one |

| Item no. | Resolutions/ Action Points | Action Taken |
|---|---|---|
| | successfully organized one week STTP and informed other Head of Departments to organize one week STTP as per their plan. | funding proposal is submitted to PAHSUS and another proposal is submitted to AICTE)<br>HOD E&TC:<br>One STTP and Two ATAL FDPs are conducted by department<br>HOD CSE:<br>3 slots of one week AICTE Sponsored<br>STTP on "Block chain with Devops" conducted.<br>HOD Civil:<br>One week STTP will be conducted in May/June 2021. Also, funding proposal is submitted to AICTE. |
| 8) About Review of Industry Institute Partnership Cell (IIPC). | Meeting took note of the same and further unanimously resolved that IIPC Coordinator in consultation with Dean TPII should strengthen the Industry Institute Partnership Cell (IIPC) activities. | 1) Meeting was conducted with industry professionals from DCPL,TOP Gear, Reliance Jio & DIC Solapur.<br>2) Thorough discussion was made on latest technology and industry needs as well as related to Entrepreneurship sessions from DIC.<br>3) Also MoUs signed with ATLAS COPCO, Transneuron, Grade Up and Skillshark, RK Infotech for Guest lecture, GATE/IES/SSC training, centre of excellence, Placement etc activities.<br>4) Industry leaders allowed our students for Internship once the current situation will be normal. Also they have agreed for sharing problem statements which can be used for Projects and consultancy purpose. |
| 9) About Green Audit. | Meeting took note of the same and informed Green Audit Coordinator to take continuous follow-up to complete the audit procedure as early as possible. | Audit is conducted. |

| Item no. | Resolutions/ Action Points | Action Taken |
|---|---|---|
| 10) About Review of activities related Techno-Societal- 2020 Conference | Appreciated the efforts of Institute, Principal and Chairman of organizing committee Dr. B. P. Ronge, Coordinator Dr. P. M. Pawar and their team for organization of Techno Societal Conference 2020.<br>Efforts should be made to have grand success of 3rd Techno-Societal International Conference-2020.<br>Dr. B. P. Ronge is authorised to take appropriate decisions including financial in respect of all the requirements to make this conference successful. | 3rd Techno-Societal 2020 International Conference on Advanced Technology for Societal Application was arranged successfully on 11/12/2020 and 12/12/2020. |
| 11) About 2nd Cycle of NAAC Accreditation. | NAAC Coordinator should start filling IIQA information on NAAC portal in first week of December, 2020.<br>NAAC Coordinator should ensure the correctness of data in related to IIQA and SSR information.<br>NAAC Coordinator should ensure the completion of remaining work of Criteria before submission of IIQA.<br>Dr. B. P. Ronge is authorised to take all necessary financial decisions in respect of the activities related to NAAC. | 1) IIQA form filling on NAAC portal has been started.<br>2) NAAC Coordinator ensured the correctness of data required to be filled for SSR.<br>3) After submission of IIQA, immediately data filling of SSR on NAAC portal will be started. |
| 12(1) About AICTE Visvesvaraya Best Teachers Award to Dr. P. M. Pawar. | Meeting took note of the same and congratulated Dr. P. M. Pawar for this remarkable achievement and given best wishes for his bright future. | ---- |

Coordinator
Internal Quality Assurance Cell (IQAC)
SVERI'S College of Engineering,
Pandharpur

COLLEGE OF ENGINEERING PANDHARPUR

PRINCIPAL,
College of Engineering,
PANDHARPUR.

# APPENDIX-II

# 3. Participation in NIRF

# National Institutional Ranking Framework

**Ministry of Education**

**Government of India**

**Welcome to Data Capturing System: OVERALL**

**Submitted Institute Data for NIRF'2021'**

Institute Name: College of Engineering [IR-O-C-15762]

### Sanctioned (Approved) Intake

| Academic Year | 2019-20 | 2018-19 | 2017-18 | 2016-17 | 2015-16 | 2014-15 |
|---|---|---|---|---|---|---|
| UG [4 Years Program(s)] | 540 | 540 | 420 | 420 | - | - |
| PG [2 Year Program(s)] | 132 | 132 | - | - | - | - |

### Total Actual Student Strength (Program(s) Offered by Your Institution)

| (All programs of all years) | No. of Male Students | No. of Female Students | Total Students | Within State (Including male & female) | Outside State (Including male & female) | Outside Country (Including male & female) | Economically Backward (Including male & female) | Socially Challenged (SC+ST+OBC Including male & female) | No. of students receiving full tuition fee reimbursement from the State and Central Government | No. of students receiving full tuition fee reimbursement from Institution Funds | No. of students receiving full tuition fee reimbursement from the Private Bodies | No. of students who are not receiving full tuition fee reimbursement |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UG [4 Years Program(s)] | 1074 | 842 | 1916 | 1899 | 17 | 0 | 763 | 898 | 547 | 0 | 0 | 1114 |
| PG [2 Year Program(s)] | 93 | 97 | 190 | 190 | 0 | 0 | 53 | 53 | 44 | 0 | 0 | 62 |

### Placement & Higher Studies

### UG [4 Years Program(s)]: Placement & higher studies for previous 3 years

| Academic Year | No. of first year students intake in the year | No. of first year students admitted in the year | Academic Year | No. of students admitted through Lateral entry | Academic Year | No. of students graduating in minimum stipulated time | No. of students placed | Median salary of placed graduates(Amount in Rs.) | No. of students selected for Higher Studies |
|---|---|---|---|---|---|---|---|---|---|
| 2014-15 | 420 | 287 | 2015-16 | 201 | 2017-18 | 481 | 356 | 250000(Two Lakh Fifty Thousands only) | 35 |
| 2015-16 | 420 | 307 | 2016-17 | 215 | 2018-19 | 398 | 352 | 326000(Three Lakh Twenty Six Thousands only) | 23 |
| 2016-17 | 420 | 345 | 2017-18 | 167 | 2019-20 | 443 | 393 | 339000(Three Lakh Thirty Nine Thousands only) | 25 |

### PG [2 Years Program(s)]: Placement & higher studies for previous 3 years

| Academic Year | No. of first year students intake in the year | No. of first year students admitted in the year | Academic Year | No. of students graduating in minimum stipulated time | No. of students placed | Median salary of placed graduates(Amount in Rs.) | No. of students selected for Higher Studies |
|---|---|---|---|---|---|---|---|
| 2016-17 | 132 | 78 | 2017-18 | 49 | 42 | 230000(Two Lakh Thirty Thousands only) | 0 |
| 2017-18 | 132 | 90 | 2018-19 | 67 | 47 | 260000(Two Lakh Sixty Thousands only) | 1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2018-19 | 132 | 115 | 2019-20 | 65 | 32 | 250000(Two Lakh Fifty Thousands only) | 0 |

### Ph.D Student Details

| Ph.D (Student pursuing doctoral program till 2019-20 Students admitted in the academic year 2020-21 should not be entered here.) | | | |
|---|---|---|---|
| | Total Students | | |
| Full Time | 10 | | |
| Part Time | 0 | | |
| **No. of Ph.D students graduated (including Integrated Ph.D)** | | | |
| | 2019-20 | 2018-19 | 2017-18 |
| Full Time | 0 | 2 | 3 |
| Part Time | 0 | 0 | 0 |

### Financial Resources: Utilised Amount for the Capital expenditure for previous 3 years

| Academic Year | 2019-20 | 2018-19 | 2017-18 |
|---|---|---|---|
| | Utilised Amount | Utilised Amount | Utilised Amount |
| **Annual Capital Expenditure on Academic Activities and Resources (excluding expenditure on buildings)** | | | |
| Library | 755487 (Seven Lakhs fifty five thousands four hundred eighty seven only) | 1122056 (Eleven lakhs twenty two thousand fifty six only ) | 721809 (Seven lakhs twenty one thousand eight hundred nine only) |
| New Equipment for Laboratories | 4629278 (Forty six lakhs twenty nine thousand two hundred seventy eight only ) | 8957414 (Eighty Nine lakhs Fifty Seven thousands t Four Hundred Fourteen only ) | 8931194 (Eighty nine lakhs thirty one thousand one hundred ninety four only) |
| Engineering Workshops | 190233 (one lakh ninety thousand two hundred thirty three only) | 149055 (one lakh forty nine thousand fifty five only) | 151324 (one lakh fifty one thousand three hundred twenty four only) |
| Other expenditure on creation of Capital Assets (excluding expenditure on Land and Building) | 9403448 (Ninety four lakhs three thousand four hundred forty eight ) | 255910 (Two Lakhs Fifty five Thousands Nine Hundred ten only) | 600000 (Six lakhs only) |

### Financial Resources: Utilised Amount for the Operational expenditure for previous 3 years

| Academic Year | 2019-20 | 2018-19 | 2017-18 |
|---|---|---|---|
| | Utilised Amount | Utilised Amount | Utilised Amount |
| **Annual Operational Expenditure** | | | |
| Salaries (Teaching and Non Teaching staff) | 147820194 (Fourteen crore seventy eight lakhs twenty thousand one hundred ninety four only ) | 157480991 (Fifteen crore seventy four lakhs eighty thousand nine hundred ninety one only) | 144425336 (Fourteen Crore Forty Four Lakh Twenty Five Thousand Three Hundred Thirty Six only) |
| Maintenance of Academic Infrastructure or consumables and other running expenditures(excluding maintenance of hostels and allied services,rent of the building, depreciation cost, etc) | 57379246 (Five crore seventy three lakhs seventy nine thousand two hundred forty six only) | 54197083 (Five crore forty one lakhs ninety seven thousand eighty three only only) | 52682549 (Five crore twenty six lakhs eighty two thousand five hundred forty nine only) |
| Seminars/Conferences/Workshops | 3166025 (Thirty one lakhs sixty six thousand twenty five only) | 4697737 (Forty six lakhs ninety seven thousand seven hundred thirty seven only) | 3261713 (Thirty two lakhs sixty one thousand seven hundred thirteen only) |

### IPR

| Calendar year | 2019 | 2018 | 2017 |
|---|---|---|---|
| No. of Patents Published | 14 | 0 | 0 |

| | | | |
|---|---|---|---|
| No. of Patents Granted | 0 | 0 | 0 |

### Sponsored Research Details

| Financial Year | 2019-20 | 2018-19 | 2017-18 |
|---|---|---|---|
| Total no. of Sponsored Projects | 14 | 23 | 13 |
| Total no. of Funding Agencies | 5 | 5 | 1 |
| Total Amount Received (Amount in Rupees) | 17251000 | 3800125 | 100000 |
| Amount Received in Words | One crore seventy two lakh fifty  one thousand only | Thirty Eight Lac One Hundred and Twenty Five only | One Lac only |

### Consultancy Project Details

| Financial Year | 2019-20 | 2018-19 | 2017-18 |
|---|---|---|---|
| Total no. of Consultancy Projects | 115 | 70 | 32 |
| Total no. of Client Organizations | 7 | 67 | 34 |
| Total Amount Received (Amount in Rupees) | 1527578 | 1754561 | 2631083 |
| Amount Received in Words | Fifteen lakh Twenty Seven Thousand Five Hundred Seventy Eight Rupees only | Seventeen Lac Fifty four Thousond Five Hundred and Sixty One only | Twenty Six Lac Thirty One Thousand and Eighty Three only |

### Executive Development Program/Management Development Programs

| Financial Year | 2019-20 | 2018-19 | 2017-18 |
|---|---|---|---|
| Total no. of Executive Development Programs/ Management Development Programs | 24 | 16 | 9 |
| Total no. of Participants | 2000 | 845 | 696 |
| Total Annual Earnings (Amount in Rupees)(Excluding Lodging & Boarding Charges) | 0 | 0 | 0 |
| Total Annual Earnings in Words | zero | zero | zero |

### PCS Facilities: Facilities of physically challenged students

| | |
|---|---|
| 1. Do your institution buildings have Lifts/Ramps? | Yes, more than 80% of the buildings |
| 2. Do your institution have provision for walking aids, includingwheelchairs and transportation from one building to another for handicapped students? | Yes |
| 3. Do your institution buildings have specially designed toilets for handicapped students? | Yes, more than 80% of the buildings |

### Accreditation

### NBA Accreditation

| | |
|---|---|
| 1.Does your institute have a valid NBA Accreditation? | YES |
| **Total number of programs (whose two batches have passed out) in the institution/department** | **Number of programs accredited** |
| 9 | 4 |

| Name of the accredited program | Valid from | Valid upto | Accreditation Status |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Civil Engineering (UG) | 01-07-2017 | 30-06-2023 | Accredited for 6 years |
| Mechanical Engineering (UG) | 01-07-2017 | 30-06-2023 | Accredited for 6 years |
| Computer Science and Engineering (UG) | 01-07-2017 | 30-06-2023 | Accredited for 6 years |
| Electronics and Telecommunication Engineering (UG) | 01-07-2017 | 30-06-2023 | Accredited for 6 years |

## NAAC Accreditation

| 1. Does your institute have a valid NAAC Accreditation? | YES |
|---|---|

| Valid from | Valid upto | CGPA |
|---|---|---|
| 15-11-2015 | 14-11-2020 | 2.75 |

## Faculty Details

| Srno | Name | Age | Designation | Gender | Qualification | Experience (In Months) | Is Associated Last Year | Currently working with institution? | Joining Date | Leaving Date | Association type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Bhore Meenal Maruti | 42 | Assistant Professor | Female | M. Phil | 168 | Yes | Yes | 08-01-2008 | -- | Regular |
| 2 | Harun Mujjamil Tamboli | 34 | Assistant Professor | Male | M.E. | 24 | Yes | Yes | 12-01-2019 | -- | Regular |
| 3 | Abhinandan Ajitkumar Sangave | 27 | Assistant Professor | Male | M.Tech | 36 | Yes | Yes | 06-12-2018 | -- | Regular |
| 4 | Akkireddy Shravankumar | 35 | Assistant Professor | Male | M.Tech | 153 | Yes | Yes | 10-06-2018 | -- | Regular |
| 5 | Akshay Anil Jadhav | 29 | Assistant Professor | Male | M.E. | 50 | Yes | Yes | 08-05-2016 | -- | Regular |
| 6 | Anil Mahadev Kasture | 29 | Assistant Professor | Male | M.Tech | 84 | Yes | Yes | 14-02-2016 | -- | Regular |
| 7 | Antosh Madappa Dyade | 41 | Assistant Professor | Male | M.Tech | 120 | Yes | Yes | 02-08-2010 | -- | Regular |
| 8 | Apate Sulbha Suhas | 65 | Professor | Female | Ph.D | 488 | Yes | Yes | 01-07-2016 | -- | Regular |
| 9 | Archana Navnath Gaikwad | 27 | Assistant Professor | Female | MBA | 22 | Yes | Yes | 01-04-2019 | -- | Regular |
| 10 | Asabe Popat Bhanudas | 27 | Assistant Professor | Male | M.E. | 48 | Yes | Yes | 27-02-2020 | -- | Regular |
| 11 | Atole Seema Ashok | 27 | Assistant Professor | Female | M.E. | 21 | Yes | Yes | 01-11-2018 | -- | Regular |
| 12 | Avinash Kailas Parkhe | 28 | Assistant Professor | Male | M.E. | 54 | Yes | Yes | 01-07-2016 | -- | Regular |
| 13 | Avinash Mote | 31 | Assistant Professor | Male | M.Tech | 60 | Yes | Yes | 12-05-2019 | -- | Regular |
| 14 | Awatade Maina Machindra | 37 | Assistant Professor | Female | Ph.D | 168 | Yes | Yes | 01-01-2017 | -- | Regular |
| 15 | Balasaheb Tukaram Gadade | 32 | Assistant Professor | Male | M.E. | 132 | Yes | Yes | 01-08-2017 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Bapuso Sitaram Savase | 30 | Assistant Professor | Male | M. Phil | 72 | Yes | Yes | 20-05-2019 | -- | Regular |
| 17 | Bhaganagare Prashant Balu | 28 | Assistant Professor | Male | M.Tech | 35 | No | Yes | 01-07-2018 | -- | Regular |
| 18 | Bhosale Rohini Ramchandra | 41 | Assistant Professor | Female | M. Phil | 172 | Yes | Yes | 08-01-2008 | -- | Regular |
| 19 | Bhosale Sachin Dinesh | 34 | Assistant Professor | Male | M.E. | 144 | Yes | Yes | 09-05-2011 | -- | Regular |
| 20 | Bhosale Shrikrushna Babasaheb | 37 | Assistant Professor | Male | M.Tech | 150 | Yes | Yes | 06-12-2009 | -- | Regular |
| 21 | Bhuvaneshwari Chandrashekharayya Melinamath | 49 | Professor | Female | Ph.D | 312 | Yes | Yes | 01-06-2019 | -- | Regular |
| 22 | Chaudhary Dhananjay Shivaji | 38 | Assistant Professor | Male | Ph.D | 145 | Yes | Yes | 01-09-2014 | -- | Regular |
| 23 | Chetan Chandrkant Jadhav | 28 | Assistant Professor | Male | M.Tech | 36 | Yes | Yes | 16-01-2018 | -- | Regular |
| 24 | Chirra Anitha | 33 | Assistant Professor | Female | M.Tech | 120 | Yes | Yes | 12-06-2018 | -- | Regular |
| 25 | Chounde Amol Bandu | 34 | Assistant Professor | Male | M.E. | 125 | Yes | Yes | 01-08-2010 | -- | Regular |
| 26 | Daphale Dhanraj Dhamaraj | 26 | Assistant Professor | Male | M.Tech | 57 | No | Yes | 02-08-2018 | -- | Regular |
| 27 | Darshane Shrinivas Vasudev | 34 | Assistant Professor | Male | M.Tech | 132 | Yes | Yes | 02-05-2014 | -- | Regular |
| 28 | Deshmukh Manik G | 55 | Assistant Professor | Male | M.Tech | 204 | Yes | Yes | 11-06-2018 | -- | Regular |
| 29 | Dhanaji Pandurang Narsale | 30 | Assistant Professor | Male | M.Tech | 64 | Yes | Yes | 01-08-2015 | -- | Regular |
| 30 | Dhananjay Arun Kumbhar | 36 | Assistant Professor | Male | M.Tech | 176 | Yes | Yes | 01-07-2016 | -- | Regular |
| 31 | Dhanawe Suraj Anil | 31 | Assistant Professor | Male | M.E. | 47 | Yes | Yes | 01-01-2019 | -- | Regular |
| 32 | Dhavale Pravin Arjun | 39 | Assistant Professor | Male | M.E. | 180 | Yes | Yes | 01-02-2020 | -- | Regular |
| 33 | Digambar Tukaram Kashid | 28 | Assistant Professor | Male | M.E. | 68 | Yes | Yes | 02-01-2015 | -- | Regular |
| 34 | Dolas Pallavi Rahgunath | 28 | Assistant Professor | Female | M.E. | 72 | Yes | Yes | 01-10-2017 | -- | Regular |
| 35 | Gaikwad Bhaskar Dhondi | 54 | Associate Professor | Male | M.Tech | 336 | Yes | Yes | 22-01-2006 | -- | Regular |
| 36 | Gaikwad Pankaj Gajanan | 30 | Assistant Professor | Male | M.Tech | 63 | Yes | Yes | 02-05-2015 | -- | Regular |
| 37 | Gavali Sachin Ramchandra | 41 | Assistant Professor | Male | M.E. | 216 | Yes | Yes | 01-04-2005 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 38 | Geeta G Unhale | 27 | Assistant Professor | Female | M.E. | 35 | Yes | Yes | 12-01-2019 | -- | Regular |
| 39 | Gidde Ranjit Ramkrishna | 45 | Assistant Professor | Male | Ph.D | 161 | Yes | Yes | 07-08-2007 | -- | Regular |
| 40 | Hande Neelam Bhima | 30 | Assistant Professor | Female | M.Sc. | 96 | Yes | Yes | 15-06-2017 | -- | Regular |
| 41 | Hangargi Padmanjali | 37 | Associate Professor | Female | Ph.D | 180 | Yes | Yes | 12-12-2019 | -- | Regular |
| 42 | Haridas Hanmant Pawar | 34 | Assistant Professor | Male | Ph.D | 140 | Yes | Yes | 01-01-2019 | -- | Regular |
| 43 | Haridas Rangnath Nandkumar | 37 | Assistant Professor | Male | Ph.D | 171 | Yes | Yes | 15-06-2010 | -- | Regular |
| 44 | Harshada Maruti Gove | 27 | Assistant Professor | Female | M.Sc. | 37 | Yes | Yes | 10-06-2019 | -- | Regular |
| 45 | Hemchandra Ramesh Pawar | 34 | Assistant Professor | Male | M.Tech | 24 | Yes | Yes | 06-06-2019 | -- | Regular |
| 46 | Husain K Bhaldar | 34 | Assistant Professor | Male | M.E. | 132 | Yes | Yes | 08-12-2016 | -- | Regular |
| 47 | Inamdar Gururaj Kumar | 26 | Assistant Professor | Male | M.E. | 36 | Yes | Yes | 14-02-2020 | -- | Regular |
| 48 | Jadhav Ashish Anandrao | 33 | Assistant Professor | Male | M.E. | 132 | Yes | Yes | 11-07-2009 | -- | Regular |
| 49 | Jadhav Shashikant Subhash | 29 | Assistant Professor | Male | M.Tech | 66 | No | Yes | 02-07-2018 | -- | Regular |
| 50 | Jadhav Subhash Vyankatrao | 50 | Assistant Professor | Male | M.Tech | 300 | Yes | Yes | 23-02-2011 | -- | Regular |
| 51 | Jadhav Vanita Dnyandev | 39 | Associate Professor | Female | M.E. | 180 | Yes | Yes | 10-01-2005 | -- | Regular |
| 52 | Jagadeesh Hallur | 32 | Assistant Professor | Male | M.Tech | 96 | Yes | Yes | 15-06-2017 | -- | Regular |
| 53 | Jagdale Satyawan Dagadu | 34 | Assistant Professor | Male | M.Tech | 108 | Yes | Yes | 15-06-2012 | -- | Regular |
| 54 | Jagtap Salan Agatrao | 34 | Assistant Professor | Female | MBA | 120 | Yes | Yes | 15-06-2009 | -- | Regular |
| 55 | Kadam Amol Achutrao | 31 | Assistant Professor | Male | M.Tech | 12 | Yes | Yes | 20-01-2020 | -- | Regular |
| 56 | Kadam Sanjivani Sachin | 31 | Associate Professor | Female | M.E. | 96 | Yes | Yes | 01-06-2012 | -- | Regular |
| 57 | Kadam Sneha Suresh | 29 | Assistant Professor | Female | M.E. | 90 | Yes | Yes | 21-06-2013 | -- | Regular |
| 58 | Kadam Sunil Dnyaneshwar | 31 | Assistant Professor | Male | M.Sc. | 30 | Yes | Yes | 20-01-2018 | -- | Regular |
| 59 | Kagade Ranjeet Bharat | 33 | Assistant Professor | Male | M.E. | 108 | Yes | Yes | 25-06-2015 | -- | Regular |
| 60 | Kalebag Vidya Gopinath | 29 | Assistant Professor | Female | M.E. | 72 | Yes | Yes | 17-06-2018 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 61 | Khedkar Yashpal Marutirao | 36 | Assistant Professor | Male | M.E. | 132 | Yes | Yes | 05-09-2009 | -- | Regular |
| 62 | KOKARE AVINASH BABASO | 30 | Assistant Professor | Male | M.E. | 89 | Yes | Yes | 08-07-2013 | -- | Regular |
| 63 | Kshirsagar Vidyarani Saudagar | 38 | Assistant Professor | Female | Ph.D | 162 | Yes | Yes | 01-07-2006 | -- | Regular |
| 64 | Kulkarni Milind Balbhim | 40 | Assistant Professor | Male | M.E. | 198 | Yes | Yes | 01-01-2019 | -- | Regular |
| 65 | Kulkarni Neeta Premkumar | 37 | Assistant Professor | Female | M.E. | 175 | Yes | Yes | 15-12-2009 | -- | Regular |
| 66 | Lalita Anil Palange | 30 | Assistant Professor | Female | M.E. | 84 | Yes | Yes | 11-06-2016 | -- | Regular |
| 67 | Lendave Satish Abhanga | 41 | Assistant Professor | Male | Ph.D | 238 | Yes | Yes | 11-09-2001 | -- | Regular |
| 68 | Limkar Chetan Ramesh | 29 | Assistant Professor | Male | M.E. | 87 | Yes | Yes | 17-06-2018 | -- | Regular |
| 69 | Mahesh Shivappa Yadrami | 32 | Assistant Professor | Male | M.Tech | 100 | Yes | Yes | 01-06-2019 | -- | Regular |
| 70 | Malge Archita vijaykumar | 41 | Assistant Professor | Female | M.Sc. | 110 | Yes | Yes | 09-05-2011 | -- | Regular |
| 71 | Mali Sonali Dattatraya | 28 | Assistant Professor | Female | M.Sc. | 61 | Yes | Yes | 05-08-2017 | -- | Regular |
| 72 | Manoj Ashok Deshmukh | 34 | Assistant Professor | Male | M.Tech | 84 | Yes | Yes | 08-07-2016 | -- | Regular |
| 73 | Maske Nitin Maruti | 30 | Assistant Professor | Male | M.E. | 49 | Yes | Yes | 01-04-2017 | -- | Regular |
| 74 | Mathpati Mahesh Sidramayya | 44 | Assistant Professor | Male | M.E. | 226 | Yes | Yes | 28-06-2012 | -- | Regular |
| 75 | Mohua Biswas | 31 | Assistant Professor | Female | M.E. | 79 | Yes | Yes | 21-06-2013 | -- | Regular |
| 76 | More Anuradha Anil | 26 | Assistant Professor | Female | M.E. | 24 | Yes | Yes | 01-01-2020 | -- | Regular |
| 77 | More Sanjay Nivrutti | 34 | Assistant Professor | Male | M.Tech | 84 | Yes | Yes | 01-06-2018 | -- | Regular |
| 78 | Nandkumar S Admile | 28 | Assistant Professor | Male | M.E. | 71 | Yes | Yes | 09-02-2019 | -- | Regular |
| 79 | Nayann  Kharade | 25 | Assistant Professor | Female | M.Sc. | 11 | Yes | Yes | 02-08-2018 | -- | Regular |
| 80 | Nilesh Tatyasaheb Salunkhe | 27 | Assistant Professor | Male | M.Sc. | 53 | Yes | Yes | 01-01-2019 | -- | Regular |
| 81 | Nimisha Dinesh Deval | 26 | Assistant Professor | Female | M.E. | 24 | Yes | Yes | 13-01-2019 | -- | Regular |
| 82 | Nisar Shaukat Shaikh | 32 | Assistant Professor | Male | M.E. | 138 | Yes | Yes | 01-02-2016 | -- | Regular |
| 83 | Onkar Laxman Mahajan | 33 | Assistant Professor | Male | M.E. | 132 | Yes | Yes | 16-05-2018 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 84 | Pathan Aphrin Shabbir | 27 | Assistant Professor | Female | M.Tech | 24 | Yes | Yes | 07-06-2018 | -- | Regular |
| 85 | Patil Dhanashree Vithalrao | 31 | Assistant Professor | Female | M.E. | 84 | Yes | Yes | 12-09-2017 | -- | Regular |
| 86 | Patil Ganesh Gopalrao | 31 | Assistant Professor | Male | M.E. | 84 | Yes | Yes | 28-06-2013 | -- | Regular |
| 87 | Patil Karan Babaso | 32 | Assistant Professor | Male | M. Phil | 132 | Yes | Yes | 16-08-2016 | -- | Regular |
| 88 | Patil Neha Shivajirao | 27 | Assistant Professor | Female | M.E. | 48 | Yes | Yes | 01-06-2018 | -- | Regular |
| 89 | Patil Sonali Pandurang | 29 | Assistant Professor | Female | M.E. | 89 | Yes | Yes | 01-06-2018 | -- | Regular |
| 90 | Patil Vidulata Appaso | 44 | Assistant Professor | Female | M.E. | 156 | Yes | Yes | 01-01-2020 | -- | Regular |
| 91 | Pawar  Santaji Tanaji | 29 | Assistant Professor | Male | Ph.D | 31 | Yes | Yes | 01-01-2018 | -- | Regular |
| 92 | Pawar Meenakshi Mukund | 39 | Associate Professor | Female | Ph.D | 204 | Yes | Yes | 01-07-2003 | -- | Regular |
| 93 | Pawar Mukund Maruti | 42 | Associate Professor | Male | Ph.D | 240 | Yes | Yes | 01-07-2001 | -- | Regular |
| 94 | Pawar Swati Prashant | 36 | Assistant Professor | Female | M.E. | 144 | Yes | Yes | 01-08-2008 | -- | Regular |
| 95 | POOJA DATTATRAY TARALGATTI | 28 | Assistant Professor | Female | M.Tech | 74 | Yes | Yes | 01-07-2015 | -- | Regular |
| 96 | Pradnya Krishna Bhuse | 31 | Assistant Professor | Female | M.E. | 96 | Yes | Yes | 11-09-2016 | -- | Regular |
| 97 | Pranali Balkrishna Kashid | 26 | Assistant Professor | Female | M.E. | 41 | Yes | Yes | 20-06-2019 | -- | Regular |
| 98 | Prasad Jare | 34 | Assistant Professor | Male | M.Sc. | 120 | Yes | Yes | 01-01-2020 | -- | Regular |
| 99 | Prashant Kedarnath Magadum | 43 | Assistant Professor | Male | M.Tech | 84 | Yes | Yes | 02-06-2019 | -- | Regular |
| 100 | Prashant Maruti Pawar | 41 | Professor | Male | Ph.D | 156 | Yes | Yes | 01-08-2008 | -- | Regular |
| 101 | Pratik Keshavrao Kurzekar | 31 | Assistant Professor | Male | M.E. | 24 | Yes | Yes | 01-01-2019 | -- | Regular |
| 102 | Pravin Sudam More | 28 | Assistant Professor | Male | MBA | 48 | Yes | Yes | 01-01-2019 | -- | Regular |
| 103 | Pukale Kuldip Suresh | 27 | Assistant Professor | Male | M.E. | 36 | Yes | Yes | 01-04-2018 | -- | Regular |
| 104 | Rahul Pandurang Nagane | 33 | Assistant Professor | Male | M.A | 85 | Yes | Yes | 06-06-2019 | -- | Regular |
| 105 | Ranganath Dattatraya Kulkarni | 32 | Assistant Professor | Male | M.Tech | 86 | Yes | Yes | 05-02-2019 | -- | Regular |
| 106 | Ranjitsinh Subhash Pawar | 35 | Assistant Professor | Male | Ph.D | 36 | Yes | Yes | 13-06-2019 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 107 | Rohan Pradeep Shinde | 31 | Assistant Professor | Male | M.Tech | 96 | Yes | Yes | 10-05-2019 | -- | Regular |
| 108 | Ronge Babruvahan Pandurang | 58 | Professor | Male | Ph.D | 432 | Yes | Yes | 04-07-1998 | -- | Regular |
| 109 | Ronge Digvijay Dadasaheb | 28 | Assistant Professor | Male | M.Tech | 36 | Yes | Yes | 01-07-2019 | -- | Regular |
| 110 | Ronge Suraj Babrwahan | 31 | Assistant Professor | Male | MBA | 72 | Yes | Yes | 01-09-2018 | -- | Regular |
| 111 | Rupali Milind Shinde | 30 | Assistant Professor | Female | M.E. | 24 | Yes | Yes | 01-01-2019 | -- | Regular |
| 112 | Sachin Madhukar Kale | 29 | Assistant Professor | Male | M.E. | 96 | Yes | Yes | 30-06-2014 | -- | Regular |
| 113 | Sachin Mahadev Khomane | 30 | Assistant Professor | Male | M.E. | 114 | Yes | Yes | 05-12-2011 | -- | Regular |
| 114 | Salunkhe Santosh Bharat | 35 | Assistant Professor | Male | Ph.D | 144 | Yes | Yes | 03-03-2008 | -- | Regular |
| 115 | Samadhan Jalindar Shinde | 30 | Assistant Professor | Male | M.E. | 108 | Yes | Yes | 01-11-2012 | -- | Regular |
| 116 | Sandipraj Yashwantrao Salunkhe | 42 | Assistant Professor | Male | M.E. | 228 | Yes | Yes | 02-02-2015 | -- | Regular |
| 117 | Satarkar Prajakta Abhishek | 37 | Assistant Professor | Female | M.Tech | 156 | Yes | Yes | 03-06-2007 | -- | Regular |
| 118 | Sathe Ravikant Siddheshwar | 31 | Assistant Professor | Male | M.E. | 96 | Yes | Yes | 26-07-2012 | -- | Regular |
| 119 | Shamli Vilas Jagzap | 29 | Assistant Professor | Female | M.E. | 17 | Yes | Yes | 01-03-2019 | -- | Regular |
| 120 | Shankar Uttam Bhanavase | 30 | Assistant Professor | Male | M.Sc. | 85 | Yes | Yes | 17-01-2017 | -- | Regular |
| 121 | SHEGDAR SUPRIYA ANANT | 28 | Assistant Professor | Female | M.E. | 60 | No | Yes | 01-07-2016 | -- | Regular |
| 122 | Shinde Amitkumar Ashokrao | 34 | Assistant Professor | Male | M.Tech | 114 | Yes | Yes | 07-02-2019 | -- | Regular |
| 123 | Shinde Diksha Tukaram | 26 | Assistant Professor | Female | M.Sc. | 49 | Yes | Yes | 09-07-2017 | -- | Regular |
| 124 | Shinde Jyoti Sahadev | 40 | Assistant Professor | Female | M.E. | 204 | Yes | Yes | 01-12-2007 | -- | Regular |
| 125 | Shinde Milind M | 31 | Assistant Professor | Male | M.E. | 24 | No | Yes | 01-06-2018 | -- | Regular |
| 126 | SHINDE RUPALI RAMESH | 33 | Assistant Professor | Female | M.E. | 60 | Yes | Yes | 04-08-2016 | -- | Regular |
| 127 | Shinde Sahadev Maruti | 36 | Assistant Professor | Male | M.Tech | 155 | Yes | Yes | 12-11-2007 | -- | Regular |
| 128 | Shital Zadbuke | 33 | Assistant Professor | Female | M.Sc. | 104 | Yes | Yes | 01-07-2019 | -- | Regular |
| 129 | Shrikrishna Avinash Gosavi | 32 | Assistant Professor | Male | M.E. | 120 | Yes | Yes | 01-02-2017 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 130 | Shrishail Prakash Swami | 33 | Assistant Professor | Male | M.Tech | 67 | Yes | Yes | 12-01-2019 | -- | Regular |
| 131 | Solage Rameshwar Dnyaneshwar | 30 | Associate Professor | Male | M.E. | 84 | Yes | Yes | 01-02-2019 | -- | Regular |
| 132 | Sonwane Sachin Ashok | 41 | Associate Professor | Male | Ph.D | 204 | Yes | Yes | 16-05-2019 | -- | Regular |
| 133 | Sudarshan Chandrasen Ukirade | 29 | Assistant Professor | Male | M.Tech | 14 | Yes | Yes | 02-05-2019 | -- | Regular |
| 134 | Sujit Ashok Inamdar | 43 | Assistant Professor | Male | M.E. | 205 | Yes | Yes | 11-07-2009 | -- | Regular |
| 135 | Supriya Shrikrushna Bhosale | 35 | Assistant Professor | Female | M.E. | 112 | Yes | Yes | 01-01-2019 | -- | Regular |
| 136 | Tamboli Dipti Amol | 41 | Assistant Professor | Female | M.Tech | 180 | Yes | Yes | 01-09-2007 | -- | Regular |
| 137 | Thigale Somnath Balasaheb | 38 | Associate Professor | Male | Ph.D | 168 | Yes | Yes | 02-01-2020 | -- | Regular |
| 138 | Trupti Arun Dhumal | 29 | Assistant Professor | Female | M.E. | 24 | Yes | Yes | 19-01-2019 | -- | Regular |
| 139 | Utpat Abhay Arun | 41 | Professor | Male | Ph.D | 240 | Yes | Yes | 12-08-2016 | -- | Regular |
| 140 | Uttam Laxman Anuse | 34 | Assistant Professor | Male | M.E. | 71 | Yes | Yes | 01-08-2015 | -- | Regular |
| 141 | Vibhute Anup Santosh | 46 | Professor | Male | Ph.D | 282 | Yes | Yes | 01-02-2017 | -- | Regular |
| 142 | Vikram Ramdas Chavan | 28 | Assistant Professor | Male | M.E. | 62 | Yes | Yes | 01-01-2017 | -- | Regular |
| 143 | Vinayak Macchindra Sale | 39 | Assistant Professor | Male | M.Tech | 166 | Yes | Yes | 02-01-2019 | -- | Regular |
| 144 | Wangikar Sandeep Sitaram | 37 | Associate Professor | Male | Ph.D | 180 | Yes | Yes | 01-08-2010 | -- | Regular |
| 145 | Yunussalim Babulal Patel | 44 | Assistant Professor | Male | M.Tech | 36 | Yes | Yes | 11-10-2018 | -- | Regular |

# National Institutional Ranking Framework

## Ministry of Human Resource Development

## Government of India

## Welcome to Data Capturing System: ENGINEERING

**Submitted Institute Data for NIRF'2020'**

Institute Name: College of Engineering [IR-E-C-15762]

### Sanctioned (Approved) Intake

| Academic Year | 2018-19 | 2017-18 | 2016-17 | 2015-16 | 2014-15 | 2013-14 |
|---|---|---|---|---|---|---|
| UG [4 Years Program(s)] | 540 | 420 | 420 | 420 | - | - |
| PG [2 Year Program(s)] | 132 | 132 | - | - | - | - |

### Total Actual Student Strength (Program(s) Offered by Your Institution)

| (All programs of all years) | No. of Male Students | No. of Female Students | Total Students | Within State (Including male & female) | Outside State (Including male & female) | Outside Country (Including male & female) | Economically Backward (Including male & female) | Socially Challenged (SC+ST+OBC Including male & female) | No. of students receiving full tuition fee reimbursement from the State and Central Government | No. of students receiving full tuition fee reimbursement from Institution Funds | No. of students receiving full tuition fee reimbursement from the Private Bodies | No. of students who are not receiving full tuition fee reimbursement |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UG [4 Years Program(s)] | 1133 | 957 | 2090 | 2081 | 9 | 0 | 741 | 578 | 661 | 0 | 0 | 658 |
| PG [2 Year Program(s)] | 87 | 91 | 178 | 177 | 1 | 0 | 40 | 41 | 55 | 0 | 0 | 26 |

### Placement & Higher Studies

### UG [4 Years Program(s)]: Placement & higher studies for previous 3 years

| Academic Year | No. of first year students intake in the year | No. of first year students admitted in the year | Academic Year | No. of students admitted through Lateral entry | Academic Year | No. of students graduating in minimum stipulated time | No. of students placed | Median salary of placed graduates(Amount in Rs.) | No. of students selected for Higher Studies |
|---|---|---|---|---|---|---|---|---|---|
| 2013-14 | 480 | 297 | 2014-15 | 215 | 2016-17 | 377 | 333 | 260000(Two Lac Sixty Thousand) | 15 |
| 2014-15 | 420 | 287 | 2015-16 | 201 | 2017-18 | 402 | 356 | 250000(Two Lac Fifty Thousand) | 29 |
| 2015-16 | 420 | 307 | 2016-17 | 215 | 2018-19 | 425 | 390 | 270000(Two Lac Seventy Thousand) | 22 |

### PG [2 Years Program(s)]: Placement & higher studies for previous 3 years

| Academic Year | No. of first year students intake in the year | No. of first year students admitted in the year | Academic Year | No. of students graduating in minimum stipulated time | No. of students placed | Median salary of placed graduates(Amount in Rs.) | No. of students selected for Higher Studies |
|---|---|---|---|---|---|---|---|
| 2015-16 | 132 | 109 | 2016-17 | 55 | 50 | 300000(Three Lac) | 0 |
| 2016-17 | 132 | 78 | 2017-18 | 54 | 30 | 240000(Two Lac Forty Thousand) | 0 |
| 2017-18 | 132 | 90 | 2018-19 | 43 | 30 | 270000(Two Lac Seventy Thousand) | 0 |

## Ph.D Student Details

| Ph.D (Student pursuing doctoral program till 2017-18; Students admitted in the academic year 2018-19 should not be entered here.) | | | |
|---|---|---|---|
| | Total Students | | |
| Full Time | 14 | | |
| Part Time | 0 | | |
| No. of Ph.D students graduated (including Integrated Ph.D) | | | |
| | 2018-19 | 2017-18 | 2016-17 |
| Full Time | 2 | 1 | 0 |
| Part Time | 0 | 0 | 0 |

## Financial Resources: Utilised Amount for the Capital expenditure for previous 3 years

| Academic Year | 2018-19 | 2017-18 | 2016-17 |
|---|---|---|---|
| | Utilised Amount | Utilised Amount | Utilised Amount |
| Annual Capital Expenditure on Academic Activities and Resources (excluding expenditure on buildings) | | | |
| Library ( Books, Journals and e-Resources only) | 1122056 (Eleven Lac Twenty Two Thousand and Fifty Six) | 721809 (Seven Lac Twenty One Thousand Eight Hundred and Nine) | 749441 (Seven Lac Forty Nine Thousand Four Hundred Forty One) |
| New Equipment and software for Laboratories | 9213324 (Ninety Two Lac Thirteen Thousand Three Hundred Twenty Four) | 8931194 (Eighty Nine Lac Thirty One Thousand One Hundred Ninety Four) | 20161252 (Two Crore One Lac Sixty One Thousand Two Hundred and Fifty Two) |
| Engineering Workshops | 149055 (One Lac Forty Nine Thousand and Fifty Five) | 151324 (One Lac Fifty One Thousand Three Hundred and Twenty Four) | 143696 (One Lac Forty Three Thousand Six Hundred and Ninety Six) |
| Other expenditure on creation of Capital Assets (For setting up classrooms, seminar hall, conference hall , library, Lab, Engg workshops excluding expenditure on Land and Building) | 204000 (Two Lac and Four Thousand) | 600000 (Six Lac only) | 1230001 (Twelve Lac Thirty Thousand and One) |

## Financial Resources: Utilised Amount for the Operational expenditure for previous 3 years

| Academic Year | 2018-19 | 2017-18 | 2016-17 |
|---|---|---|---|
| | Utilised Amount | Utilised Amount | Utilised Amount |
| Annual Operational Expenditure | | | |
| Salaries (Teaching and Non Teaching staff) | 157480991 (Fifteen Crore Seventy Four Lac Eighty Thousand Nine Hundred and Ninety One) | 144425336 (Fourteen Crore Forty Four Lac Twenty Five Thousand Three Hundred and Thirty Six) | 130682557 (Thirteen Crore Six Lac Eighty Two Thousand Five Hundred and Fifty Seven) |
| Maintenance of Academic Infrastructure or consumables and other running expenditures(excluding maintenance of hostels and allied services,rent of the building, depreciation cost, etc) | 54197083 (Five Crore Forty One Lac Ninety Seven Thousand and Eight Three) | 52682549 (Five Crore Twenty Six Lac Eighty Two Thousand Five Hundred and Forty Nine) | 49609318 (Four Crore Ninety Six Lac Nine Thousand Three Hundred and Eighteen) |
| Seminars/Conferences/Workshops | 4697737 (Forty Six Lac Ninety Seven Thousand Seven Hundred and Thirty Seven ) | 3261713 (Thirty Two Lac Sixty One Thousand Seven Hundred and Thirteen) | 4870251 (Forty Eight Lac Seventy Thousand Two Hundred and Fifty One) |

## IPR

| Calendar year | 2018 | 2017 | 2016 |
|---|---|---|---|
| No. of Patents Published | 0 | 0 | 0 |
| No. of Patents Granted | 0 | 0 | 0 |

## Sponsored Research Details

| Financial Year | 2018-19 | 2017-18 | 2016-17 |
|---|---|---|---|
| Total no. of Sponsored Projects | 23 | 13 | 7 |
| Total no. of Funding Agencies | 5 | 1 | 3 |
| Total Amount Received (Amount in Rupees) | 3800125 | 100000 | 31934000 |
| Amount Received in Words | Thirty Eight Lac One Hundred and Twenty Five | One Lac only | Three Crore Nineteen Lac and Thirty Four Thousand |

## Consultancy Project Details

| Financial Year | 2018-19 | 2017-18 | 2016-17 |
|---|---|---|---|
| Total no. of Consultancy Projects | 70 | 32 | 34 |
| Total no. of Client Organizations | 67 | 34 | 36 |
| Total Amount Received (Amount in Rupees) | 1754561 | 2631083 | 1441333 |
| Amount Received in Words | Seventeen Lac Fifty four Thousond Five Hundred and Sixty One | Twenty Six Lac Thirty One Thousand and Eighty Three | Fourteen Lac Forty One Thousand Three Hundred and Thirty Three |

## PCS Facilities: Facilities of physically challenged students

| | |
|---|---|
| 1. Do your institution buildings have Lifts/Ramps? | Yes, more than 80% of the buildings |
| 2. Do your institution have provision for walking aids, includingwheelchairs and transportation from one building to another for handicapped students? | Yes |
| 3. Do your institution buildings have specially designed toilets for handicapped students? | Yes, more than 80% of the buildings |

## Awards Details

| | |
|---|---|
| 1.How many faculty member of your institution have received highly reputed national/international awards/recognition from central government agencies in the previous academic year 2018-19 | 0 |
| 2.How many students of your institution have won international awards in the previous academic year 2018-19 | 0 |

## Accreditation

## NBA Accreditation

| | |
|---|---|
| 1.Does your institute have a valid NBA Accreditation? | YES |
| **Total number of programs (whose two batches have passed out) in the institution/department** | **Number of programs accredited** |
| 9 | 4 |

| Name of the accredited program | Valid from | Valid upto | Accreditation Status |
|---|---|---|---|
| Civil Engineering | 01-07-2017 | 30-06-2020 | Accredited for 3 years |
| Mechanical Engieering | 01-07-2017 | 30-06-2020 | Accredited for 3 years |
| Computer Science and Engineering | 01-07-2017 | 30-06-2020 | Accredited for 3 years |
| Electronics and Telecommunication Engineering | 01-07-2017 | 30-06-2020 | Accredited for 3 years |

## Village Adoption

| | |
|---|---|
| Have your institute adopted any village under Unnat Bharat Scheme? | YES |

## Faculty Details

| Srno | Name | Age | Designation | Gender | Qualification | Experience (In Months) | Is Associated Last Year | Currently working with institution? | Joining Date | Leaving Date | Association type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Akshay Anil Jadhav | 28 | Assistant Professor | Male | M.E. | 36 | Yes | Yes | 08-05-2016 | -- | Regular |
| 2 | Gaikwad Pankaj Gajanan | 29 | Assistant Professor | Male | M.Tech | 60 | Yes | Yes | 02-05-2015 | -- | Regular |
| 3 | Ronge Babruvahan Pandurang | 57 | Professor | Male | Ph.D | 420 | Yes | Yes | 04-07-1998 | -- | Regular |
| 4 | Sachin Madhukar Kale | 28 | Assistant Professor | Male | M.E. | 84 | Yes | Yes | 30-06-2014 | -- | Regular |
| 5 | Vibhute Anup Santosh | 45 | Professor | Male | Ph.D | 270 | Yes | Yes | 01-02-2017 | -- | Regular |
| 6 | Kadam Sneha Suresh | 28 | Assistant Professor | Female | M.E. | 78 | Yes | Yes | 21-06-2013 | -- | Regular |
| 7 | Utpat Abhay Arun | 40 | Professor | Male | Ph.D | 228 | Yes | Yes | 12-08-2016 | -- | Regular |
| 8 | Bhosale Shrikrushna Babasaheb | 36 | Assistant Professor | Male | M.Tech | 138 | Yes | Yes | 06-12-2009 | -- | Regular |
| 9 | Dolas Pallavi Rahgunath | 27 | Assistant Professor | Female | M.E. | 60 | Yes | Yes | 01-10-2017 | -- | Regular |
| 10 | Sujit Ashok Inamdar | 42 | Assistant Professor | Male | M.E. | 193 | Yes | Yes | 11-07-2009 | -- | Regular |
| 11 | Pawar Swati Prashant | 35 | Assistant Professor | Female | M.E. | 132 | Yes | Yes | 01-08-2008 | -- | Regular |
| 12 | Avinash Kailas Parkhe | 27 | Assistant Professor | Male | M.E. | 42 | Yes | Yes | 01-07-2016 | -- | Regular |
| 13 | POOJA DATTATRAY TARALGATTI | 27 | Assistant Professor | Female | M.Tech | 62 | Yes | Yes | 01-07-2015 | -- | Regular |
| 14 | Mohua Biswas | 30 | Assistant Professor | Female | M.E. | 67 | Yes | Yes | 21-06-2013 | -- | Regular |
| 15 | Kagade Ranjeet Bharat | 32 | Assistant Professor | Male | M.E. | 96 | Yes | Yes | 25-06-2015 | -- | Regular |
| 16 | Sachin Mahadev Khomane | 29 | Assistant Professor | Male | M.E. | 102 | Yes | Yes | 05-12-2011 | -- | Regular |
| 17 | Balasaheb Tukaram Gadade | 31 | Assistant Professor | Male | M.E. | 120 | Yes | Yes | 01-08-2017 | -- | Regular |
| 18 | Pawar Meenakshi Mukund | 38 | Associate Professor | Female | Ph.D | 192 | Yes | Yes | 01-07-2003 | -- | Regular |
| 19 | Lalita Anil Palange | 29 | Assistant Professor | Female | M.E. | 72 | Yes | Yes | 11-06-2016 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Khedkar Yashpal Marutirao | 35 | Assistant Professor | Male | M.E. | 120 | Yes | Yes | 05-09-2009 | -- | Regular |
| 21 | Husain K Bhaldar | 33 | Assistant Professor | Male | M.E. | 120 | Yes | Yes | 08-12-2016 | -- | Regular |
| 22 | Kadam Sanjivani Sachin | 30 | Associate Professor | Female | M.E. | 84 | Yes | Yes | 01-06-2012 | -- | Regular |
| 23 | Chounde Amol Bandu | 33 | Assistant Professor | Male | M.E. | 113 | Yes | Yes | 01-08-2010 | -- | Regular |
| 24 | KOKARE AVINASH BABASO | 29 | Assistant Professor | Male | M.E. | 77 | Yes | Yes | 08-07-2013 | -- | Regular |
| 25 | Mangesh Suresh Survase | 29 | Assistant Professor | Male | M.E. | 66 | Yes | Yes | 01-09-2017 | -- | Regular |
| 26 | Jadhav Ashish Anandrao | 32 | Assistant Professor | Male | M.E. | 120 | Yes | Yes | 11-07-2009 | -- | Regular |
| 27 | Satarkar Prajakta Abhishek | 36 | Assistant Professor | Female | M.Tech | 144 | Yes | Yes | 03-06-2007 | -- | Regular |
| 28 | Nisar Shaukat Shaikh | 31 | Assistant Professor | Male | M.E. | 126 | Yes | Yes | 01-02-2016 | -- | Regular |
| 29 | Samadhan Jalindar Shinde | 29 | Assistant Professor | Male | M.E. | 96 | Yes | Yes | 01-11-2012 | -- | Regular |
| 30 | Dhanaji Pandurang Narsale | 29 | Assistant Professor | Male | M.Tech | 52 | Yes | Yes | 01-08-2015 | -- | Regular |
| 31 | Gaikwad Bhaskar Dhondi | 53 | Associate Professor | Male | M.Tech | 324 | Yes | Yes | 22-01-2006 | -- | Regular |
| 32 | Wangikar Sandeep Sitaram | 36 | Associate Professor | Male | Ph.D | 168 | Yes | Yes | 01-08-2010 | -- | Regular |
| 33 | Lendave Satish Abhanga | 40 | Assistant Professor | Male | Ph.D | 214 | Yes | Yes | 11-09-2001 | -- | Regular |
| 34 | Manoj Ashok Deshmukh | 33 | Assistant Professor | Male | M.Tech | 138 | Yes | Yes | 08-07-2016 | -- | Regular |
| 35 | Antosh Madappa Dyade | 40 | Assistant Professor | Male | M.Tech | 108 | Yes | Yes | 02-08-2010 | -- | Regular |
| 36 | Gavali Sachin Ramchandra | 40 | Assistant Professor | Male | M.E. | 204 | Yes | Yes | 01-04-2005 | -- | Regular |
| 37 | Pawar Mukund Maruti | 41 | Associate Professor | Male | Ph.D | 222 | Yes | Yes | 01-07-2001 | -- | Regular |
| 38 | Sathe Ravikant Siddheshwar | 30 | Assistant Professor | Male | M.E. | 84 | Yes | Yes | 26-07-2012 | -- | Regular |
| 39 | Patil Ganesh Gopalrao | 30 | Assistant Professor | Male | M.E. | 72 | Yes | Yes | 28-06-2013 | -- | Regular |
| 40 | Uttam Laxman Anuse | 33 | Assistant Professor | Male | M.E. | 132 | Yes | Yes | 01-08-2015 | -- | Regular |
| 41 | Kshirsagar Vidyarani Saudagar | 37 | Assistant Professor | Female | Ph.D | 150 | Yes | Yes | 01-07-2006 | -- | Regular |
| 42 | Mathpati Mahesh Sidramayya | 43 | Assistant Professor | Male | M.E. | 214 | Yes | Yes | 28-06-2012 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43 | Jadhav Vanita Dnyandev | 38 | Associate Professor | Female | M.E. | 168 | Yes | Yes | 10-01-2005 | -- | Regular |
| 44 | SHINDE RUPALI RAMESH | 32 | Assistant Professor | Female | M.E. | 48 | Yes | Yes | 04-08-2016 | -- | Regular |
| 45 | Digambar Tukaram Kashid | 27 | Assistant Professor | Male | M.E. | 61 | Yes | Yes | 02-01-2015 | -- | Regular |
| 46 | Vijay Suresh Bhong | 27 | Assistant Professor | Male | M.E. | 63 | Yes | Yes | 03-01-2017 | -- | Regular |
| 47 | Dhananjay Arun Kumbhar | 35 | Assistant Professor | Male | M.Tech | 164 | Yes | Yes | 01-07-2016 | -- | Regular |
| 48 | Jadhav Subhash Vyankatrao | 49 | Assistant Professor | Male | M.Tech | 288 | Yes | Yes | 23-02-2011 | -- | Regular |
| 49 | Apate Sulbha Suhas | 64 | Professor | Female | Ph.D | 476 | Yes | Yes | 01-07-2016 | -- | Regular |
| 50 | Prashant Maruti Pawar | 40 | Professor | Male | Ph.D | 144 | Yes | Yes | 01-08-2008 | -- | Regular |
| 51 | Shinde Jyoti Sahadev | 39 | Assistant Professor | Female | M.E. | 192 | Yes | Yes | 01-12-2007 | -- | Regular |
| 52 | Pradnya Krishna Bhuse | 30 | Assistant Professor | Female | M.E. | 84 | Yes | Yes | 11-09-2016 | -- | Regular |
| 53 | Jagdale Satyawan Dagadu | 33 | Assistant Professor | Male | M.Tech | 96 | Yes | Yes | 15-06-2012 | -- | Regular |
| 54 | Shrikrishna Avinash Gosavi | 31 | Assistant Professor | Male | M.E. | 108 | Yes | Yes | 01-02-2017 | -- | Regular |
| 55 | Tamboli Dipti Amol | 40 | Assistant Professor | Female | M.Tech | 168 | Yes | Yes | 01-09-2007 | -- | Regular |
| 56 | Shinde Sahadev Maruti | 35 | Assistant Professor | Male | M.Tech | 143 | Yes | Yes | 12-11-2007 | -- | Regular |
| 57 | Sandipraj Yashwantrao Salunkhe | 41 | Assistant Professor | Male | M.E. | 216 | Yes | Yes | 02-02-2015 | -- | Regular |
| 58 | Jagadeesh Hallur | 31 | Assistant Professor | Male | M.Tech | 84 | Yes | Yes | 15-06-2017 | -- | Regular |
| 59 | Patil Dhanashree Vithalrao | 30 | Assistant Professor | Female | M.E. | 72 | Yes | Yes | 12-09-2017 | -- | Regular |
| 60 | Anil Mahadev Kasture | 28 | Assistant Professor | Male | M.Tech | 72 | Yes | Yes | 14-02-2016 | -- | Regular |
| 61 | Darshane Shrinivas Vasudev | 33 | Assistant Professor | Male | M.Tech | 120 | Yes | Yes | 02-05-2014 | -- | Regular |
| 62 | Bhosale Sachin Dinesh | 33 | Assistant Professor | Male | M.E. | 132 | Yes | Yes | 09-05-2011 | -- | Regular |
| 63 | Kulkarni Neeta Premkumar | 36 | Assistant Professor | Female | M.E. | 163 | Yes | Yes | 15-12-2009 | -- | Regular |
| 64 | SHEGDAR SUPRIYA ANANT | 27 | Assistant Professor | Female | M.E. | 48 | No | Yes | 01-07-2016 | -- | Regular |
| 65 | Salunkhe Santosh Bharat | 34 | Assistant Professor | Male | Ph.D | 132 | Yes | Yes | 03-03-2008 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 66 | Atole Seema Ashok | 26 | Assistant Professor | Female | M.E. | 9 | Yes | Yes | 01-11-2018 | -- | Regular |
| 67 | Shankar Uttam Bhanavase | 29 | Assistant Professor | Male | M.Sc. | 73 | Yes | Yes | 17-01-2017 | -- | Regular |
| 68 | Haridas Rangnath Nandkumar | 36 | Assistant Professor | Male | Ph.D | 159 | Yes | Yes | 15-06-2010 | -- | Regular |
| 69 | Mali Sonali Dattatraya | 27 | Assistant Professor | Female | M.Sc. | 49 | Yes | Yes | 05-08-2017 | -- | Regular |
| 70 | Awatade Maina Machindra | 36 | Assistant Professor | Female | Ph.D | 156 | Yes | Yes | 01-01-2017 | -- | Regular |
| 71 | Pukale Kuldip Suresh | 26 | Assistant Professor | Male | M.E. | 24 | Yes | Yes | 01-04-2018 | -- | Regular |
| 72 | Jadhav Shashikant Subhash | 28 | Assistant Professor | Male | M.Tech | 54 | No | Yes | 02-07-2018 | -- | Regular |
| 73 | Kalebag Vidya Gopinath | 28 | Assistant Professor | Female | M.E. | 60 | Yes | Yes | 17-06-2018 | -- | Regular |
| 74 | Pathan Aphrin Shabbir | 26 | Assistant Professor | Female | M.Tech | 12 | Yes | Yes | 07-06-2018 | -- | Regular |
| 75 | Pawar  Santaji Tanaji | 28 | Assistant Professor | Male | Ph.D | 19 | Yes | Yes | 01-01-2018 | -- | Regular |
| 76 | Daphale Dhanraj Dhamaraj | 25 | Assistant Professor | Male | M.Tech | 45 | No | Yes | 02-08-2018 | -- | Regular |
| 77 | Deshmukh Manik G | 54 | Assistant Professor | Male | M.Tech | 192 | Yes | Yes | 11-06-2018 | -- | Regular |
| 78 | Bhaganagare Prashant Balu | 27 | Assistant Professor | Male | M.Tech | 23 | No | Yes | 01-07-2018 | -- | Regular |
| 79 | Bhosale Rohini Ramchandra | 40 | Assistant Professor | Female | M. Phil | 160 | Yes | Yes | 08-01-2008 | -- | Regular |
| 80 | Patil Karan Babaso | 31 | Assistant Professor | Male | M. Phil | 120 | Yes | Yes | 16-08-2016 | -- | Regular |
| 81 | Hande Neelam Bhima | 29 | Assistant Professor | Female | M.Sc. | 84 | Yes | Yes | 15-06-2017 | -- | Regular |
| 82 | Chaudhary Dhananjay Shivaji | 37 | Assistant Professor | Male | Ph.D | 133 | Yes | Yes | 01-09-2014 | -- | Regular |
| 83 | Shinde Diksha Tukaram | 25 | Assistant Professor | Female | M.Sc. | 37 | Yes | Yes | 09-07-2017 | -- | Regular |
| 84 | Malge Archita vijaykumar | 40 | Assistant Professor | Female | M.Sc. | 98 | Yes | Yes | 09-05-2011 | -- | Regular |
| 85 | Chetan Chandrkant Jadhav | 27 | Assistant Professor | Male | M.Tech | 24 | Yes | Yes | 16-01-2018 | -- | Regular |
| 86 | More Sanjay Nivrutti | 33 | Assistant Professor | Male | M.Tech | 72 | Yes | Yes | 01-06-2018 | -- | Regular |
| 87 | Onkar Laxman Mahajan | 32 | Assistant Professor | Male | M.E. | 120 | Yes | Yes | 16-05-2018 | -- | Regular |
| 88 | Shinde Milind M | 30 | Assistant Professor | Male | M.E. | 12 | No | Yes | 01-06-2018 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | Kadam Sunil Dnyaneshwar | 30 | Assistant Professor | Male | M.Sc. | 18 | Yes | Yes | 20-01-2018 | -- | Regular |
| 90 | Akkireddy Shravankumar | 34 | Assistant Professor | Male | M.Tech | 141 | Yes | Yes | 10-06-2018 | -- | Regular |
| 91 | Patil Sonali Pandurang | 28 | Assistant Professor | Female | M.E. | 77 | Yes | Yes | 01-06-2018 | -- | Regular |
| 92 | Limkar Chetan Ramesh | 28 | Assistant Professor | Male | M.E. | 75 | Yes | Yes | 17-06-2018 | -- | Regular |
| 93 | Bhore Meenal Maruti | 41 | Assistant Professor | Female | M. Phil | 156 | Yes | Yes | 08-01-2008 | -- | Regular |
| 94 | Jagtap Salan Agatrao | 33 | Assistant Professor | Female | MBA | 108 | Yes | Yes | 15-06-2009 | -- | Regular |
| 95 | Ronge Suraj Babrwahan | 30 | Assistant Professor | Male | MBA | 60 | Yes | Yes | 01-09-2018 | -- | Regular |
| 96 | Sonwane Sachin Ashok | 40 | Associate Professor | Male | Ph.D | 192 | Yes | Yes | 16-05-2019 | -- | Regular |
| 97 | Kachare Pravin Sudhakar | 46 | Associate Professor | Male | Ph.D | 264 | Yes | Yes | 10-08-1998 | -- | Regular |
| 98 | Kulkarni Milind Balbhim | 39 | Assistant Professor | Male | M.E. | 186 | Yes | Yes | 01-01-2019 | -- | Regular |
| 99 | Solage Rameshwar Dnyaneshwar | 29 | Associate Professor | Male | M.E. | 72 | Yes | Yes | 01-02-2019 | -- | Regular |
| 100 | Shinde Amitkumar Ashokrao | 33 | Assistant Professor | Male | M.Tech | 102 | Yes | Yes | 07-02-2019 | -- | Regular |
| 101 | Pranali Balkrishna Kashid | 25 | Assistant Professor | Female | M.E. | 29 | Yes | Yes | 20-06-2019 | -- | Regular |
| 102 | Patil Neha Shivajirao | 26 | Assistant Professor | Female | M.E. | 36 | Yes | Yes | 01-06-2018 | -- | Regular |
| 103 | Nandkumar S Admile | 27 | Assistant Professor | Male | M.E. | 59 | Yes | Yes | 09-02-2019 | -- | Regular |
| 104 | Shamli Vilas Jagzap | 28 | Assistant Professor | Female | M.E. | 5 | Yes | Yes | 01-03-2019 | -- | Regular |
| 105 | Geeta G Unhale | 26 | Assistant Professor | Female | M.E. | 23 | Yes | Yes | 12-01-2019 | -- | Regular |
| 106 | Shrishail Prakash Swami | 32 | Assistant Professor | Male | M.Tech | 55 | Yes | Yes | 12-01-2019 | -- | Regular |
| 107 | Bhuvaneshwari Chandrashekharayya Melinamath | 48 | Professor | Female | Ph.D | 300 | Yes | Yes | 01-06-2019 | -- | Regular |
| 108 | Maske Nitin Maruti | 29 | Assistant Professor | Male | M.E. | 37 | Yes | Yes | 01-04-2017 | -- | Regular |
| 109 | Supriya Shrikrushna Bhosale | 34 | Assistant Professor | Female | M.E. | 100 | Yes | Yes | 01-01-2019 | -- | Regular |
| 110 | Pratik Keshavrao Kurzekar | 30 | Assistant Professor | Male | M.E. | 12 | Yes | Yes | 01-01-2019 | -- | Regular |
| 111 | Dhanawe Suraj Anil | 30 | Assistant Professor | Male | M.E. | 35 | Yes | Yes | 01-01-2019 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 112 | Rupali Milind Shinde | 29 | Assistant Professor | Female | M.E. | 12 | Yes | Yes | 01-01-2019 | -- | Regular |
| 113 | Harun Mujjamil Tamboli | 33 | Assistant Professor | Male | M.E. | 12 | Yes | Yes | 12-01-2019 | -- | Regular |
| 114 | Trupti Arun Dhumal | 28 | Assistant Professor | Female | M.E. | 12 | Yes | Yes | 19-01-2019 | -- | Regular |
| 115 | Nimisha Dinesh Deval | 25 | Assistant Professor | Female | M.E. | 12 | Yes | Yes | 13-01-2019 | -- | Regular |
| 116 | Vinayak Macchindra Sale | 38 | Assistant Professor | Male | M.Tech | 154 | Yes | Yes | 02-01-2019 | -- | Regular |
| 117 | Ranganath Dattatraya Kulkarni | 31 | Assistant Professor | Male | M.Tech | 74 | Yes | Yes | 05-02-2019 | -- | Regular |
| 118 | Abhinandan Ajitkumar Sangave | 26 | Assistant Professor | Male | M.Tech | 24 | Yes | Yes | 06-12-2018 | -- | Regular |
| 119 | Ganesh Siddheshwar Pawar | 24 | Assistant Professor | Male | M.Sc. | 12 | Yes | Yes | 10-05-2019 | -- | Regular |
| 120 | Hemchandra Ramesh Pawar | 33 | Assistant Professor | Male | M.Tech | 12 | Yes | Yes | 06-06-2019 | -- | Regular |
| 121 | Yunussalim Babulal Patel | 43 | Assistant Professor | Male | M.Tech | 24 | Yes | Yes | 11-10-2018 | -- | Regular |
| 122 | Ranjitsinh Subhash Pawar | 34 | Assistant Professor | Male | Ph.D | 24 | Yes | Yes | 13-06-2019 | -- | Regular |
| 123 | Raul Madhav Kamlakar | 37 | Associate Professor | Male | Ph.D | 185 | Yes | Yes | 01-06-2007 | -- | Regular |
| 124 | Haridas Hanmant Pawar | 33 | Assistant Professor | Male | Ph.D | 128 | Yes | Yes | 01-01-2019 | -- | Regular |
| 125 | Harshada Maruti Gove | 26 | Assistant Professor | Female | M.Sc. | 25 | Yes | Yes | 10-06-2019 | -- | Regular |
| 126 | Nilesh Tatyasaheb Salunkhe | 26 | Assistant Professor | Male | M.Sc. | 41 | Yes | Yes | 01-01-2019 | -- | Regular |
| 127 | Rahul Pandurang Nagane | 32 | Assistant Professor | Male | M.A | 73 | Yes | Yes | 06-06-2019 | -- | Regular |
| 128 | Bapuso Sitaram Savase | 29 | Assistant Professor | Male | M. Phil | 60 | Yes | Yes | 20-05-2019 | -- | Regular |
| 129 | Pravin Sudam More | 27 | Assistant Professor | Male | MBA | 36 | Yes | Yes | 01-01-2019 | -- | Regular |
| 130 | Archana Navnath Gaikwad | 26 | Assistant Professor | Female | MBA | 10 | Yes | Yes | 01-04-2019 | -- | Regular |
| 131 | Prashant Kedarnath Magadum | 42 | Assistant Professor | Male | M.Tech | 72 | Yes | Yes | 02-06-2019 | -- | Regular |
| 132 | Mahesh Shivappa Yadrami | 31 | Assistant Professor | Male | M.Tech | 88 | Yes | Yes | 01-06-2019 | -- | Regular |
| 133 | Sudarshan Chandrasen Ukirade | 28 | Assistant Professor | Male | M.Tech | 2 | Yes | Yes | 02-05-2019 | -- | Regular |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 134 | Rohan Pradeep Shinde | 30 | Assistant Professor | Male | M.Tech | 84 | Yes | Yes | 10-05-2019 | -- | Regular |
| 135 | Chirra Anitha | 32 | Assistant Professor | Female | M.Tech | 108 | Yes | Yes | 12-06-2018 | -- | Regular |
| 136 | Gidde Ranjit Ramkrishna | 44 | Assistant Professor | Male | Ph.D | 149 | Yes | Yes | 07-08-2007 | -- | Regular |
| 137 | Vikram Ramdas Chavan | 27 | Assistant Professor | Male | M.E. | 50 | Yes | Yes | 01-01-2017 | -- | Regular |

Institute ID: IR-E-C-15762
Institute Name: College of Engineering

## Sanctioned (Approved) Intake

| Academic Year | 2017-18 | 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|---|---|---|---|---|---|---|
| UG [4 Years Program(s)]: Sanctioned (approved) students intake | 420 | 420 | 420 | 420 | --- | --- |
| PG [2 Years Program(s)] | 132 | 132 | --- | --- | --- | --- |

## Total Actual Student Strength (Program(s) Offered by Your Institution)

| (All programs of all years) | No. of Male Students | No. of Female Students | Total Students | Within State (Including male & female) | Outside State (Including male & female) | Outside Country (Including male & female) | Economically Backward (Including male & female) | Socially Challenged (SC+ST+OBC Including male & female) | No. of students receiving full tuition fee reimbursement from the State and Central Government | No. of students receiving full tuition fee reimbursement from Institution Funds | No. of students receiving full tuition fee reimbursement from the Private Bodies | No. of students who are not receiving full tuition fee reimbursemen |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UG [4 Years Program(s)] | 1015 | 838 | 1853 | 1845 | 8 | 0 | 669 | 997 | 605 | 0 | 0 | 1061 |
| PG [2 Years Program(s)] | 90 | 67 | 157 | 157 | 0 | 0 | 0 | 65 | 0 | 0 | 0 | 65 |

## Placement & Higher Studies

**UG [4 Years Program(s)]: Placement & higher studies for previous 3 years**

| Academic Year | No. of first year students intake in the year | No. of first year students admitted in the year | Academic Year | No. of students admitted through Lateral entry | Academic Year | No. of students graduating in minimum stipulated time | No. of students placed | Median salary of placed graduates (Amount in Rs.) | No. of students selected for Higher Studies |
|---|---|---|---|---|---|---|---|---|---|
| (2012-13) | 480 | 418 | (2013-14) | 163 | (2015-16) | 467 | 299 | 250000 (Two Lakh Fifty Thousand) | 24 |
| (2013-14) | 480 | 321 | (2014-15) | 215 | (2016-17) | 473 | 333 | 260000 (Two Lakh Sixty Thousand) | 15 |
| (2014-15) | 420 | 287 | (2015-16) | 201 | (2017-18) | 481 | 356 | 250000 (Two Lakh Fifty Thousand) | 29 |

**PG [2 Years Program(s)]: Placement & higher studies for previous 3 years**

| Academic Year | No. of first year students intake in the year | No. of first year students admitted in the year | Academic Year | No. of students graduating in minimum stipulated time | No. of students placed | Median salary of placed graduates (Amount in Rs.) | No. of students selected for Higher Studies |
|---|---|---|---|---|---|---|---|
| (2014-15) | 150 | 81 | (2015-16) | 49 | 0 | 0 (Zero) | 0 |
| (2015-16) | 132 | 109 | (2016-17) | 48 | 0 | 0 (Zero) | 0 |
| (2016-17) | 132 | 78 | (2017-18) | 48 | 0 | 0 (Zero) | 0 |

## Ph.D Student Details

**Ph.D (Student pursuing doctoral program till 2017-18; Students admitted in the academic year 2018-19 should not be entered here)**

| | Total Students |
|---|---|
| Full Time | 14 |
| Part Time | 0 |

**No. of Ph.D students graduated (including Integrated Ph.D)**

| | 2017-18 | 2016-17 | 2015-16 |
|---|---|---|---|
| Full Time | 3 | 1 | 1 |
| Part Time | 0 | 0 | 0 |

# APPENDIX-III

# COLLABORATIVE INITIATIVES WITH OTHER INSTITUTIONS

# Academic Year 2015-16

*3.5.1Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year*

**Academic Year 2015-16**

| Title of the collaborative activity | Name of the collaborating agency with contact details | Name of the participant | Year of collaboration | Duration | Nature of the activity | Link to the relevant document |
|---|---|---|---|---|---|---|
| Student Industrial Visits | Prolific System & Technologies Pvt. Ltd., PUnCA Inspiring Solutions, Technocrats Forum | SE | 2015-16 | Three Days | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/Prolific Systems.pdf |
| Student Industrial Visits | Ideaz multimedia Kolhapur, Akashwani Kendra Ratnagiri | SE | 2015-16 | Two days | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/Ideaz multimedia_Aakashwani kendra.pdf |
| Student Industrial Visits | Persistent, Pune | TE A | 2015-16 | one day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/Persistent.pdf |
| Student Industrial Visits | Ideaz multimedia, DBM Infotech Pvt. Ltd, Unichronic SIM Pvt. Ltd. | TE B | 2015-16 | Three Day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/Ideaz multimedia_Unichronic SIM.pdf |
| Student Industrial Visits | Ideaz multimedia Protocol Infotech Pvt. Ltd, Speed TechServe Pvt. Ltd., Ditini Technical Solution Satara. | BE A, B, C | 2015-16 | Three Day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/Ideaz multimedia Compserves consultants and Expert web solutions.docx.pdf |

| Academic Year 2015-16 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| One month training | DBM Infotech Pvt. Ltd., Pune | Prof. M. R. More | 2015-16 | 15 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/MRM.pdf |
| One month training | DBM Infotech Pvt. Ltd., Pune | Prof. J. D. Bokefode | 2015-16 | 15 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/JDB.pdf |
| One month training | Speed Techserve Pvt. Ltd., Pune | Prof. S. L. Utpat | 2015-16 | 30 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/SLU.pdf |
| Vocational Training | Gayatri Infotech, Solapur | Ms. Aishwarya Deshmukh | 2015-16 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2015-16.pdf |
| Vocational Training | AB Software Solutions, Pune | Ms. Aishwarya Sawant | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | FullOn Entertainment Ventures, Pune | Ms. Apurva Deshpande | 2015-16 | 15 Days | Vocational Training | |

| Academic Year 2015-16 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | Splashgain Technology SolutionsPvt., Pune | Mr. Pratik Bhiste | 2015-16 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2015-16.pdf |
| Vocational Training | NIIT Solapur Center | Ms. Channamma Kavathe | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Eton India Pvt. Ltd. Pune | Ms. Vaibhavi Deshpande | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Shivam Computers, Satara | Mr. Shiraj Khandare | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | AFTEK Ltd. Solapur | Ms. Dipali Chavan | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Newgen Infotech Pvt. Ltd. Pune | Ms. Deepika Hiwrale | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Yash Computer, Barshi | Ms. Gauri Gholap | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | AFTEK Ltd. Solapur | Ms. Gayatri Shinde | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Splashgain Technology SolutionsPvt., Pune | Mr. Ganesh Gobbur | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Chaitnya Computer training Institute, Pune | Ms. Kavita Mane | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Gayatri Infotech, Solapur | Ms. Shruti Kadam | 2015-16 | 15 Days | Vocational Training | |

| Academic Year 2015-16 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | Computer Training Council Board, Maharashtra | Ms. Manali Kambale | 2015-16 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2015-16.pdf |
| Vocational Training | Chaitnya Computer training Institute, Pune | Ms. Monali Jadhav | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | TechnoScripts, Pune | Mr. Tabassum Nadaf | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | TechnoScripts, Pune | Mr. Aishwarya Nagtilak | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Manorama Infotech, Pune | Ms. Nandini Bachute | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | TechnoScripts, Pune | Ms. Shubhangi Nagagoje | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Prakrut Software Solutions Pvt. Ltd. Pune | Mr. Nikhil Kulkerni | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Chaitnya Computer training Institute, Pune | Ms. Pingale Yuvraj | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | SuYash Computers, Barshi | Ms. Prachi Bhosale | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Shri Samarth Computers , Indapur | Ms. Priyanka Vyavahare | 2015-16 | 15 Days | Vocational Training | |

## Academic Year 2015-16 (Continued..)

| Title of the collaborative activity | Name of the collaborating agency with contact details | Name of the participant | Year of collaboration | Duration | Nature of the activity | Link to the relevant document |
|---|---|---|---|---|---|---|
| Vocational Training | Gayatri Infotech, Solapur | Ms. Priyanka Ghodage | 2015-16 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2015-16.pdf |
| Vocational Training | Soso Infotech pvt. Ltd, Pune | Ms. Priyanka Jadhavar | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | AFTEK Ltd. Solapur | Ms. Pooja Khule | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Full On Entertainment Ventures, Pune | Ms. Rajnandini Bhaiya | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | AFTEK Ltd. Solapur | Ms. Rani Khule | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | NewSoft Solution, Solapur | Ms. Megha Sabale | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Gayatri Infotech, Solapur | Ms. Vishakha Shete | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Carraro India, Pune | Ms. Shradha Shimpale | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | AFTEK Ltd. Solapur | Ms. Shradha Kawade | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | AFTEK Ltd. Solapur | Ms. Shubhangi Agawane | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Newgen Infotech Pvt. Ltd. , Pune | Ms. Seema Patil | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Manorama Infotech, Pune | Ms. Sneha More | 2015-16 | 15 Days | Vocational Training | |

| Academic Year 2015-16 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | TechnoScripts, Pune | Ms. Sujata Koli | 2015-16 | 15 Days | Vocational Training | Continued… https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2015-16.pdf |
| Vocational Training | Splashgain Technology SolutionsPvt., Pune | Mr. Shripad Tarapurkar | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Prakrut Software Solutions Pvt. Ltd. Pune | Ms. Tejashree Bagal | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | AB Software Solutions, Pune | Ms. Tejashree Sawant | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | Prakrut Software Solutions Pvt. Ltd. Pune | Ms. Trupti Chavan | 2015-16 | 15 Days | Vocational Training | |
| Vocational Training | TechNex Technologies Pvt. Ltd., Pune | Mr. Vikas Ejgar | 2015-16 | 15 Days | Vocational Training | |
| Student Industrial Visit | Baliraja Cold Strage, Pandharpur | BE Students - 140 | 2015-16 | 30-09-2016 | BE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_BE_SEM-I_16-17.pdf |

| Academic Year 2015-16 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Industrial Visit | Top Gear Transmission, Satara | SE Students - 121<br>Faculty - 07 | 2015-16 | 18/09/2015 & 19/09/2015 | SE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_SE_SEM-I & II_15-16.pdf |
| Student Industrial Visit | Marvelous Metal, Kolhapur, Mahesh Forge, Kolhapur, Jadhav Foundary, Kolhapur, Swan Plastic Products, Kolhapur | SE Students - 150<br>Faculty - 08 | 2015-16 | 09/03/2016 & 10/03/2016 | SE Industrial Visit | |
| Student Industrial Visit | Indo German Tool Room, Aurangabad MSPGCL Hydropower Station, Paithan | TE Students - 114 | 2015-16 | 22/09/2015 to 23/09/2015 | TE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_TE_SEM-I & II_15-16.pdf |
| Student Industrial Visit | Aviraj Industries, Kolhapur, P.R. Engineering, DCPL, Mahalakshmi Aluminium Kolhapur, Sunil Industries, Kolhapur | TE Students - 130<br>Faculty - 08 | 2015-16 | 26/03/2016 & 27/03/2016 | TE Industrial Visit | |
| Student Industrial Visit | MSRTC ST Depot, Pandharpur | BE Students - 80 | 2015-16 | 21-10-2015 | BE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_BE_SEM-I & II_15-16.pdf |
| Student Industrial Visit | Kothari Agritech Pvt. Ltd. Mohol | BE Students - 134 | 2015-16 | 05/03/2016 & 21/03/16 | BE Industrial Visit | |

| Academic Year 2015-16 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Link to the relevant document** |
| Faculty Industrial Training | Sunil Industries, Kolhapur | Mr. S. S. Gaikwad | 2015-16 | 26/04/2016 to 25/05/2016 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/SSG.pdf |
| Faculty Industrial Training | M/s. Shri Datta Plastic, Solapur | Mr. S. B. Fand | 2015-16 | 26/04/2016 to 25/05/2016 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/SBF.pdf |
| Faculty Industrial Training | Prathamesh Enterprises, Kolhapur | Mr. S. Y. Salunkhe | 2015-16 | 17/11/2015 to 17/12/2015 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/SYS.pdf |
| Faculty Industrial Training | Sunil Industries, Kolhapur | Mr. R. V. Dokate | 2015-16 | 17/11/2015 to 17/12/2015 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/RVD.pdf |
| Guest Lecture | PWD,Solapur | Final Year Students | 2015-16 | 5/7/2015 | Guest Lecture | https://naac.sveri.ac.in/Criteria_3/3_5_1/Guest 15-16 Civil.pdf |
| Guest Lecture | Revenue Department of Gov. Of Maharashtra | Second Year Students | 2015-16 | 12/7/2015 | Guest Lecture | |
| Guest Lecture | L&T,Mumbai | Third Year Students | 2015-16 | 9/8/2015 | Guest Lecture | |
| Guest Lecture | Maharashtra Jeevan Pradhkaran, Pandharpur | Final Year Students | 2015-16 | 3/9/2015 | Guest Lecture | |

| Academic Year 2015-16 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Link to the relevant document** |
| Guest Lecture | ACC Cement Ltd. | Third Year Students | 2015-16 | 12/9/2015 | Guest Lecture | Continued..<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Guest 15-16 Civil.pdf |
| Guest Lecture | Rohan Builders,Pune | Third Year Students | 2015-16 | 15/2/2016 | Guest Lecture | |
| Guest Lecture | S.P.Infracity, Hadpsar,pune | Second Year Students | 2015-16 | 15/2/2016 | Guest Lecture | |
| Guest Lecture | Nayab Tashildar | Second Year Students | 2015-16 | 26/2/2016 | Guest Lecture | |
| Guest Lecture | Indian Institute of Science Bangolare, India | Third Year Students | 2015-16 | 15/2/2016 | Guest Lecture | |
| Guest Lecture | CEO,Infinity, Pune | Third Year Students | 2015-16 | 3/3/2016 | Guest Lecture | |
| Guest Lecture | S.B.Patil College of Engineering Indapur | Third Year Students | 2015-16 | 22/3/2016 | Guest Lecture | |
| Guest Lecture | Symbosis Institute of Technology,Pune | Second Year Students | 2015-16 | 26/3/2016 | Guest Lecture | |
| Guest Lecture | Walchand College of Engineering Sangli | Third Year Students | 2015-16 | 15/1/2017 | Guest Lecture | |

# Academic Year 2016-17

| Academic Year 2016-17 | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| One month training | Treezee-E solutions pvt. Ltd., Mumbai | Mr. S. V. Darshane | 2016-17 | 25 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/SVD.pdf |
| Vocational Training | Technowings International IT Solution, Pune | Mr. Abhivant Sugreev | 2016-17 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2016-17.pdf |
| Vocational Training | | Mr. Akshay Jathar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Amruta Arjun | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms Priyanka Asabe | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Ashtekar Namrata | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Vidyarani Bagal | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Tanjila Bagwan | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Radhika Bahirat | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Rahul Bansode | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Priyanka Bhadule | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pooja Bodake | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Dhiraj Bodhale | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Chaitali Chavan | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sonali Chavan | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Ashwini Chougule | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Parvati Dagade | 2016-17 | 15 Days | Vocational Training | |

| Academic Year 2016-17 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Industrial Training | Numberrs, Pune | Ms. Dipanwita Deb | 2016-17 | 15 Days | Industrial Training | *Continued …* https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2016-17.pdf |
| Vocational Training | Technowings International IT Solution, Pune | Ms.Varsha Deokar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Jayashree Devkule | 2016-17 | 15 Days | Vocational Training | |
| Inplant Training | Techsys Informatics, Pune | Ms. Namrata Dhavare | 2016-17 | 15 Days | Inplant Training | |
| Vocational Training | Technowings International IT Solution, Pune | Ms. Swati Dhekane | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Neha Didwal | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Diksha Yergattikar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pooja Doifode | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Dhawal Dyavanpalli | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pritilata Fartade | 2016-17 | 15 Days | Vocational Training | |
| Inplant Training | Techsys Informatics, Pune | Ms. Gauri Solankar | 2016-17 | 15 Days | Inplant Training | |
| Vocational Training | Technowings International IT Solution, Pune | Mr. Harshdip Ghaterao | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Ajinkya Ghodake | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Kajal Ghodeswar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Komal Ghodeswar | 2016-17 | 15 Days | Vocational Training | |

| Academic Year 2016-17 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | Technowings International IT Solution, Pune | Ms. Gouri Jadhav | 2016-17 | 15 Days | Vocational Training | *Continued ...* https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2016-17.pdf |
| Vocational Training | | Ms. Manisha Gurav | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Kiran Jadhav | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Ashwini Jadhav | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Priya Jadhav | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Karishma Jagdale | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Samadhan Jagdale | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Javheri Aishwarya | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Jui Bahirat | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Sachin Kadam | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Arati Kale | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sharayu Kamble | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Varsha Kantule | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Bhagyashri Katare | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Preeti Karki | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Kedar Patil | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Samrath Keskar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sukeshani Kokare | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sarika Kokare | 2016-17 | 15 Days | Vocational Training | |

| Academic Year 2016-17 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | Technowings International IT Solution, Pune | Ms. Koli Shruti | 2016-17 | 15 Days | Vocational Training | *Continued…* |
| Vocational Training | | Mr. Rohit Konde | 2016-17 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2016-17.pdf |
| Vocational Training | | Ms. Kanchan Labade | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pradnya Lade | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sonal Lamkane | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Punam Lavand | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Renuka Lengare | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Snehal Limburkar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Mahera Bohari | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Nishigandha Mali | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Aditi Malikpethkar | 2016-17 | 15 Days | Vocational Training | |
| Inplant Training | Techsys Informatics, Pune | Ms. Admile Komal | 2016-17 | 15 Days | Inplant Training | |
| Inplant Training | Techsys Informatics, Pune | Ms. Sneha Mane | 2016-17 | 15 Days | Inplant Training | |

| Academic Year 2016-17 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | Technowings International IT Solution, Pune | Ms. Pooja Mane Patil | 2016-17 | 15 Days | Vocational Training | *Continued...* |
| Vocational Training | | Ms. Ruchika Mengar | 2016-17 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2016-17.pdf |
| Vocational Training | | Ms. Priyanka Mhaske | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Shubham Mhetre | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Tabassum Mujawar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Priyanka Mule | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Saumya Nasshikar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Onkar Borade | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Onkar Panchal | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Shubham Pardeshi | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Patel Shaheen | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Patil Soudagar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Shubham Patil | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Yashashri Patil | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Shubham Pawar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Aishwarya R. Pawar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sanjivani Pawar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Aishwarya A. Pawar | 2016-17 | 15 Days | Vocational Training | |

| Academic Year 2016-17 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | | Ms. Rupali Pawar | 2016-17 | 15 Days | Vocational Training | *Continued…* |
| Vocational Training | | Mr. Tirupati Payghan | 2016-17 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2016-17.pdf |
| Vocational Training | | Ms. Yashodha Pingale | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Tejashri Pitke | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pooja Chavan | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Rohit Pore | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Prajkta Bongale | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Priyanka Mhaske | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sayali Ranaware | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sujata Rane | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Amit Raut | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pooja Raut | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Amruta Rokade | 2016-17 | 15 Days | Vocational Training | |

| Academic Year 2016-17 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Inplant Training | Techsys Informatics, Pune | Ms. Pradnya Pawar | 2016-17 | 15 Days | Inplant Training | *Continued…* |
| Inplant Training | Techsys Informatics, Pune | Ms. Sandhya Madane | 2016-17 | 15 Days | Inplant Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2016-17.pdf |
| Vocational Training | Technowings International IT Solution, Pune | Mr. Sanket Kulkerni | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Poonam Sawant | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Anisha Shaikh | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Komal Shinde | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shobha Patole | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shweta Padman | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | ARD Softtech Pvt. Ltd., Pune | Ms. Snehal Murumkar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | Technowings International IT Solution, Pune | Ms. Shrushti Somshettee | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Vaishnavi Talkokul | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Saif Tamboli | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Saurabh Tendulkar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shweta Tuljapurkar | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Unholi Nikita | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Suraj Varpe | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Onkar Vastre | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pooja Velapure | 2016-17 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Manasi Waghmare | 2016-17 | 15 Days | Vocational Training | |

| Academic Year 2016-17 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Research Paper | Rajiv Gandhi Science and Technology Commission, Mumbai, & Bhabha Atomic Research Centre, Mumbai | Anil Kakodkar, Babruvahan Ronge, Ajit Patankar, Smita Mule and Prashant Pawar | 2016-17 | 2/25/2017 | Current Science, Vol. 112, No. 4, | http://www.barc.gov.in/akruti-tp/akruti_article1.pdf |
| Student Industrial Visit | Marvelous Metal, Kolhapur, Mahesh Forge, Kolhapur | SE Students - 135 Faculty - 09 | 2016-17 | 08/09/2017 & 09/09/2017 | SE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_SE_SEM-I_17-18.pdf |
| Student Industrial Visit | Pandharpur Nagarpalika, Pandharpur | TE Students - 155 Faculty - 06 | 2016-17 | 9/9/2017 | TE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_TE_SEM-I & II_17-18.pdf |
| Student Industrial Visit | Aviraj Industries, Kolhapur, P.R. Engineering, DCPL, Mahalakshmi Aluminium Kolhapur | TE Students - 162 | 2016-17 | 30/03/2017 & 31/03/2017 | TE Industrial Visit | |
| Student Industrial Visit | Top Gear Transmission, Satara Yashwantrao Mohite Krushna S.S.K. Limited, Retre (Bk.), Karad | SE Students - 140 | 2016-17 | 24/09/2016 & 25/09/2016 | SE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_SE_SEM-I & II_16-17.pdf |
| Student Industrial Visit | Marvelous Metal, Kolhapur, Mahesh Forge, Kolhapur, Jadhav Foundary, Kolhapur, DCPL, Kolhapur | SE Students - 150 | 2016-17 | 14/03/2017 & 15/03/2017 | SE Industrial Visit | |
| Faculty Industrial Training | Conveytech Industries, Pune | Mr. A. A. Mote | 2016-17 | 04/05/2017 to 04/06/2017 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/AAM.pdf |

| Academic Year 2016-17 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Guest Lecture | Nagesh Karajagi Orchid College of Engineerin and Technology | Third Year Students | 2016-17 | 31/1/2017 | Guest Lecture | https://drive.google.com/file/d/1bazA8eYgu50BxKancivI6B1Jt32Jp69a/view?usp=sharing |
| Guest Lecture | Nagesh Karajagi Orchid College of Engineerin and Technology | Third Year Students | 2016-17 | 15/2/2017 | Guest Lecture | |
| Guest Lecture | Nagesh Karajagi Orchid College of Engineerin and Technology | Third Year Students | 2016-17 | 23/3/2017 | Guest Lecture | |
| Guest Lecture | Nagesh Karajagi Orchid College of Engineerin and Technology | Third Year Students | 2016-17 | 17/4/2017 | Guest Lecture | |

# Academic Year 2017-18

| Academic Year 2017-18 | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Research Paper | National Institute of Technology Silchar, Silchar, Assam | Sandeep Sitaram Wangikara, Promod Kumar Patowari & Rahul Dev Misra | 2017-18 | One day | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/SSW 1.pdf |
| Research Paper | NIT Silchar, Silchar, Assam | Sankha Shuvra Das Shivkant D. Tilekar Promod K. Patowari, Sandeep S. Wangikar | 2017-18 | 7/6/2017 | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/SSW 3.pdf |
| Research Paper | National Institute of Technology Silchar, Silchar, Assam | Sandeep Sitaram Wangikara, Promod Kumar Patowari, Rahul Dev Misra | 2017-18 | 3/24/2018 | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/SSW 4.pdf |
| Research Paper | Raja Ramanna Centre for Advanced Technology, Indore, Madhya Pradesh | Ranjitsinha R. Gidde Prashant M. Pawar Babruvahan P. Ronge, vishal p. Dhamgaye | 2017-18 | 9/6/2018 | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/RRG 1.pdf |
| Research Paper | National Institute of Technology Silchar, Silchar, Assam | Sandeep Sitaram Wangikara, Promod Kumar Patowaria, Rahul Dev Misraa | 2017-18 | 2/20/2018 | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/SSW 2.pdf |
| Student Industrial Visits | Infosys Ltd. Hinjewadi | BE A, B, C | 2017-18 | one day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/Infosys.docx.pdf |
| Student Industrial Visits | AB Software solutions, Satara, Magicanet wireless, Khopoli. | TE A | 2017-18 | Two day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/AB%20Solution.pdf |
| **Academic Year 2017-18 (Continued..)** | | | | | | |

| Title of the collaborative activity | Name of the collaborating agency with contact details | Name of the participant | Year of collaboration | Duration | Nature of the activity | Link to the relevant document |
|---|---|---|---|---|---|---|
| Sponsored Project | Aediefico Pvt, Ltd. New Delhi | Ms. Patil Maheshwari, Ms. Murumkar Snehal, Ms. More Sneha, Ms. Londhe Nikita | 2017-18 | One Year | Sponsored Project | https://naac.sveri.ac.in/Criteria_3/3_5_1/SE and TE A II.pdf |
| Sponsored Project | Aediefico Pvt, Ltd. New Delhi | Ms. Kalyani Krnawal, Ms. Priyanka, Ms. Harshali Phulare, Ms. Vijaylaxmi Gund | 2017-18 | One Year | Sponsored Project | https://naac.sveri.ac.in/Criteria_3/3_5_1/SE and TE A II.pdf |
| Sponsored Project | Aediefico Pvt, Ltd. New Delhi | Ms. Sonali Padulkar, Ms. Seema Gaikwad, Ms. Sneha Barawkar | 2017-18 | One Year | Sponsored Project | |
| One month training | Pawar Info-Tech, Hydrabad | Mr. S. M. Kumbhar | 2017-18 | 30 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/SMK.pdf |
| One month training | Insightant Technology Solutions Pvt. Ltd. Pune | Ms. R. R. Shinde | 2017-18 | 15 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/RRS.pdf |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | Technowings International IT Solution, Pune | Ms. Smita Narkhedkar | 2017-18 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VT with Summary 2017-18.pdf |
| Vocational Training | | Ms. Priti Bhosale | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pratiksha Shindepatil | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sneha Padwal | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shrutika Musale | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Ratnaprabha More | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Ayesha Mulani | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Ganesh Rananavare | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Snehal Kamble | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Srushti Dhavale | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sukeshanee Shinde | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Priyanka Bhosale | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Bharat Sutar | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Pankaj Shinde | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Abhijeet Patil | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Pratap Madgundi | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sanjana Bokefode | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Tabassum Tamboli | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sanam Maske | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Mayur Patil | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Monika Khapale | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Navina Bhairi | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Nikita Kamble | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Omkar Khoje | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Kiran Kasulwar | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Kajal Kumbhar | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Madhura Shinde | 2017-18 | 15 Days | Vocational Training | |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | *Continued..*<br><br>Technowings International IT Solution, Pune | Ms. Anand Mali | 2017-18 | 15 Days | Vocational Training | *Continued..*<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/VT with Summary 2017-18.pdf |
| Vocational Training | | Ms. Himangi Doke | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Manasi Jagalpure | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Kajal Landage | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Tanaji Kumbhar | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sandhyarani Tekale | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Vaibhav Khabani | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pooja Vibhute | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Smita Yadav | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Abhinav Anand | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Archana More | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Aparna Bhui | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Dharmaraj Patil | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shivashri Gonjari | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Shubham Shirur | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Supriya Kambale | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Prajkta Sugandhi | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sonali Kachare | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Snehal Bhosale | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shrilekha Narkhedkar | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Khushali Rane | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Priya Landage | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Preeti Kale | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pratiksha Ghogare | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pradipta Mahimkar | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Rutuja Patil | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Pandurang Dandage | 2017-18 | 15 Days | Vocational Training | |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | *Continued..*<br><br>Technowings International IT Solution, Pune | Ms. Sapna Nimbalkar | 2017-18 | 15 Days | Vocational Training | *Continued..*<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/VT with Summary 2017-18.pdf |
| Vocational Training | | Ms. Neha Babar | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Rohit Nagtilak | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Vishal Munguskar | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Harshad More | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Apurva Mohite | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Rutuja Patil | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Manjusha Limbitote | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Kajal Mali | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Gauri Ligade | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Apurva Kshirsagar | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Dipali Kamble | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Jyoti Shinde | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Rajkumar Madhuri | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Rupali Gurav | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Girija Dixit | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Akash Deshmukh | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Avinash Lad | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Aishwarya Gurav | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Minakshi Bhosale | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Vidya Khadke | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Vaishnavi Randive | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Akshay Topage | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Tejaswini Chavan | 2017-18 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shradha Dhasade | 2017-18 | 15 Days | Vocational Training | |
| Vacational Training | AFTEK Limited Solapur | ADHATRAO MADHAV PRAKASH | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_164104.jpg |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | AFTEK Limited Solapur | ANANTPURE MOKSHADA RAMLING | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155037.jpg |
| Vacational Training | AFTEK Limited Solapur | ATAR SHAHISTA IQBAL | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154526.jpg |
| Vacational Training | AFTEK Limited Solapur | AWATADE VAISHNAVI VITTHAL | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_162906.jpg |
| Vacational Training | MAHA VITARAN O & S divisin Pandharpur | BHOSALE PAYAL DNYANESHWAR | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154855.jpg |
| Vacational Training | AFTEK Limited Solapur | BHOSALE SWAPNALI SUDHAKAR | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155628.jpg |
| Vacational Training | HD Imensions Infotech Pune | BIRADAR ABHISHAKTA SUBHASH | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163524.jpg |
| Vacational Training | Bharat Sanchar Nigam Limited Solapur | BUBANE VAIBHAVI KANTILAL | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155745.jpg |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | AFTEK Limited Solapur | CHAVAN BANUBAI DATTATRAY | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163257.jpg |
| Vacational Training | AFTEK Limited Solapur | DESHMUKH SNEHAL UTTAM | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_164027.jpg |
| Vacational Training | AFTEK Limited Solapur | DESHPANDE KRANTI DAMAJI | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163007.jpg |
| Vacational Training | Electrosal HI-Tech.pvt.Ltd | DHOTRE PRIYANKA MAHESH | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_162923.jpg |
| Vacational Training | Bharat Sanchar Nigam Limited Solapur | DINGARE KRISHNA SADANAND | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_164054.jpg |
| Vacational Training | Sathe Engineering .co Solapur | DIXIT PRIYANKA SUNIL | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163845.jpg |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | MAHA VITARAN O & S division Pandharpur | GADEKAR SAYALI SUDHAKAR | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163612.jpg |
| Vacational Training | AFTEK Limited Solapur | GAIKWAD KARTIKI PRAKASH | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155357.jpg |
| Vacational Training | AFTEK Limited Solapur | GAIKWAD PRATIKSHA ARUN | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155111.jpg |
| Vacational Training | AFTEK Limited Solapur | GEND GAYATRI NAVNATH | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_162822.jpg |
| Vacational Training | AFTEK Limited Solapur | GHODAKE SUPRIYA SATISH | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163431.jpg |
| Vacational Training | AFTEK Limited Solapur | GHONGADE SNEHA RAJA | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155132.jpg |
| Vacational Training | Bhart Electrical Sagali | INGALE KOMAL DHANANJAY | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163859.jpg |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | SKADA Technology solution pvt Pune | INGALE SAYALI SUNIL | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163538.jpg |
| Vacational Training | AFTEK Limited Solapur | JADHAV DIKSHA VITTHAL | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154930.jpg |
| Vacational Training | Bharat Sanchar Nigam Limited Satara | JADHAV ROHINI RAMCHANDRA | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_164011.jpg |
| Vacational Training | MAHA VITARAN O & S divisin Pandharpur | JOSHI SAYALI NANDKUMAR | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163420.jpg |
| Vacational Training | AFTEK Limited Solapur | KAMBALE PRAJAKTA NARAYAN | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_162850.jpg |
| Vacational Training | AFTEK Limited Solapur | KAMBLE BHAGWATI KRUSHNA | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155011.jpg |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Bharat Sanchar Nigam Limited Solapur | KANDI NIKHIL MALLIKARJUN | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163037.jpg |
| Vacational Training | AFTEK Limited Solapur | MASAL USHA ARJUN | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154544.jpg |
| Vacational Training | AFTEK Limited Solapur | MORE MAYURI MAHADEO | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163331.jpg |
| Vacational Training | AFTEK Limited Solapur | MORE PRIYANKA ARJUN | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163346.jpg |
| Vacational Training | SKADA Technology solution pvt Pune | NAIKNAWARE PRIYANKA NAVANATH | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163023.jpg |
| Vacational Training | SKADA Technology solution pvt Pune | NAIKWADI HEENA FARUK | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163958.jpg |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | AFTEK Limited Solapur | NAKATE PRIYANKA ASHOK | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155656.jpg |
| Vacational Training | AFTEK Limited Solapur | PANDHRE NILAM NAGNATH | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_164041.jpg |
| Vacational Training | AFTEK Limited Solapur | PANGARE MOHINI MADHUKAR | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154911.jpg |
| Vacational Training | AFTEK Limited Solapur | PATIL NEHA MANIKRAO | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163928.jpg |
| Vacational Training | MSEB Division Mohal | PATIL GAYATRI VISHWASRAO | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163453.jpg |
| Vacational Training | AFTEK Limited Solapur | PATIL KOMAL KAMALAKAR | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163628.jpg |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Solar Electronics Solapur | PATIL NISHIGANDHA AMAR | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154742.jpg |
| Vacational Training | AFTEK Limited Solapur | PATIL POOJA SANJEETRAO | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155612.jpg |
| Vacational Training | MAHA VITARAN O & S divisin Pandharpur | PATKI VAISHNAVI KIRAN | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154839.jpg |
| Vacational Training | Bhima Shankar Sakhar Karkhana, Takali solapur | POTDAR APARNA VIRBHADRA | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154823.jpg |
| Vacational Training | AFTEK Limited Solapur | RAJPUT AMRUTA NARAYANSING | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155052.jpg |
| Vacational Training | AFTEK Limited Solapur | SAWALE BHAGYASHRI CHANDRAKANT | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155642.jpg |
| Vacational Training | AFTEK Limited Solapur | SAWANT KAJOL VITTHAL | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163241.jpg |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | AFTEK Limited Solapur | SHINDE SUNITA PRAKASH | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163313.jpg |
| Vacational Training | AFTEK Limited Solapur | SHINDE URMILA DEEPAK | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_162836.jpg |
| Vacational Training | Doordarshan Relay center Akkalkot | THORAT KIRAN VIJAYKUMAR | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163944.jpg |
| Vacational Training | Bharat Sanchar Nigam Limited Solapur | UPASE SIDHARTH RAVINDRA | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154627.jpg |
| Vacational Training | AFTEK Limited Solapur | WAGHMARE ASHANTA LAXMAN | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155649.jpg |
| Vacational Training | AFTEK Limited Solapur | WAGHMARE DEEKSHA DILIPKUMAR | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_162951.jpg |
| Vacational Training | AFTEK Limited Solapur | WAGHMARE VARSHA ASHOK | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155208.jpg |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | AFTEK Limited Solapur | YELALE PREETI SITARAM | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163405.jpg |
| Vacational Training | AFTEK Limited Solapur | TATE GITA BALIRAM | 2017-18 | 15 Days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163052.jpg |
| Implant Training | Sadguru Construction, Pandharpur | KASHID SAMADHAN Harishchandra | 2017-18 | 15/12/2017 to 31/12/2017 | Implant Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2017 - 18.pdf |
| Implant Training | Das Offshore Engg. Pvt. Ltd., Pandharpur | /JADHAV SARITA NARAYAN | 2017-18 | 16/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | YEDAGE DINESH MADHUKAR | 2017-18 | 15/12/2017 to 31/12/2017 | Implant Training | |
| Implant Training | Hemant Dhumal, Cons. Engineer, Pandharpur | /PADAVALE PRIYANKA VITTHAL | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Das Offshore Engg. Pvt. Ltd., Pandharpur | /JADHAVAR NIKITA RAMESH | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | SAKHARE ABHISHEK UTTAM | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | Sadguru Construction, Pandharpur | NAVAGIRE OMKAR PRAKASH | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | Continued….<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2017 - 18.pdf |
| Implant Training | Sadguru Construction, Pandharpur | TONDASE MILIND VISHNU | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Shreya Construction, Osmanabad | /SURYAWANSHI SMITA R | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | CHAURE KHELA RAJENDRA | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Bal Kumbhar & Associates, Pandharpur | /WAGHAMARE RANI TRIMUKH | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Das Offshore Engg. Pvt. Ltd., Pandharpur | /CHANDANSHIVE KOMAL SHAHAJI | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Madhukar Kamble Consulting Engineer, Sangola | /GODASE YASHASHRI SADHAU | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Bal Kumbhar & Associates, Pandharpur | /KAMBLE AKSHADA AVINASH | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Bal Kumbhar & Associates, Pandharpur | /MADAKE BHAKTI SAMBHAJI | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | A.C.Patil Civil Engg, Pandharpur | MULGIR VIKAS PANDITRAO | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | Sadguru Construction, Pandharpur | SHINDE DEVIDAS TANAJI | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | Continued….<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2017 - 18.pdf |
| Implant Training | Sadguru Construction, Pandharpur | KHUNE VAIBHAV BALASAHEB | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Landmark Associates, Shreepur | /BHOSALE MONIKA MADHUKAR | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Guru Construction, Satara | WARAGADE SWAPNIL DATTATRAY | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Om Sai Developers, Pune | /BARBOLE SAPANA RAMDAS | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Bal Kumbhar & Associates, Pandharpur | /MOHITE ARTI AUDUMBAR | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | PAWAR SURAJ RAJENDRA | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Hemant Dhumal, Cons. Engineer, Pandharpur | /PATIL SWATI DATTATRAY | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | R.S. Associates, Pune | /THITE ANKITA ARJUN | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | KE Infrastructure, Thane | GADE DIPAK SHIVAJI | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | Mega Engineering, Pune | /NAIKWADI ASHWINI BALIRAM | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | Continued…. https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2017 - 18.pdf |
| Implant Training | Sadguru Construction, Pandharpur | VELAPURKAR PRAVIN SHYAM | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | MANE VIKAS POPAT | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | JAGTAP SURAJ KAKASAHEB | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sneus Hydel Pvt. Ltd., Osmanabad | UMBARE ABHAY UMAKANT | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sneus Hydel Pvt. Ltd., Osmanabad | PURI ANIL ARJUN | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Chetan Construction Mangalwedha | GURAV SHYAM SUBHASH | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | BANGOSAVI VINAL RAJENDRA | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | GAVHANE AKSHAY BALKRUSHNA | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | Sanket Ubale | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | A.L. Bhakare, Madha | AJURE SHUBHAM DILIP | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | Continued…. https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2017 - 18.pdf |
| Implant Training | A.L. Bhakare, Madha | CHAVAN ABHIJEET SHANKAR | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | KAKADE VISHAWAJEET VIKAS | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Das Offshore Engg. Pvt. Ltd., Pandharpur | Satpute Runali Gajanan | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | SSVKSSK, Pandharpur | HONMUTE KUNDAN GANPAT | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | B. M. Deshmukh, Govt. Contractor, Pandharpur | /KATKAR NAMRATA | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | PAKHARE VINOD NANDKUMAR | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Das Offshore Engg. Pvt. Ltd., Pandharpur | Mane Shital Kerappa | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Shree Sai Enterprises, Virar | BONDAR SUSHANT MADHUKAR | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Home Consultants, Pandharpur | CHOUDHARI SHUBHAM B | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | Sadguru Construction, Pandharpur | EKATPURE PANKAJ ANIL | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | Continued….<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2017 - 18.pdf |
| Implant Training | Sadguru Construction, Pandharpur | NIRMAL SANDIP BHAUSAHEB | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | LOKHANDE ANIL LAXMAN | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | MORE KIRAN NANA | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | KUMBHAR VISHWANATH MAHADEV | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Bal Kumbhar & Associates, Pandharpur | GHADAGE GANESH SAHEBRAO | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Das Offshore Engg. Pvt. Ltd., Pandharpur | /JAWANJAL YADNYASENI | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | SARGAR SURAJ HANUMANT | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | HIPPARKAR HARIDAS RAMCHANDRA | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Rokade C. P. Satara | MHETRE SHIVAJI SHASHIKANT | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | B. M. Deshmukh, Govt. Contractor, Pandharpur | /KORAKE SWAPNALI KAILAS | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | Continued….<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2017 - 18.pdf |
| Implant Training | KE Infrastructure, Thane | KANADE RUTWIK AMAR | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Graphecone Builders Sangola | JADHAV RAVIKIRAN PANDURANG | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Implant Training | Padmaja Developers, Osmanabad | MANGIRE ADESH SUNIL | 2017-18 | 15/12/2017 to 30/12/2017 | Implant Training | |
| Faculty Industrial Training | Vijay Engineers and Manufacturers, Solapur | Mr. N. S. Shaikh | 2017-18 | 21/05/2018 to 19/06/2018 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/NSS.pdf |
| Faculty Industrial Training | Laxmi Hydraulic Pvt. Ltd. Solapur | Mr. S. S. Kakade | 2017-18 | 22/05/2018 to 19/06/2018 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/SSK.pdf |
| Faculty Industrial Training | Sneha Industries, Pune | Mr. U. L. Anuse | 2017-18 | 22/11/2017 to 22/12/2017 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/ULA.pdf |
| Student Inplant Training | VED Industries Plot no. 128/2/3, Sec-7, Bhosari, Pune. | Chidrawar Ganesh Pandurang | 2017-18 | 30/05/2018 to 30/06/2018 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_CHIDREWAR GP TB 62.pdf |

| Academic Year 2017-18 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Guest Lecture | Superitending Engineer,PWD | Second Year Students | 2017-18 | 29/7/2017 | Guest Lecture | https://naac.sveri.ac.in/Criteria_3/3_5_1/Guest 17-18Civil.pdf |
| Guest Lecture | Secretory, Irrigation Department, Maharashtra. | Second Year Students | 2017-18 | 6/1/2018 | Guest Lecture | |
| Guest Lecture | GIS EXPRT,Pune | Second Year Students | 2017-18 | 5/4/2018 | Guest Lecture | https://drive.google.com/file/d/1FbmaAi9Wj8zFDjKQT0_O4qZ7rlitZHDS/view?usp=sharing |
| Guest Lecture | Walchand College of Engineering Sangli | Third Year Students | 2017-18 | 4/11/2017 | Guest Lecture | |

# Academic Year 2018-19

| Academic Year 2018-19 | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Book Chapter | National Institute of Technology Silchar | Sandeep Sitaram Wangikara, N. D. Misal, Promod Kumar Patowari, Rahul Dev Misra | 2018-19 | Six months | Book Chapter Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/SSW_Book Chapter.pdf |
| Research Paper | Raja Ramanna Centre for Advanced Technology, Indore | Anil B. Shinde, Prashant M. Pawar, Pakija Shaikh, Sandip Wangikar, Sandip Salunkhe, Vishal Dhamgaye | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/ABS.pdf |
| Research Paper | Dr. Babasaheb Ambedkar Technological University, Lonere & Ex BARC Scientist and MGM College of Engineering and Technology, Kamothe | N.D. Misal, M. Sadaiah, V.K. Suri, P.M. Pawar | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2016.pdf |
| Research Paper | National Institute of Technology Silchar | S.S. Wangikar, P.K. Patowari, R.D. Misra | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2016.pdf |
| Research Paper | Keystone School of Engineering, Pune | M. B. Kulkarni, P. M. Ghanegaonar | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume1.pdf |
| Research Paper | G H Raisoni College of Engineering and Management, Pune | S. G. Mitkari, B. P. Ronge, Gajare Pratik | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume1.pdf |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Research Paper | MIT College of Raılway Engineering and Research, Barshi | L. B. Raut, S. V. Jadhav, V. S. Jagadale, Vijay Swami, S. R. Gavali, S. B. Gade | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume1.pdf |
| Research Paper | Department of Mechanical Engineering, Sathyabama University, Chennai | Nilam P. Jadhav, V. K. Bupesh Raja, Shrikrushna B. Bhosale | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |
| Research Paper | Bharati Vidyapeeth University, College of Engineering, Pune | Ranjitsinha R. Gidde, Prashant M. Pawar, Babruvahan P. Ronge, Pradeep V. Jadhav | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |
| Research Paper | Fluidyn Consultancy Pvt. Ltd., Bengaluru, Karnataka | Subhash V. Jadhav, Sachin M. Kale, Dattatray T. Kashid, Sunil S. Kakade, Sachin R. Gavali, Subhash D. Shinde | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |
| Research Paper | Bharati Vidyapeeth University, College of Engineering, Pune | Anil B. Shinde, Prashant M. Pawar, B. P. Ronge, P. K. Bhuse, A. K. Parkhe, Pradeep V. Jadhav | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |
| Research Paper | Rajarambapu Institute of Technology, Islampur, Sangli | Chetan C. Jadhav, Sachin R. Gavali, Pratik J. Pawar | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |
| Research Paper | SKN Sinhgad College of Engineering, Korti, Pandharpur | Sagar Khurd, N. B. Jadhav, A. D. Sapkal, Sandeep S. Wangikar, Yuvraj Mule | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Research Paper | Indian Institute of Technology Bombay, Mumbai | Santosh B. Salunkhe, B. T. Gadade, V. S. Pawar, P. J. Guruprasad | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |
| Research Paper | SKN Sinhgad College of Engineering, Korti, Pandharpur | Sagar Namdev Khurd, U. B. Andh, S. V. Kulkarni, Sandeep S. Wangikar, P. P. Kulkarni | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |
| Research Paper | Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology, Baramati & Bharati Vidyapeeth University, College of Engineering, Pune | Hanumant P. Borate, Pradeep Jadhav, Sachin M. Khomane, Sandeep S. Wangikar, and Uttam L. Anuse | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |
| Research Paper | MAEER's MIT College of Engineering, Pune, | Ashish Prakash Shahane, Digambar T. Kashid, Sandeep S. Wangikar, Sachin Kale, and Subhash V. Jadhav, Surendra Barhatte | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |
| Research Paper | Karmayogi Polytechnic College, Pandharpur | D. M. Inamdar, P. S. Kachare, S. Y. Salunkhe | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Research Paper | RIT. Shivaji University, Islampur | Rajaram M. Shinde, Suresh M. Sawant, L. B. Raut | 2018-19 | Two Days | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/technosocietal-2018_Volume2.pdf |
| Student Industrial Visits | APLS Web Development, Aurangabad | SE A | 2018-19 | one day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_S.Y.B.Tech_SEM_I_19-20.pdf |
| Student Industrial Visits | ISRO, Banglore | SE B | 2018-19 | Two day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/2018-19 ISRO.pdf |
| Student Industrial Visits | E-TechMedia , Pune. | TE B | 2018-19 | one day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_S.Y.B.Tech_SEM_I_19-20.pdf |
| Student Industrial Visits | ISRO, Ruchi Web solution | SE A & TE A | 2018-19 | Three day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/SE and TE A II.pdf |
| Student Industrial Visits | Magica Networking Solutions | TE B | 2018-19 | one day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_SE_SEM-I & II_18-19.pdf |
| Student Industrial Visits | Ideaz Multimedia & Satara IT solutions | TE C | 2018-19 | Two day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/Ideaz Multimedia_Satara IT solutions.pdf |
| One month training | Yalmar Infotech Private Limited, Pune | Mr. A. S. Chavan | 2018-19 | 30 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/ASC.pdf |
| One month training | Dacway, Solapur | Mr. L. H. Jadhav | 2018-19 | 30 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/LHJ.pdf |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| One month training | CodePlateau Technology Solutions LLP | Mr. M. M. Shinde | 2018-19 | 30 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/MMS.pdf |
| One month training | CodePlateau Technology Solutions LLP | Mr. N. S. Mane | 2018-19 | 30 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/NSM.pdf |
| Vocational Training | ADJ Infotech Services Pvt. Ltd. Solapur | Ms. Aishwarya Gaikwad | 2018-19 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2018-19.pdf |
| Vocational Training | | Ms. Rutuja Kachare | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Priyanka Kharade | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shruti Tawashe | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sakshee Tonape | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Manisha Akhade | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sayali Awatade | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Vaishnavi Bhadule | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Snehal Bhusare | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Chaitali Bochare | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shravani Burande | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Vaishnavi Devidas | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Smita Dhengale | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Tejaswini Farkande | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sayali Hajare | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Reshma Irkar | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pratima Jadhav | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Priyanka Gavali | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Vishakha Kambale | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Umeyani Kamliwale | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shruti Kawade | 2018-19 | 15 Days | Vocational Training | |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | Continued… | Ms. Kiran Kedar | 2018-19 | 15 Days | Vocational Training | Continued… |
| Vocational Training | | Ms. Snehal Khatal | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | ADJ Infotech Services Pvt. Ltd. Solapur | Ms. Yogita Masal | 2018-19 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2018-19.pdf |
| Vocational Training | | Ms. Simran Mulani | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Akanksha Patil | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Soyrabai Patil | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pornima Rajurkar | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Asawari Shinde | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Vrushali Swami | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Richa Tamhane | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sakshee Tonape | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Afroj Sayyad | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Dhanashri Ambure | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sayali Magar | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Kajal Mane | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Swarit Bhandari | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Kanifnath Dake | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Sattyajit Kale | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Puneet Sawhaney | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Swapnil Vasekar | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Ashutosh Jawanjal | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Aditya Dhaygude | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Vinayak Waghmode | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shraddha Danave | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pravina Yadav | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Aboli Gaikwad | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Anuja Bhange | 2018-19 | 15 Days | Vocational Training | |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | Continued… | Ms. Mrunal Fakade | 2018-19 | 15 Days | Vocational Training | Continued… |
| Vocational Training | | Ms. Kajal Jadhav | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | ADJ Infotech Services Pvt. Ltd. Solapur | Ms. Taslim Khatib | 2018-19 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2018-19.pdf |
| Vocational Training | | Ms. Shruti Kawade | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Nikita Patil | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Chaitrali Shiral | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Nana Chavan | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Mahesh Phutane | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | Soft Tech Pvt. Ltd. Ashta | Ms. Sneha Pandit | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | ADJ Infotech Services Pvt. Ltd. Solapur | Ms. Swapnali Patil | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Amol Salunkhe | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Raviraj Sawant | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Pravin Shedbale | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Ypgita Athawale | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sumaiyya Maneri | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Revati Adlinge | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | Technowing sInternational IT Solutions, Pune | Ms. Prajkta Asabe | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Aishwarya Metkari | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | ADJ Infotech Services Pvt. Ltd. Solapur | Ms. Vaishnavi Bhogaonkar | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Ankita Bhoite | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sujata Birajdar | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Priyanka Gavali | 2018-19 | 15 Days | Vocational Training | |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vocational Training | Continued… | Ms. Prachi Gurav | 2018-19 | 15 Days | Vocational Training | Continued… |
| Vocational Training | | Ms. Komal kadlaskar | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | ADJ Infotech Services Pvt. Ltd. Solapur | Ms. Dipali Ligade | 2018-19 | 15 Days | Vocational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/vt with summary 2018-19.pdf |
| Vocational Training | | Ms. Sakshi Mandwale | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Kavita Pardeshi | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pooja Sarwade | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pranoti Sarvagod | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Kranti Siddhaganesh | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Shivani Shende | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Pratiksha Chandanshive | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sakshi Dindore | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Ms. Sneha Yernale | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Sushant Kumbhar | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Sumeet Mulage | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Hritwik Namade | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Sandesh Narkar | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Pruthviraj Patil | 2018-19 | 15 Days | Vocational Training | |
| Vocational Training | | Mr. Arbaj Shaikh | 2018-19 | 15 Days | Vocational Training | |
| Research Paper | JSPM's Imperial College of Engineering & Research, Wagholi, Pune | A.A. Sangave, S.J. Mohite, H.R. Pawar, V.V. Kulkarni, C.R. Abhangrao | 2018-19 | One Day | International Journal of Engineering and Advanced Technology (IJEAT) , Volume-8, Issue-6, pp. 4629-4632 | https://naac.sveri.ac.in/Criteria_3/3_5_1/6. .pdf |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Research Paper | Holistic Approach for Biogas Technology Implementation to Improve Sustainability. | Kshirsagar, Vidyarani S., Prashant M. Pawar and Sayaji T. Mehetre | 2018-19 | One Day | Current Science. Vol.116 (2). | https://www.semanticscholar.org/paper/Holistic-Approach-for-Biogas-Technology-to-Improve-Kshirsagar-Pawar/268740b260ad3fc77234cf016aae0b155f7d0dcb |
| Students Internship training | Summer Internship training on Refrigeration and Air Conditioning | Students - 3 | 2018-19 | 15/06/2019 To 29/06/2019 | Internship | https://naac.sveri.ac.in/Criteria_3/3_5_1/2018-19 Internship final report-merged.pdf |
| Students Internship training | Summer Internship training on Aero Designing and Manufacturing | Students - 7 | 2018-19 | 15/06/2019 To 29/06/2019 | Internship | |
| Student Industrial Visit | Top Gear Transmission, Satara | SE Students - 140 Faculty - 09 | 2018-19 | 04/04/2019 to 05/04/2019 | SE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_TE_SEM- I & II_18-19.pdf<br><br>https://drive.google.com/file/d/11fBNharHUxdGiiTmqRTke16kWXt5iO7p/view?usp=sharing |
| Student Industrial Visit | Aviraj Industries, Kolhapur, P.R. Engineering, DCPL, Mahalakshmi Aluminium Kolhapur, ROCKET, Engg. Kolhapur, Saroj Ploymers, Kolhapur | TE Students - 142 | 2018-19 | 02/04/2019 & 03/04/2019 | TE Industrial Visit | |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Industrial Visit | Tejas Agro Irregation System, Pvt. Ltd. Bandishegaon, Pandharpur | BE Students - 160 Faculty - 06 | 2018-19 | 15/04/2019 | BE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_BE_SEM I & II_18-19.pdf |
| Faculty Industrial Training | 1. Scutes India Pvt. Ltd., Pune 2. PROTECHStamping Pvt. Ltd. Chikhali (Pune) 3. Jayashree Polymers Pvt. Ltd. Chinchwad (Pune) | 1. Mr. S. M. Khomane 2. Mr. M. B. Kulkarni 3. P. K. Patil | 2018-19 | 16/11/2018 to 15/12/2018 03/05/2019 to 02/06/2019 23/11/2018 to 22/12/2018 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/SMKh_MBK_PKB.pdf |
| Student Inplant Training | Gurukrupa Engineering works, Navi Mumbai. | /Bhumkar Manasi Dinesh | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT BHUMKAR MD TA01_1.jpg |
| Student Inplant Training | Nilkanteshwar Engg. Work Yashwant Residency Ichalkaranji | /Chavan SonaliUmesh | 2018-19 | 28/05/2019 to 28/6/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_CHAVAN SU TA02.jpeg |
| Student Inplant Training | Gurukrupa Engineering works, Navi Mumbai. | /Ghogale Mansi Sanjay | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT GHOGALE MS TA03_1.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | Kakade Agro Industry pvt. Ltd. Tandulwadi | /Attar MuskanMukthar | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_ATTAR MM TA 04.pdf |
| Student Inplant Training | Nilkanteshwar Engg. Work Yashwant Residency Ichalkaranji | /MhetreShubhada Shantanu | 2018-19 | 28/05/2019 to 28/6/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_MHETRE SS TA05.jpeg |
| Student Inplant Training | Chavan Autowheel PVT.ltdsolapurAkkalkot road Solapur | /Gavali Anjali Pandurang | 2018-19 | 22/05/2019 to 21/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_GAVALI AP TA06.jpeg |
| Student Inplant Training | ASB Alloys MIDC Tembhurni | /Gore Gauri Ramchandra | 2018-19 | 23/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_GORE GR TA07.jpeg |
| Student Inplant Training | ASB Alloys MIDC Tembhurni | /KothawaleShivani Sanjay | 2018-19 | 23/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KOTHAWALE SS TA08.jpeg |
| Student Inplant Training | Kakade Agro Industry pvt. Ltd. Tandulwadi | /NikatePornima Milind | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_NIKATE PM TA 09.pdf |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | TOP Gear Transmission PVT.LTD satara | Atre ShrirangRajendra | 2018-19 | 25/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_ATRE SR TA10.jpg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Autade DashrathMadhukar | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_AUTADE DM TA11.jpeg |
| Student Inplant Training | Hind Mechanical and welding work solapur | BagwanMudaser Mahebob | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_BAGWAN MM TA 12_1.jpg |
| Student Inplant Training | Jadhav Industry Kolhapur | Bhise Akash Namdev | 2018-19 | 23/05/2019 to 22/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_BHISE AN TA14.jpeg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Chavan SurajBaban | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_CHAVAN SB TA15.jpeg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Dandwate Rushikesh Prasad | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_DANDWATE RP TA16.jpeg |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | Green Tech. solution pvt.ltd. Wakhari | Deshmane Rushikesh Sanjay | 2018-19 | 1/6/2019 to 21/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT DESHMANE RS TA17_1.jpg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Devkate Sachin Kisan | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_DEVKATE SK TA18.jpeg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Devkate Yogeshwar Arvind | 2018-19 | 24/05/2019 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_DEVKATE YA TA 19.jpg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Dhumal VikasVitthal | 2018-19 | 25/05/2019 to 22/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT DHUMAL VV TA20_1.jpg |
| Student Inplant Training | Vitthalremouldingpandharpur | Gahirwar Pawansing Kiransing | 2018-19 | 24/05/2019 to 23/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_Gahirwar PK TA-21.jpeg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Gaikwad SurajTanaji | 2018-19 | 25/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_GAIKWAD ST TA22.jpeg |
| Student Inplant Training | Green Tech. solution pvt.ltd. Wakhari | Gaikwad Swapnil Rajendra | 2018-19 | 25/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_GAIKWAD SR TA 23.jpeg |
| Student Inplant Training | Green Tech. solution pvt.ltd. Wakhari | Gandule Rohan Rajaram | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_GANDULE RR TA 24.jpeg |
| Student Inplant Training | ASB Alloys MIDC Tembhurni | Ganjale Ashish Namdev | 2018-19 | 23/05/2019 to 22/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_GANJALE AN TA25.jpeg |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | TATA survicescentrePandharur | Ghadage Vaibhav Prabhakar | 2018-19 | 24/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_GHADAGE VP TA 27_1.jpg |
| Student Inplant Training | Vitthalremouldingpandharpur | Ghadge Onkar Dhananjay | 2018-19 | 24/05/2019 to 23/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_Ghadage OD TA-28.jpeg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Gore Omkar Rajkumar | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_GORE OR TA29.jpeg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Gosavi Dada Prakash | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_Gosavi DP TA-30.jpeg |
| Student Inplant Training | Green Tech. solution pvt.ltd. Wakhari | Gund Omkar Shahaji | 2018-19 | 1/6/2019 to 21/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT Omkar Gund TA 31.jpg |
| Student Inplant Training | Kisan Agro Tech Pandharpur | Jadhav Ajinkya Arjun | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_JADHAV AA TA33.jpeg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Jadhav Rushikesh Kalyan | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT JADHAV RK TA34.jpeg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Mangrule Vedant D. | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT MANGRULE VD TA35_1.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | TOP Gear Transmission PVT.LTD satara | Jundale Rahul Rajkumar | 2018-19 | 25/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_JUNDALE RR TA36.jpeg |
| Student Inplant Training | ASB Alloys MIDC Tembhurni | Kadam Shubham Jaimilind | 2018-19 | 23/05/2019 to 22/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KADAM SJ TA 37.jpg |
| Student Inplant Training | Green Tech. solution pvt.ltd. Wakhari | Kakade ShubhamMadhukar | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KAKADE SM TA38.jpeg |
| Student Inplant Training | Famous Automobile works shivaji work solapur | Kale Rohan Suresh | 2018-19 | 26/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KALE_RS TA-39.jpeg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Kale Shubham Malashidha | 2018-19 | 25/05/2019 to 27/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KALE SM TA40.jpeg |
| Student Inplant Training | TOP Gear Transmission PVT.LTD satara | Kambire Pankaj Popat | 2018-19 | 25/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KAMBIRE PP TA42.jpeg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Khadake Prajwal Sunil | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KHADAKE PS TA43.jpeg |
| Student Inplant Training | Green Tech. solution pvt.ltd. Wakhari | Khapale Siddheshwar g. | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KHAPALE SG TA44.jpeg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Khyade Amit Rajendra | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT KHYADE AR TA45_1.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Kodag Vasudev Dattatray | 2018-19 | 27/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT KODAG VD TA 46_1.jpg |
| Student Inplant Training | Green Tech. solution pvt.ltd. Wakhari Pandharpur | Koli Charandas Appaso | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KOLI CA TA47.jpeg |
| Student Inplant Training | TOP Gear Transmission PVT.LTD Satara | Kulkarni Chaitanya Laxmikant | 2018-19 | 25/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KULKARNI CL TA 48.jpg |
| Student Inplant Training | Jadhav Industry Kolhapur | Mane Mahesh Gunvant | 2018-19 | 23/05/2019 to 22/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT MANE MG TA 49_1(2).jpg |
| Student Inplant Training | TOP Gear Transmission PVT.LTD satara | Nagras Pranil Prakash | 2018-19 | 25/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_NAGRAS PP TA50.jpeg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Pandit Yogesh Dhananjay | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_PANDIT YD TA51.jpeg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Pangudwale Purvesh Prakash | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_PANGUDWALE PP TA52.jpeg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Pawar Aniket Santosh | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_PAWAR AS TA55.jpeg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Pawar Dayanand Yogesh | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_PAWAR DY TA 56.jpg |
| Student Inplant Training | Sandwik Asia at Pimpari Chinchwad Pune. | Pawar Pruthviraj Deepak | 2018-19 | 3/6/2019 to 2/7/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_PAWAR PD TA 57.jpg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Rode Vaibhav Balasaheb | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_RODE VB TA58.jpeg |
| Student Inplant Training | Jadhav Industry Kolhapur | Sathe Pradip Shivaji | 2018-19 | 23/05/2019 to 22/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SATHE PS TA60.jpeg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Sayyad Azam Akram | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT-SAYYED AA TA61.jpeg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Shaikh Juned Ramjan | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SHAIKAH JR TA 62.pdf |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Sheikh Vijas Jaylani | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SHAIKH VJ TA63.jpeg |
| Student Inplant Training | Leena Engg. Works Asara chowk solapur | Shejal Samadhan Nagnath | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SHEJAL SN TA 64.jpeg |
| Student Inplant Training | Aditi power equipments LTD. Chakan MIDC Pune | Shinde Rajkumar Nana | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT SHINDE RN TA 65_1.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | Ashwini Engineering Pimparichinchwad, Pune | Shinde Saurabh Mahadev | 2018-19 | 26/05/2019 to 24/05/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SHINDE SM TA66.png |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Sirsat Anna Yuvraj | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SIRSAT AY TA67.jpeg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Sonar Sunil Ravindra | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SONAR SR TA68.jpeg |
| Student Inplant Training | Lakshmi Droken components MIDC Hinjawadi Pune | Tadmare Swapnil Sanjaykumar | 2018-19 | 26/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT TADMARE SS TA 69_1.jpg |
| Student Inplant Training | NORD Drive system PVT.LTD .Pune | Vibhute Rushikesh Nandkumar | 2018-19 | 27/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT VIBHUTE RN TA70_1.jpg |
| Student Inplant Training | LHP Chincholi MIDC Solapur | Wasnik Harshal Prakash | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_WASNIK HP TA71.jpeg |
| Student Inplant Training | Trimurti stainlinkPVT.ltd. | Ghuge Hrushikesh Ravindra | 2018-19 | 14/06/2019 to 13/07/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT Ghuge Hrushikesh TA 72.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | Satish steel Industry Kurdwadi | Gavali Shubham Amol | 2018-19 | 29/05/2019 to 27/6/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_GAVALI SA TA_73.jpg |
| Student Inplant Training | Kalyani forge Mundhawa Pune | Sathe Shubham Bhalchandra | 2018-19 | 28/06/2018 to 28/07/2018 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SATHE SB TA 76.jpeg |
| Student Inplant Training | Precision camshaft chincholi MIDC solapur | /Ashture Chandraprabha Balaji | 2018-19 | 3/6/2019 to 17/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_ASHTURE CB TB 01.jpg |
| Student Inplant Training | YASH CNC pune | /Bhosale Pranoti Ramchandra | 2018-19 | 27/06/2019 to 27/07/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_BHOSALE PR TB 02.jpg |
| Student Inplant Training | PCL chincholi MIDC solapur | /Deomare Nikita Narayan | 2018-19 | 3/6/2019 to 17/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT DEOMARE NN TB03_1.jpg |
| Student Inplant Training | Chavan Autowheel PVT.LTD Akkalkot Road solapur | /Nistane Shweta Shadashiv | 2018-19 | 22/05/2019 to 21/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT NISTANE SS TB05_1.jpg |
| Student Inplant Training | DENASA buildcon Pune | Adalinge Rohit Chandrakant | 2018-19 | 25/05/2019 to 20/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_ADLINGE RC TB 08.jpg |
| Student Inplant Training | Leena industry solapur | Chavan Dinesh Uttam | 2018-19 | 24/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_CHAVAN DU TB 10.pdf |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | ABS Alloy Tembhurni | Dandage Vaibhav Nagnath | 2018-19 | 23/05/2019 to 23/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_DANDGAE VN TB11.jpeg |
| Student Inplant Training | Akshay casting shiroli MIDC kolhapur | Jadhav Vaibhav Satish | 2018-19 | 1/6/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_JADHAV VS TB17.jpeg |
| Student Inplant Training | Advance extrusion PVT.LTD barshi | Kshirsagar Abhishek Prakash | 2018-19 | 24/05/2019 to 23/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KSHIRSAGAR AP TB20.jpg |
| Student Inplant Training | Active chromewellexhust Sahaswadi; | Kumbhar Pratikesh Pramod | 2018-19 | 29/05/2019 to 27/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_KUMBHAR PP TB 22.pdf |
| Student Inplant Training | TOP Gear Satara | Lad Varad Anil | 2018-19 | 28/05/2019 to 27/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_LAD VA TB 23.jpg |
| Student Inplant Training | VSB steel Pune | Magi Prasad Dattatray | 2018-19 | 1/6/2019 to 30/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT MAGI PD TB26_1.jpg |
| Student Inplant Training | AWATE PVT.LTD. Pune; | Mandwale Pratiksinh S. | 2018-19 | 10/6/2019 to 28/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_Mandwale PS_TB-27.jpeg |
| Student Inplant Training | Skywin IndustryBhosari, MIDC Pune. | Jadhav Ruturaj S. | 2018-19 | 1/6/2019 to 28/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_JADHAV RS TB.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | Royal Industry Velapur; Dist;solapur | Masal Samadhan Dadaso | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_MASAL SD TB29.jpeg |
| Student Inplant Training | Akruti Industry Shirgoan , MIDC Kolhapur; | Mulani Aftab Iqbal | 2018-19 | 28/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_MULANI AI TB30.jpeg |
| Student Inplant Training | LHP PVT.LTD. Solapur. | Mulani Shahid Mahammad | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_MULANI SM TB31.jpeg |
| Student Inplant Training | Jadhav Foundary Kolhapur. | MulaniVasim Jahangir | 2018-19 | 23/05/2019 to 22/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_MULANI VJ TB32.jpeg |
| Student Inplant Training | Green Tech. Agro solution Wakhari; Pandharpur | Nagane Amol Mahadeo | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_NAGANE AM TB09.jpeg |
| Student Inplant Training | Global Enterprises Pune. | Nimgire Piyush Dadasaheb | 2018-19 | 27/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_NIMGIRE PD TB36.jpeg |
| Student Inplant Training | Royal Industry Velapur; Dist;solapur | Pandhare Rohan Anil | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_PANDHARE RA TB 37.jpg |
| Student Inplant Training | Hind Mechanical and Welding work solapur. | Parkam Pavan Shashikant | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_PARKAM PS TB38.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | Akshay casting shiroli MIDC kolhapur | Pavase Mayur Santosh | 2018-19 | 1/6/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_PAVSE MS TB40.jpeg |
| Student Inplant Training | LHP PVT.LTD. Solapur. | Pophale Pratap Ashok | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_POPHALE PA TB41.jpeg |
| Student Inplant Training | LHP PVT.LTD. Solapur. | Raut Shubham Anil | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_RAUT SA TB42.jpeg |
| Student Inplant Training | LHP PVT.LTD. Solapur. | Raut Yogesh Dattatray | 2018-19 | 24/05/2019 to 24/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT RAUT YD TB 43_1.jpg |
| Student Inplant Training | DENASA buildcon Pune | Salgar Ram Balaso | 2018-19 | 25/05/2019 to 20/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SALAGER RB TB45.jpeg |
| Student Inplant Training | Akshay Metal MIDC Usmanabad | Sansare Sanket Manojkumar | 2018-19 | 5/5/2019 to 28/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SANSARE SM TB 47.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | Advance extrusion PVT.LTD barshi | Shaikh Nihal Naushad | 2018-19 | 24/05/2019 to 23/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT SHAIKH NN TB50_1.jpg |
| Student Inplant Training | Green Tech. Agro solution Wakhari; Pandharpur | Shinde Abhishek Amar | 2018-19 | 1/6/2019 to 21/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SHINDE AA TB53.jpg |
| Student Inplant Training | DENASA buildcon Pune | Shinde Mahesh Vilas | 2018-19 | 25/05/2019 to 20/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_SHINDE MV TB 54.jpg |
| Student Inplant Training | Chavan workshop pvt.ltd. | Shrigadi Swamisamarth V. | 2018-19 | 25/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT SHRIGADI S V TB56.pdf |
| Student Inplant Training | Leena industry solapur | Takale Akshay Angad | 2018-19 | 1/6/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT TAKALE AA TB12_1.jpg |
| Student Inplant Training | DENASA buildcon Pune | Tamboli Arbaj Jabbar | 2018-19 | 25/05/2019 to 20/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_TAMBOLI AJ TB 58.jpg |
| Student Inplant Training | Green Tech. Agro solution Wakhari; Pandharpur | Tate Rutvik Bramhadev | 2018-19 | 1/6/2019 to 21/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_TATE RB TB59.jpg |
| Student Inplant Training | Leena industry solapur | Thakare Bhushankumar D. | 2018-19 | 27/05/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_THAKARE BD TB51.jpeg |
| Student Inplant Training | Green Tech. Agro solution Wakhari; Pandharpur | Thite Prem Ganesh | 2018-19 | 1/6/2019 to 21/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_THITE PG TB34.jpeg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Inplant Training | Famous Mechanical Works Solapur | Valsange Akash Somanath | 2018-19 | 27/05/2019 to 26/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_VALSANGE AS TB19.jpeg |
| Student Inplant Training | Akshay casting shiroli MIDC kolhapur | Vhankalas Avinash Bhaskar | 2018-19 | 1/6/2019 to 25/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_VHANKALAS AB TB14.jpeg |
| Student Inplant Training | DENASA buildcon Pune. | Waghmare Dipak Subhash | 2018-19 | 25/05/2019 to 20/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_WAGHMARE DS TB55.jpeg |
| Student Inplant Training | PCL chincholi MIDC, Solapur | Waghmode Pradyumna Dinesh | 2018-19 | 3/6/2019 to 17/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VIT_WAGHMODE PD TB 67.jpg |
| Sponsored Project | Accrete Electromech, Aurangabad | Jokare Mayur Manik | 2018-19 | 1 Year | Sponsored Project | https://naac.sveri.ac.in/Criteria_3/3_5_1/Sponsored Project summary_2018-19.pdf |
| Sponsored Project | | Surwase Balaji Zumbar | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Sayyad Faruk Husen | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Pawar Rajendra Darasing | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | Vijay Gears, Aurangabad | Mali Shriram N. | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Tupe Shashikant T. | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Pranav Jaware | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Shaikh Touhid | 2018-19 | 1 Year | Sponsored Project | |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Sponsored Project | Shri Samarth Industries, Aurangabad | Dubewar Ganesh Vinodrao | 2018-19 | 1 Year | Sponsored Project | Continued..<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Sponsored Project summary_2018-19.pdf |
| Sponsored Project | | Koli Akash Gopal | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Kale Dipak Popat | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Patil Ram | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Gavade Vishal Rama | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | JIJAI Industries, Aurangabad | Bhosale Vishal Shahaji | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Bhosale Vivek Manik | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Maradkar Sudahrshan | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Akshaykumar kore | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | AVIRAJ Industries, Kolhapur | Kshirsagar Vinod Shantinath | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Mhetre Ashutosh Shantanu | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Patil Rahul Arun | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Bhosale Pratap Dnyaneshwar | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | SPARTAN Technologies Pvt. Ltd. Machnur | Chaugule Balasaheb Dilip | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Shendge Krishna V. | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | More Rajesh D. | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Bhakte Umesh B. | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Bhosale Sachin A. | 2018-19 | 1 Year | Sponsored Project | |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Sponsored Project | Tambe HP Gas Agency | /Bhusare Madhuri Laxman | 2018-19 | 1 Year | Sponsored Project | Continued.. https://naac.sveri.ac.in/Criteria_3/3_5_1/Sponsored Project summary_2018-19.pdf |
| Sponsored Project | | /Ghodake Vaishnavi Chandrakant | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | /Ramteke Sachi Kishor | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | /Fand Rajnandini Namdev | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | Coretech Aurangabad Pvt.Ltd. Aurangabad | Dhumal Vishal Maruti | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Kanade Shivam Ramling | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Bandagar Samadhan Uttam | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Ghule Kiran Shrimant | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | Vijay Gears, Aurangabad | Kadam Nitin Kisan | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Potdar Ashutosh Mahadev | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Kolekar Vishal Mahadev | 2018-19 | 1 Year | Sponsored Project | |
| Sponsored Project | | Pise Jagdish Milind | 2018-19 | 1 Year | Sponsored Project | |
| Vacational Training | Apron Tech Satara | HINDULE RAVIKANT SHASHIKANT | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163117.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | New Soft Solution Solapur | BHOSALE RUCHITA VILAS | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101741.jpg |
| Vacational Training | Kanaad service Sagali | MYAKAL SAMITA BALAJI | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102058.jpg |
| Vacational Training | Solar electronics solapur | CHAVARE SHUBHANGI SAMBHAJI | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101715.jpg |
| Vacational Training | Solar electronics solapur | BHOSALE AISHWARYA GOPAL | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154655.jpg |
| Vacational Training | AFTEK Limited Solapur | BHUSE AJINKYA CHANDRAKANT | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102648.jpg |
| Vacational Training | Megha- Kit | JAGTAP ANIKETA ASHOK | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155339.jpg |
| Vacational Training | Apron Tech Satara | TAMBOLI ANISA KADAR | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101939.jpg |
| Vacational Training | Apron Tech Satara | JADHAV PRANITA SUNIL | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102203.jpg |
| Vacational Training | Kanaad service Sagali | KATKAR ANJALI PANDURANG | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155738.jpg |
| Vacational Training | Solar electronics solapur | YADAV ANUJA DNYANESHWAR | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101953.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Unitech Autoswitch Pune | SHINGADE VARSHA BALVANT | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102226.jpg |
| Vacational Training | Solar electronics solapur | BABA BHAGYASHRI SHIVSHANKAR | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163103.jpg |
| Vacational Training | Solar electronics solapur | YADAV CHHAYA APPA | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102538.jpg |
| Vacational Training | Kanaad service Sagali | PATIL DHANSHREE SANJAY | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154433.jpg |
| Vacational Training | L&T Automation Ahemadnagar | MARADKAR DNYANESHWARI S. | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155315.jpg |
| Vacational Training | Solar electronics solapur | GORE JANABAI BALASAHEB | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_162806.jpg |
| Vacational Training | Solar electronics solapur | KARANDE JAYASHRI DATTATRAYA | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_163229.jpg |
| Vacational Training | Solar electronics solapur | KOLI JYOTI NAGNATH | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154513.jpg |
| Vacational Training | Solar electronics solapur | WAGH KANCHAN SUDHAKAR | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102504.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** | **Title of the collaborative activity** |
| Vacational Training | Solar electronics solapur | BHOSALE KAVITA GANPAT | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102041.jpg |
| Vacational Training | Solar electronics solapur | GUMASTE KETAKI SUNIL | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101653.jpg |
| Vacational Training | Kanaad service Sagali | MORE KIRTI ASHOK | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102007.jpg |
| Vacational Training | Sharda Electronics Sagali | TATE DESHMUKH KRISHNA RAJENDRA | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154708.jpg |
| Vacational Training | Bharat Sanchar Nigam Limited Solapur | HINDULE MADHAVI SHASHIKANT | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154458.jpg |
| Vacational Training | Apron Tech Satara | KAMBLE MAHESH BIBHISHAN | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155456.jpg |
| Vacational Training | Digitech electronics Latur | SHAHANE MANASI MAHESH | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102523.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Solar electronics solapur | BAGAL MOHINI TANAJI | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101639.jpg |
| Vacational Training | Prem traines service | MANE PRACHI AVADHUT | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101756.jpg |
| Vacational Training | Solar electronics solapur | NAVGIRE PRAGATI PURUSHOTTAM | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102405.jpg |
| Vacational Training | Apron Tech Satara | WAKADE PRAJAKTA KASHINATH | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_162744.jpg |
| Vacational Training | Dvivya Electronics Solapur | YELASANGE ANJALI MAHADEV | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_103512.jpg |
| Vacational Training | Dvivya Electronics Solapur | DARGUDE PRATIKSHA NAGNATH | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101853.jpg |
| Vacational Training | Solar electronics solapur | ASABE PRATIMA NAVNATH | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_164543.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Solar electronics solapur | NAGANE PRIYANKA VITTHAL | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155539.jpg |
| Vacational Training | Solar electronics solapur | KATKAR PUJA APPASAHEB | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155551.jpg |
| Vacational Training | Laximi Solar pvt kolhapur | KAMBLE RESHMA HANUMANT | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102424.jpg |
| Vacational Training | Apron Tech Satara | TARANGE RESHMA SHAM | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154419.jpg |
| Vacational Training | Digitech electronics Latur | DHOTRE ROHINI SHAHAJI | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102441.jpg |
| Vacational Training | Kanaad service Sagali | RANAWARE ROHIT SUHAS | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154719.jpg |
| Vacational Training | Data Council Pune | DUBAL SAMIKSHA NANASAHEB | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_103923.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Laximi Solar pvt kolhapur | KOLI SAYALI SHAMRAO | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_103025.jpg |
| Vacational Training | Laximi Solar pvt kolhapur | SHINDE PRIYANKA SUBHASH | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102126.jpg |
| Vacational Training | Laximi Solar pvt kolhapur | KOLI VRUSHALI RAJENDRA | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102111.jpg |
| Vacational Training | Laximi Solar pvt kolhapur | SONAWANE SHARAD MAGAN | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101622.jpg |
| Vacational Training | Apron Tech Satara | VHANMANE SONALI KANHAIYALAL | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155437.jpg |
| Vacational Training | Data Council Pune | ROKADE SONIYA SANJAY | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155634.jpg |
| Vacational Training | Apron Tech Satara | PARBAT SUPRIYA SAYAJI | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155423.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Mind Matrix Pune | RONGE SWAPNAJA YUVRAJ | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101916.jpg |
| Vacational Training | Apron Tech Satara | MORE TANUJA ASHOK | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_162936.jpg |
| Vacational Training | Solar electronics solapur | SURVASE TEJASWINI VISHNU | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_154757.jpg |
| Vacational Training | Solar electronics solapur | SANJEKAR PRATIKSHA VIJAY | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102324.jpg |
| Vacational Training | Solar electronics solapur | PATIL SAYALI SURYAKANT | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_101813.jpg |
| Vacational Training | Megha Kit Pune | WAGHMODE YAMINI VILAS | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200903_102216.jpg |
| Vacational Training | Data Council Pune | MASKE YOGITA SURESH | 2018-19 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/IMG_20200902_155726.jpg |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Faculty Industrial Training | SVERI's COE, Pandharpur and Das Offshore Engg. PVT. LTD., Mumbai | Rahul Devidas Kapase | 2018-19 | 13/11/2018 to 12/12/2018 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/Training Certificate Kapse.pdf |
| Faculty Industrial Training | SVERI's COE, Pandharpur and Sunil Nimbalkar and Associates (7020717026) | Avnish Babaso Kokare | 2018-19 | 11/05/2019 to 10/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/kokare.jpg |
| Implant Training | Sadguru Construction, Pandharpur | PUJARI PRAKASH RAJKUMAR | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2018 - 19.pdf |
| Implant Training | Sohel Construction, Madha | THENGAL ABHIJIT DATTATRAYA | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Shree Venkatesh Enterprises, Pandharpur | /KUMBHAR ANJALI GANPAT | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Sharda Construction and Corporation Pvt. Ltd., Nanded | /DONGARE SHUBHANGI KANHOBARAO | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | N. B. Kolekar, Contractor, Pandharpur | /VIBHUTE JYOTI ASHOK | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Credible Developers, Maharashtra | BHARTI SHRINIVAS VISHNU | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | NP Constructions, pandharpur | SHINDE GANESH MADAN | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | Continued..<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2018 - 19.pdf |
| Implant Training | Shree Venkatesh Enterprises, Pandharpur | /SARVAGOD PRACHI JITENDRA | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Shree Venkatesh Enterprises, Pandharpur | /KAMBLE ASHWINI ARVIND | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | SN Konapure Contractor, Mangalvedha | /PATIL RUTUJA NAGESH | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | SN Konapure Contractor, Mangalvedha | /DHUMAL HARSHADA PANDURANG | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | SN Konapure Contractor, Mangalvedha | /CHIKMANE ANKITA ANIL | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | S.M. Autade Pvt. Ltd, Mangalwedha | MALI PRATHAMESH KRISHANA | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Sarthak Construction, Pandharpur | /SHIKHARE SADHANA NAGNATH | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | A.G. Shevale, Pandharpur | HONMANE SAGAR SIDDHESHWAR | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | Synergy Project Consultant Pvt. Ltd., Pandharpur | /PAREKAR MRUNALI BIRUDEV | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | Continued..<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2018 - 19.pdf |
| Implant Training | Kokan Builders and Contractors, Ratnagiri | /MASAL AISHWARYA NILKHANT | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Gurukrupa Builders, Karamala | PUJARI HANAMANT SHRISHAIL | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Kantilal Dubal Contractor, Pandharpur | /DESHMUKH SNEHA SHIVAJIRAO | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | A.G. Shevale, Pandharpur | ATKALE AKASH SHASHIKANT | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Credible Developers, Maharashtra | SAWANT SHAILESH SHASHIKANT | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Kantilal Dubal Contractor, Pandharpur | /DESHMUKH SUSHAMA MAHADEV | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Kantilal Dubal Contractor, Pandharpur | /TEKE MADHURI KISHOR | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Gurukrupa Builders, Karamala | BABAR GANESH SHANKAR | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | Synergy Project Consultant Pvt. Ltd., Pandharpur | /WAGHMODE PRAJAKTA SOPAN | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | Continued..<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2018 - 19.pdf |
| Implant Training | A.G. Shevale, Pandharpur | PAWAR SAURABH BABAN | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Kantilal Dubal Contractor, Pandharpur | /PUJARI PRIYANKA TUKARAM | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | R. D.. Kolekar, Contractor, Pandharpur | KALE VAIBHAV VASANT | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Synergy Project Consultant Pvt. Ltd., Pandharpur | /ZENDE PRIYA BRAMHADEO | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Kanishka Infrastructure, Solapur | /POLAS POOJA PRUSHOTTAM | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Sonai Infra Pvt. Ltd., Sangli | SHAIKH SHOAIB SALIM | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | PAWAR SWAPNIL JITENDRA | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | S.M. Autade Pvt. Ltd, Mangalwedha | GAIKWAD KAPIL VIJAY | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Sonai Infra Pvt. Ltd., Sangli | SOUDAGAR PRASAD SHIVAJI | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | Dive, Govt. Contractor, Kurduwadi | Gore Krishna Devidas | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | Continued..<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2018 - 19.pdf |
| Implant Training | Bhosale and Sangaokar Associates, Kolhapur | GAIKWAD PRASHANT MANIK | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Gurukrupa Builders, Karamala | KANGUDE YOGESH BALKRISHNA | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Gurukrupa Builders, Karamala | SAWANT GAURAV VITTHAL | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Gurukrupa Builders, Karamala | KADAM VIRAJ MARUTI | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Synergy Project Consultant Pvt. Ltd., Pandharpur | /BHOSALE KAJAL BHARAT | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | S.M. Autade Pvt. Ltd, Mangalwedha | GAWADE AJAY SANTOSH | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | /THORAT AISHWARYA A. | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | G.D. Sadigale Contractor, Pandharpur | /SHINDE PRIYADARSHANI RAVINDRA | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Sadguru Construction, Pandharpur | Sarvade Akash Pandurang | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |

| Academic Year 2018-19 (Continued..) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Implant Training | Sadguru Construction, Pandharpur | BANDGAR SHUBHAM SHIVAJI | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | Continued..<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Internship Training 2018 - 19.pdf |
| Implant Training | Gurukrupa Builders, Karamala | KADAM SAGAR | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Patwardhan Consultants Pvt. Ltd., Pune | GURAV SANKET SHRIRANG | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Ashok S. Bannenavar, Archietect and Engineer, Jath | /KATE PRANITA ANAND | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Unique Builders, Malshiras | NARSALE SUHAS JAYHIND | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | S.M. Autade Pvt. Ltd, Mangalwedha | MULE AVINASH SITARAM | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Chavan V. N. Engineer, Osmanabad | /JAGTAP PRAGATI MITU | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Shree Venkatesh Enterprises, Pandharpur | /PAWALE SHRADDHA RAJENDRA | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Patwardhan Consultants Pvt. Ltd., Pune | LONDHE AVINASH RAJENDRA | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |
| Implant Training | Sohel Construction, Madha | MULANI MOIN LATIF | 2018-19 | 17/12/2018 to 31/12/2018 | Implant Training | |

# Academic Year 2019-20

| Academic Year 2019-20 | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Research Paper | Raja Ramanna Centre for Advanced Technology, Indore | Ranjitsinha R. Gidde Prashant M. Pawar, Vishal Dhangaye | 2019-20 | One Day | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/RRG 2.pdf |
| Research Paper | Keystone School of Engineering, Pune | Milind B. Kulkarni, P.M. Ghanegaonka | 2019-20 | One Day | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/MBK_NMRJ2490.pdf |
| Research Paper | DCPL, Gokul Shirgaon MIDC, Kolhapur | B. D. Gaikwad, S. M. Khomane, S. S. Wangikar, C. C. Jadhav, T. A. Jagtap | 2019-20 | One Day | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/BDG_IOP Science.pdf |
| Research Paper | Rajiv Gandhi Institute of Technology, Mumbai, India & K. B. P. College, Pandharpur | S V Jadhav, P M Pawar, S S Wangikar, N N Bhostekar, S T Pawar | 2019-20 | One Day | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/SVJ_IOP Science.pdf |
| Research Paper | M.D. APG Enterprises, Ankoli, Maharashtra, India. | Gururaj K. Inamdar, Ajinkya P. Gaikwad | 2019-20 | One Day | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/GKI_agm.j-3318.169-f.pdf |
| Research Paper | Head, Department of Mechanical Engineering, DYPCEPT Kolhapur | Kuldip S. Pukale, Rameshwar D. Solage, Chetan C. Jadhav, Digvijay Mohite | 2019-20 | One Day | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/KSP_NMRJ2517.pdf |
| Research Paper | Sinhgad Institute of Technology, Lonavala, Pune, Maharashtra, India | Shashikant S. Jadhav, Digambar T. Kashid, Sachin M. Kale, Subhash V. Jadhav, Vikram R. Chavan, Dattatraya S. Ghodake | 2019-20 | One Day | Paper Publication | https://naac.sveri.ac.in/Criteria_3/3_5_1/SSJ_NMRJ2515.pdf |

| Academic Year 2019-20 (Continued…) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Research Paper | National Institute of Technology Silchar, Silchar, Assam | Sandeep Sitaram Wangikar, Ranjitsinha R. Gidde, Shrikrushna B. Bhosale & Avinash K. Parkhe, Promod Kumar Patowari, Rahul Dev Misra | 2019-20 | 22-Dec-20 | Paper Publication | https://www.tandfonline.com/doi/full/10.1080/10426914.2020.1843674 |
| Research Paper | National Institute of Technology Silchar, Silchar, Assam & Jalpaiguri Govt. Engineering College, Jalpaiguri, West-Bengal, India | Shrikrushna B. Bhosale, Sumit Bhowmik, Amitava Ray | 2019-20 | One Day | Paper Publication | https://www.sciencedirect.com/science/article/pii/S2238785420321086 |
| Student Industrial Visits | Ideaz multimedia Solutions Pvt. Ltd., kolhapur, Compserves consultant's Pvt ltd., Pune, E-Xpert web solutions Pune | BE B | 2019-20 | Two days | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/Ideaz multimedia Compserves consultants and Expert web solutions.docx.pdf |
| Student Industrial Visits | ISRO, Hydrabad | SE-A,B | 2019-20 | Three day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_S.Y.B.Tech_SEM I_19-20.pdf |

| Academic Year 2019-20 (Continued...) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Industrial Visits | 1.Vishweshwarayya Technological Museum, ISRO, Banglore<br>2. JVS Electronics<br>3. IO LabTech Solutions | TE-A | 2019-20 | Three day | Student Industrial Visits | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_S.Y.B.Tech_SEM I_19-20.pdf |
| One month training | Dacway, Solapur | Mr. H. M. Tamboli | 2019-20 | 30 Days | One month Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/HMT.pdf |
| Vacational Training | B R Electronics Solapur | HEGADE NIKITA MARUTI | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.50 AM (3).jpeg |
| Vacational Training | Apron Tech Satara | LOKHANDE MAYURI SANJAY | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.09 AM (1).jpeg |
| Vacational Training | Kanaad service Sagali | DANDAWATE UPENDRA NARSINHA | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.47 AM (2).jpeg |
| Vacational Training | Apron Tech Satara | CHAKOTE DIGVIJAY GIRISH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.07 AM.jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Sinerar SLV Solapur | KHANDARE DARSHANA RAJESH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.44 AM (4).jpeg |
| Vacational Training | Kanaad service Sagali | SHAIKH IMRAN HAJISAB | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/imran.jpeg |
| Vacational Training | Kanaad service Sagali | KALE KOMAL KIRAN | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.50 AM (2).jpeg |
| Vacational Training | Kanaad service Sagali | MIRGANE SHRADDHA BHARAT | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.50 AM (1).jpeg |
| Vacational Training | Kanaad service Sagali | MENDHEGIRI SHWETA SHANTINATH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.09 AM (2).jpeg |
| Vacational Training | Shivhard electrical Sangola | WAGAJ PRATIKSHA HANUMANT | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.48 AM.jpeg |
| Vacational Training | Kanaad service Sagali | NIKTE GEETA PRASHANT | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/abhi.jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Vedam Lab Solapur | HODADE RUSHIKESH SOMNATH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.08 AM (2).jpeg |
| Vacational Training | Solar electronics solapur | PACHAVE NITIN SUBHASH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.45 AM (2).jpeg |
| Vacational Training | Kanaad service Sagali | VHARGAR MONALI VILAS | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.09 AM.jpeg |
| Vacational Training | Kanaad service Sagali | KHADEKAR NISHA SOUDAGAR | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.11 AM (1).jpeg |
| Vacational Training | Solar electronics solapur | HARANE SANJIVANI RAJU | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.46 AM (3).jpeg |
| Vacational Training | Bajaj Electrical Pune | DANURE AMIT GANPATRAO | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.47 AM.jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Solar electronics solapur | UBALE SANTOSH DATATRAYA | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.47 AM (3).jpeg |
| Vacational Training | Solar electronics solapur | MAHAJAN ISHITA PRADEEP | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.46 AM (1).jpeg |
| Vacational Training | Kanaad service Sagali | MULE SOUJANYA SUBHASH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.06 AM (3).jpeg |
| Vacational Training | Solar electronics solapur | PAWAR SANJAY SHANKAR | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.45 AM (1).jpeg |
| Vacational Training | Solar electronics solapur | MHAMANE AISHWARYA SANJAY | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.51 AM (2).jpeg |
| Vacational Training | Solar electronics solapur | KALE ABHILASHA AVINASH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/abhi.jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Solar electronics solapur | SHEMBADE JANHAVI DILIP | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.08 AM (1).jpeg |
| Vacational Training | Vedam Lab Solapur | CHAVAN RUTUJA SHIVAJI | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.12 AM.jpeg |
| Vacational Training | Kanaad service Sagali | RAJMANE MANALI SUNIL | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/imran.jpeg |
| Vacational Training | Solar electronics solapur | MULANI SALMAN SHAHAJAHAN | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.08 AM.jpeg |
| Vacational Training | Vedam Lab Solapur | REPAL SHRADDHA ANIL | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.12 AM (1).jpeg |
| Vacational Training | Kanaad service Sagali | GUNJAL SUREKHA VILAS | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.49 AM (1).jpeg |
| Vacational Training | Solar electronics solapur | CHAVARE BHUSHAN MAHAVIR | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.44 AM (1).jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Solar electronics solapur | PHULARE NIKITA SHAM | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.10 AM (2).jpeg |
| Vacational Training | Kanaad service Sagali | WALEKAR SMITA MAHADEV | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.48 AM (1).jpeg |
| Vacational Training | Kanaad service Sagali | BACHUTE BHUSHAN SIDDESHWAR | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.11 AM.jpeg |
| Vacational Training | Kanaad service Sagali | THENGAL PALLAVI VISHWAS | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.06 AM.jpeg |
| Vacational Training | Shivhard electrical Sangola | BHARAMA SWATI SHIVALINGAPPA | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.33.13 AM (1).jpeg |
| Vacational Training | Shivhard electrical Sangola | BENNESUR LAXMI IRANNA | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.11 AM (2).jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Shivhard electrical Sangola | BHOSALE UTKARSHA BHARAT | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.51 AM (3).jpeg |
| Vacational Training | Shivhard electrical Sangola | DEVAKATE GAYATRI CHICHALAPPA | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.51 AM (1).jpeg |
| Vacational Training | Shivhard electrical Sangola | KUMBHAR SEEMA RAMDAS | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.51 AM (1).jpeg |
| Vacational Training | Shivhard electrical Sangola | INDI SHIVGANGA SUBHASH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.48 AM (2).jpeg |
| Vacational Training | Shivhard electrical Sangola | DHEKALE PRATIKSHA RAJARAM | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.07 AM (1).jpeg |
| Vacational Training | Solar electronics solapur | GHODAKE SHUBHAM TUKARAM | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.11 AM (3).jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Solar electronics solapur | JADHAV VRUSHALI ARUN | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.49 AM (2).jpeg |
| Vacational Training | Divaya Elecrtical Solapur | BAGAL MADHURI NAVANATH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.07 AM (2).jpeg |
| Vacational Training | Shivhard electrical Sangola | JAMAGI YOGINI SIDDHAPPA | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.33.13 AM.jpeg |
| Vacational Training | Shivhard electrical Sangola | WADTILE VAISHNAVI JANARDAN | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.07 AM (3).jpeg |
| Vacational Training | Shivhard electrical Sangola | RANDIVE ASHWINI BRAMHADEV | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.49 AM.jpeg |
| Vacational Training | Sinerar SLV Solapur | SHINDE JYOTI SANJAY | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.51 AM (4).jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Sinerar SLV Solapur | MUKARE VAIBHAV SURYKANT | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.46 AM.jpeg |
| Vacational Training | Sinerar SLV Solapur | KATAKAMAWAR SHREENIVAS DATTATRAY | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.33.13 AM (2).jpeg |
| Vacational Training | Sinerar SLV Solapur | VHASALE SAGAR APPASO | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.08 AM (3).jpeg |
| Vacational Training | Shivhard electrical Sangola | JAGTAP SURANJALI BANDU | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.11 AM (4).jpeg |
| Vacational Training | Shivhard electrical Sangola | DUDHAL RUTAJA SURESH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.50 AM.jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Vacational Training | Sinerar SLV Solapur | GODASE SHRUTI NAGESH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.49 AM (3).jpeg |
| Vacational Training | Shivhard electrical Sangola | MORE SUHASHINI BALAJI | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.51 AM.jpeg |
| Vacational Training | Shivhard electrical Sangola | WALUGADE PRATIKSHA ANKUSH | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.12 AM (3).jpeg |
| Vacational Training | Shivhard electrical Sangola | TAPISE POOJA DIGAMBAR | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.44 AM (2).jpeg |
| Vacational Training | Solar electronics solapur | SHELAKE PUJA RAMCHANDRA | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.32.46 AM (1).jpeg |
| Vacational Training | Sinerar SLV Solapur | MASKE AKSHAY RAJENDRA | 2019-20 | 15 days | Vacational Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/WhatsApp Image 2020-09-01 at 1.31.12 AM (2).jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Faculty Industrial Training | SVERI's COE, Pandharpur and Structon Project Consultants PVT. LTD., Solapur | Shrikrushna Gosavi | 2019-20 | 18/11/2019 to 20/12/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/Training Certificate SAG.pdf |
| Faculty Industrial Training | SVERI's COE, Pandharpur and PSP Projects LTD., Ahamadabad (Pandharpur Site) | Chetan R. limkar | 2019-20 | 19/11/2019 to 18/12/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/Training Certificate CRL.pdf |
| Research Paper | Walchand College of Engineering, Sangali | Surekha M. Jadhav, Aaditya C. Nadagouda, Prashant M. Pawar and Nishigandha V. Mahamuni | 2019-20 | One Day | Studies in Indian Place Names. Vol. 40 (88), Pp.279-285. | https://naac.sveri.ac.in/Criteria_3/3_5_1/32.pdf |
| Research Paper | Walchand College of Engineering, Sangali | Nishigandha V. Mahamuni, Aaditya C. Nadagouda, Prashant M. Pawar, Surekha M. Jadhav,Chaitali R. Abhangrao, Sujata J. Ingale and Shubham M. Jadhav | 2019-20 | One Day | Studies in Indian Place Names. Vol. 40 (88), Pp.286-295. | https://naac.sveri.ac.in/Criteria_3/3_5_1/33.pdf |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Research Paper | St. Gonsalo Garcia College, Vasai, Tal. Palghar, Mumbai, Maharashtra, School of Earth Sciences, Solapur University, Solapur, Maharashtra and Department of Geology, Rajaram College, Kolhapur, Maharashtra | Pawar R.S., Abhangrao C.R., Zambare N.S., Kulkarni D.D. and S.V. Pathare | 2019-20 | One Day | Studies in Indian Place Names. Vol. 40 (88), Pp.134-136. | https://naac.sveri.ac.in/Criteria_3/3_5_1/21.pdf |
| Research Paper | PAH Solapur University, Solapur, India | Kulkarni D. D., Waghmare Vijay, G.S. Pawar and R.S. Pawar | 2019-20 | One Day | Studies in Indian Place Names. Vol. 40 (88), | https://naac.sveri.ac.in/Criteria_3/3_5_1/22.pdf |
| Research Paper | PAH Solapur University, Solapur | D. D. Kulkarni, Amit Kokate, Yogesh Durugwar and R. S. Pawar | 2019-20 | One Day | Studies in Indian Place Names. Vol. 40 (88), Pp.91-99. | https://naac.sveri.ac.in/Criteria_3/3_5_1/15.pdf |
| Research Paper | School of Earth Sciences, SRTM University, Nanded - 431 606, India | V.Wagh, S. Kharjule, S. Mukate, R. Pawar, M. Aamalawar and A.M. Varade | 2019-20 | One Day | Journal of Geosciences Research, Vol. 4, No.1, pp. 61-66. | https://www.researchgate.net/publication/336848117_Assessment_of_Groundwater_Quality_in_Aundha_Nagnath_Town_Maharashtra_using_Water_Quality_Index |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Research Paper | St. Gonsalo Garcia College, Vasai, Tal. Palghar, Mumbai, Maharashtra and School of Earth Sciences, SRTM University, Solapur, Maharashtra | Pawar R. S., Zambare N. S., V. M. Wagh and D. B. Panaskar | 2019-20 | One Day | Studies in Indian Place Names. Vol. 40 (88), Pp. 1-3. ISSN: 2394-3114. | https://naac.sveri.ac.in/Criteria_3/3_5_1/10.pdf |
| Research Paper | St. Gonsalo Garcia College, Vasai, Tal. Palghar, Mumbai, Maharashtra and School of Earth Sciences, SRTM University, Solapur, Maharashtra | Zambare N. S., Pawar R. S., Abhangrao C. R., Wagh V. M. and D. B. Panaskar | 2019-20 | One Day | Studies in Indian Place Names. Vol. 40 (88), Pp.9-13. I | https://naac.sveri.ac.in/Criteria_3/3_5_1/11.pdf |
| Research Paper | St. Gonsalo Garcia College, Vasai, Tal. Palghar, Mumbai, Maharashtra and School of Earth Sciences, SRTM University, Solapur, Maharashtra and School of Earth Sciences, PAH Solapur University, Solapur | Pawar R.S., Panaskar D. B., Wagh V.M., D. D. Kulkarni and N. S. Zambare | 2019-20 | One Day | Studies in Indian Place Names. Vol. 40 (88), Pp.14-21. | https://naac.sveri.ac.in/Criteria_3/3_5_1/12.pdf |
| Research Paper | JSPM's Imperial College of Engineering & Research, Wagholi, Pune. | A.A. Sangave, S.J. Mohite, H.R. Pawar, V.V. Kulkarni, C.R. Abhangrao | 2019-20 | One Day | International Journal of Engineering and Advanced Technology (IJEAT) | https://naac.sveri.ac.in/Criteria_3/3_5_1/6. .pdf |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Student Industrial Visit | Automic Power Station, Tarapur, Samundra Maritime Studies, Lonavala S.G. Gears, Tembhurni | SE Students - 140 Faculty - 07 | 2019-20 | 03/03/2020 to 05/03/2020 | S.Y. B.Tech Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/Mech_Industrial Visit Record 2019-20.pdf |
| Student Industrial Visit | Kedar Foundary Pvt. Ltd. Palus, Sangli Sadmate Forging, Palus, Sangli Rocket Engineering Corporation Pvt. Ltd. Kolhapur | SE Students - 132 Faculty - 08 | 2019-20 | 19/09/2019 to 20/09/2019 | S.Y. B.Tech Industrial Visit | |
| Student Industrial Visit | Indo German Tool Room, Aurangabad MSPGCL Hydropower Station, Paithan | TE Students - 120 Faculty - 08 | 2019-20 | 26/09/2019 to 28/09/2019 | TE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_TE_SEM I_19-20.pdf |
| Student Industrial Visit | Saptgiri Industries Pvt. Ptd. Aurangabad Shree Saigan Industries, Aurangabad Core Tech Aurangabad Pvt. Ltd. Aurangabad Empire Mall (Prozone) Pvt. Ltd, Aurangabad | BE Students - 95 Faculty - 06 | 2019-20 | 30/09/2019 to 01/10/2019 | BE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_BE_SEM I_19-20.pdf |
| Student Industrial Visit | Marvelous Metal, Kolhapur, Mahesh Forge, Kolhapur, Jadhav Foundary, Kolhapur, DCPL, Kolhapur | SE Students - 132 Faculty - 09 | 2019-20 | 18/09/2019 & 19/09/2019 | SE Industrial Visit | https://naac.sveri.ac.in/Criteria_3/3_5_1/IV_SE_SEM-I & II_18-19.pdf |
| Faculty Industrial Training | SWASTIK Engineering, Pune | Mr. V. R.Chavan | 2019-20 | 18/11/2019 to 18/12/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/VRC.jpeg |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Faculty Industrial Training | Vijay Engineers, Solapur | Mr. B. T. Gadade | 2019-20 | 21/11/2019 to 21/12/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/BTG.jpeg |
| Faculty Industrial Training | Pask Industries, Pune | Mr. S. Y. Salunkhe | 2019-20 | 27/05/2019 to 27/06/2019 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/SYS.pdf |
| Faculty Industrial Training | Visit to Central Manufacturing Technical Institute (CMTI), Banglore | 1. Prof. S. R. Gavali<br>2. Prof. S. V. Jadhav<br>3. Prof. S. B. Bhosale<br>4. Prof. A. K. Parkhe<br>5. Prof. S. S. Kakade | 2019-20 | 2/25/2019 | Faculty Exchange | https://naac.sveri.ac.in/Criteria_3/3_5_1/CMTI Visit Certificate.pdf |
| Industrial Training/ Internship | Precision Camshaft Limited, Solapur | Shraddha dattatray Gajakosh | 2019-20 | 11/12/2020 to 18/12/2020 | Industrial Training | https://naac.sveri.ac.in/Criteria_3/3_5_1/Mech_Industrial Visit Record 2019-20.pdf |
| Industrial Training/ Internship | Smart Knower | Gayatri Vinayak Joshi | 2019-20 | 01/11/2020 to 31/12/2020 | Industrial Training | |
| Industrial Training/ Internship | AFour Technologies Pvt Ltd Pune | Namrata Parvat | 2019-20 | 28/05/2020 to 28/07/2020 | Industrial Training | |
| Industrial Training | Intech Olympiad COEP Pune | Yash Gadekar | 2019-20 | 28/05/2020 to 28/08/2020 | Industrial Training | |
| Industrial Training/ Internship | Precision Camshaft Limited, Solapur | Prajwal Dattatraya Musale | 2019-20 | 11/12/2020 to 18/12/2020 | Industrial Training | |

| Academic Year 2019-20 (Continued...) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Industrial Training/ Internship | AFour Technologies Pvt Ltd Pune | Arati Lale | 2019-20 | 28/05/2020 to 28/07/2020 | Industrial Training | *Continued..*<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Mech_Industrial Visit Record 2019-20.pdf |
| Industrial Training/ Internship | Bhavya Enterprises, Makhadumpur, Digha, Patana-11 | Vaishali Dilip More | 2019-20 | 01/10/2020 to 30/10/2020 | Industrial Training | |
| Industrial Training/ Internship | AFour Technologies Pvt Ltd Pune | Patil Madan Kalyan | 2019-20 | 28/05/2020 to 28/07/2020 | Industrial Training | |
| Industrial Training/ Internship | AFour Technologies Pvt Ltd Pune | Akash Prasad Ajgar | 2019-20 | 28/05/2020 to 28/07/2020 | Industrial Training | |
| Guest Lecture | Mr. Ashish Bodake, Mangalmurthi construction, Pune | Second Year Students | 2019-20 | 14/8/2019 | Guest Lecture | https://naac.sveri.ac.in/Criteria_3/3_5_1/Guest 19-20 Civil.pdf |
| Guest Lecture | Mr. Ashish Bodake, Mangalmurthi construction, Pune | Third and Final Year | 2019-20 | 14/8/2019 | Guest Lecture | |
| Guest Lecture | Mr. Pratap Dandage Dandage Associates, Hadapsar Pune | Second Year Students | 2019-20 | 18/8/2019 | Guest Lecture | |
| Guest Lecture | Sanyog Colony,Kalepadal,Hadapsar, Pune | Second Year Students | 2019-20 | 22/8/2019 | Guest Lecture | |
| Guest Lecture | Ashutosh Patil Prove Designers, Green ward farm, Solapur. | Second Year Students | 2019-20 | 24/8/2019 | Guest Lecture | |
| Guest Lecture | Mr. Ram Panth, Birla Aditya Group, Gulbarga, Karnataka. | Third Year Students | 2019-20 | 8/9/2019 | Guest Lecture | |
| Guest Lecture | Mr. Ram Panth, Birla Aditya Group, Gulbarga, Karnataka. | Final Year Students | 2019-20 | 8/9/2019 | Guest Lecture | |

| Academic Year 2019-20 (Continued…) | | | | | | |
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| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Guest Lecture | Mr. Ram Panth, Birla Aditya Group, Gulbarga, Karnataka. | Second Year Students | 2019-20 | 12/9/2019 | Guest Lecture | Continued… https://naac.sveri.ac.in/Criteria_3/3_5_1/Guest 19-20 Civil.pdf |
| Guest Lecture | Er. Abhinav Salunkhe, Consulting Civil Engineer, Raut Salunkhe Associate, Tal-mahud,dist-Sangola | Second, third and Final Year Students of Civil Department | 2019-20 | 14/9/2019 | Guest Lecture | |
| Guest Lecture | Mr. Ram Panth, Birla Aditya Group, Gulbarga, Karnataka. | Third Year Students | 2019-20 | 19/1/2020 | Guest Lecture | |
| Guest Lecture | Mr. Ram Panth, Birla Aditya Group, Gulbarga, Karnataka. | Second, third and Final Year Students of Civil Department | 2019-20 | 12/1/2020 | Guest Lecture | |
| Guest Lecture | Mr. Nitin Patil, JTO, Civil, Bharat Sanchar Nigam Limited, Pune | Second, third and Final Year Students of Civil Department | 2019-20 | 22/9/2019 | Guest Lecture | |
| Guest Lecture | Dr. Vidya Nitin Patil, AISMS,College of engg.Pune | Second, third and Final Year Students of Civil Department | 2019-20 | 22/9/2019 | Guest Lecture | |
| Guest Lecture | Mr. Chandrshekhar Phand L& T, TIIC Infrastructure, Mumbai | Final Year Students | 2019-20 | 30/9/2019 | Guest Lecture | |
| Guest Lecture | Ms. Krupali Sonagela, Founder CEO, Career Patrica, Mumbai | Second Year Students of Civil Department | 2019-20 | 23/02/2020 | Guest Lecture | |

| Academic Year 2019-20 (Continued...) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Guest Lecture | Prof. M.M.Wagh, Coordinator, Energy Technology, Shivaji University,Kolhapur | Final Year Students | 2019-20 | 20/07/19 | Guest Lecture | https://naac.sveri.ac.in/Criteria_3/3_5_1/Guest Lecture_2019-20.pdf |
| Guest Lecture | Mr. Anand Thakar, Director, CAD / CAM Guru, Pune | Final Year Students | 2019-20 | 25/07/19 | Guest Lecture | |
| Guest Lecture | Mr.Umakant Katu, Senior Manager, Whirlpool USA | Third Year Students | 2019-20 | 27/07/19 | Guest Lecture | |
| Guest Lecture | Mr.Suhas Bagal, Engineer, BOSCH Ltd, Nashik | Final Year Students | 2019-20 | 28/07/19 | Guest Lecture | |
| Guest Lecture | Mr.Shrinivas Patil MIT Railway Engineering College, Barshi, Dist-Barshi | Third Year Students | 2019-20 | 03//08/19 | Guest Lecture | |
| Guest Lecture | Mr.Mohan Kolhe, Electrical Engineering Department,University of Agder, Norway. | Second Year Students | 2019-20 | 04/08/19 | Guest Lecture | |
| Guest Lecture | Prof. D.P. Kamble, Asst. Professor, APCOER, Pune | Final Year Students | 2019-20 | 11/08/19 | Guest Lecture | |
| Guest Lecture | Mr. Ganesh Karne, Senior Trainer, Bosch Ltd. Pune | Final Year Students | 2019-20 | 16/08/19 | Guest Lecture | |

| Academic Year 2019-20 (Continued…) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Guest Lecture | Mr. Atish P. Pawar, Manager Tool Design, Walchandnagar Industries Ltd. Walchandnagar | Second Year Students | 2019-20 | 24/09/19 | Guest Lecture | Continued…<br><br>https://naac.sveri.ac.in/Criteria_3/3_5_1/Guest Lecture_2019-20.pdf |
| Guest Lecture | Mr. Atish p. Pawar, Manager Tool Design, Walchandnagar Industries Ltd. Walchandnagar | Third Year Students | 2019-20 | 24/09/19 | Guest Lecture | |
| Awareness Program | Mr. Yogesh Deshmukh, Food Safety Officer, Solapur | Second Year Students | 2019-20 | 24/09/19 | Awareness Program | |
| Awareness Program | Mr. Yogesh Deshmukh, Food Safety Officer, Solapur | Third Year Students | 2019-20 | 24/09/19 | Awareness Program | |
| Guest Lecture | Mr. Shriram Kakade, CAE Analyst, Sclinder India Pvt. Ltd. Pune | BE Mech | 2019-20 | 28/09/19 | Guest Lecture | |
| Guest Lecture | Mr. Rohit Pawar, Senior Executive, Siemens Ltd., Mumbai | TE Mech | 2019-20 | 04/10/19 | Guest Lecture | |
| Guest Lecture | Mr. Shriram Kakade, CAE Analyst, Sclinder India Pvt. Ltd. Pune | S. Y. B. Tech Mech | 2019-20 | 05/10/19 | Guest Lecture | |

| Academic Year 2019-20 (Continued…) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Guest Lecture | Mr. Shriram Kakade, CAE Analyst, Sclinder India Pvt. Ltd. Pune | BE Mech | 2019-20 | 06/10/19 | Guest Lecture | Continued… https://naac.sveri.ac.in/Criteria_3/3_5_1/Guest Lecture_2019-20.pdf |
| Guest Lecture | Dr. Nikhil Shende, Director, S and I Engg. Solutions Pvt.Ltd. Bangalore | TE Mech | 2019-20 | 10/10/19 | Guest Lecture | |
| Guest Lecture | Mr. Swapnil Shashikant Panke, Vernier Design Solution, Pune. | TE Mech | 2019-20 | 6/1/2020 | Guest Lecture | |
| Bridge Session | Mr. Joshi Ramchandra Gopal , Director, Advance Measuring Systems, Kolhapur | SY B. Tech Mech | 2019-20 | 18/01/2020 | Bridge Session | |
| Bridge Session | Mr. D.D. Mane, Training Engineer, Advance Measuring Systems,Kolhapur. | TE Mech | 2019-20 | 18/01/2020 | Bridge Session | |
| Bridge Session | Mr. Sandip R. Mali,Training Engineer, Advance Measuring Systems, Kolhapur | BE Mech | 2019-20 | 18/01/2020 | Bridge Session | |
| Bridge Session | Mr. Amit S. Vibhut Sr. Electrical Engineer Jakaraya Sugar ltd. Wadapur | SY. B. Tech | 2019-20 | 25/01/2020 | Bridge Session | |

| Academic Year 2019-20 (Continued...) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Carreer Session | Mr. Sagar D. Kavade 3rd Engineer Mechant Navy | SY. B. Tech | 2019-20 | 27/01/2020 | Carreer Session | Continued... https://naac.sveri.ac.in/Criteria_3/3_5_1/Guest Lecture_2019-20.pdf |
| Bridge Session | Mr. Akshay V. More System Engineer TCS Pune | BE Mech | 2019-20 | 10/2/2020 | Bridge Session | |
| Bridge Session | Mr. Atish P. Pawar, Manager Tool Design, Walchandnagar Industries Ltd. Walchandnagar | TE Mech | 2019-20 | 11/2/2020 | Bridge Session | |
| Bridge Session | Mr. Amol B. Sathe Design Engineer TCS Pune. | TE Mech | 2019-20 | 16/02/2020 | Bridge Session | |
| Bridge Session | Mr. Ashutosh J. Kate Asst. Prof. SIT Lonavala | SY B. Tech Mech | 2019-20 | 16/02/2020 | Bridge Session | |
| Bridge Session | Mr. D. D. Ghodake Asst. Prof. SIT Lonavala | TE Mech | 2019-20 | 17/02/2020 | Bridge Session | |
| Bridge Session | Mr. Jayesh M. Jadhav Asst. Prof. JSPM, NTC, Pune | TE Mech | 2019-20 | 18/02/2020 | Bridge Session | |
| Guest Lecture | Jspm's BIT Barshi | Second Year Students | 2019-20 | 10/10/2019 | Guest Lecture | https://naac.sveri.ac.in/Criteria_3/3_5_1/One page guest lecture record.pdf |
| Guest Lecture | N.K.O.C.O.E Solapur | Final Year Students | 2019-20 | 10/10/2019 | Guest Lecture | |
| Expert Lecture | Risbhah Instrument, Nashik | Final Year Students | 2019-20 | 23/7/19 | Expert Lecture | |
| Guest Lecture | Bharathi Vidyapeeth COE, Kohlapur | Second Year Students | 2019-20 | 25/8/19 | Guest Lecture | |
| Guest Lecture | GNDEC, Bidar | Third Year Students | 2019-20 | 30/09/2019 | Guest Lecture | |

| Academic Year 2019-20 (Continued...) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Guest Lecture | YTC Satara | Third Year Students | 2019-20 | 10-Oct-19 | Guest Lecture | Continued... https://naac.sveri.ac.in/Criteria_3/3_5_1/One page guest lecture record.pdf |
| Guest Lecture | N.K.O.C.O.E Solapur | Third Year Students | 2019-20 | 6/10/2019 | Guest Lecture | |
| Expert Lecture | Tibcon software solution | Third Year Students | 2019-20 | 8/31/2019 | Expert Lecture | |
| Guest Lecture | VVPCOE,Solapur | Third Year Students | 2019-20 | 5/10/2019 | Guest Lecture | |
| Guest Lecture | NBN Singhgad, Solapur | Third Year Students | 2019-20 | 4/10/2019 | Guest Lecture | |
| Guest Lecture | VVPCOE,Solapur | Third Year Students | 2019-20 | 3/10/2019 | Guest Lecture | |
| Guest Lecture | Basveswar enggineering college ,bagalkot | Third Year Students | 2019-20 | 7/10/2019 | Guest Lecture | |
| Guest Lecture | KIT, Kolhapur | Final Year Students | 2019-20 | 1/10/2019 | Guest Lecture | |
| Expert Lecture | Whirlpool, pune | Third Year Students | 2019-20 | 30/09/2019 | Expert Lecture | |
| Sponsored Project | Mind IT Services, Miraj | Pradip Mali | 2019-20 | 1 Year | Sponsored Project | https://naac.sveri.ac.in/Criteria_3/3_5_1/Sponsored Projects.pdf |
| Sponsored Project | | Jadhav Shrihari K | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Karankot Rohan S | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Kambale Rohit L | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Dolle Mahadev I | 2019-20 | 1 Year | Sponsored Project | |

| Academic Year 2019-20 (Continued...) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Sponsored Project | ADJ Infotech, Pvt. Ltd. Solapur | Ardak Suraj S. | 2019-20 | 1 Year | Sponsored Project | Continued... https://naac.sveri.ac.in/Criteria_3/3_5_1/Sponsored Projects.pdf |
| Sponsored Project | | Kalshetti Ajit P | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Kedare Vishal G | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Kalekar Aditya | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Gund Atul K | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | Video Player | Shubham S Shirur | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Siddhnath Bhandare | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Moulaali Hujare | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Pratap Madgundi | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Deshmukh A. G. | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | ADJ Infotech, Pvt. Ltd. Solapur | Tarannum N Tamboli | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Tabassum N Tamboli | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Pratiksha R Shindepatil | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Mayuri Z Surwase | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | Mind IT Services, Miraj | Pradipta Mahimkar | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Srushti S Dhavale | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Madhura G Shinde | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Prajkta S Sugandhi | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | DacwayInfo., Solapur | Dhanaraj T Patil | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Vishal P Munguskar | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Mujamuil S Shaikh | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Mayur R Patil | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Pankaj A Shinde | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | | 2019-20 | 1 Year | Sponsored Project | |

| Academic Year 2019-20 (Continued...) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Sponsored Project | Pask Industries Pvt. Ltd., Chakan MIDC, Pune | Gaikwad Pruthvijit Vasudev | 2019-20 | 1 Year | Sponsored Project | https://naac.sveri.ac.in/Criteria_3/3_5_1/Sponsored Project summary 2019-20.pdf |
| Sponsored Project | | Gaikwad Sagar Navnath | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Phalake Suhas Shrimant | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Sawant Bhushan Pradyumna | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | S. G. Gears, MIDC, Tembhurni | Khaladkar Vyankatesh Yuvraj | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Ajit S. Jadhav | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Onkar P. Chidrewar | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Swami Pranav Vivekanand | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | Pask Industries Pvt. Ltd., Chakan MIDC, Pune | Deshmukh Ruturaj Abasaheb | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Aiwale Prathamesh Babu | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Chavan Aniket Dnyaneshwar | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Jadhav Shubham Jayshankar | 2019-20 | 1 Year | Sponsored Project | |

| Academic Year 2019-20 (Continued…) | | | | | | |
|---|---|---|---|---|---|---|
| **Title of the collaborative activity** | **Name of the collaborating agency with contact details** | **Name of the participant** | **Year of collaboration** | **Duration** | **Nature of the activity** | **Link to the relevant document** |
| Sponsored Project | SPARTAN Technologies Pvt. Ltd. Machnur | Chavan Aniket Balasaheb | 2019-20 | 1 Year | Sponsored Project | Continued… https://naac.sveri.ac.in/Criteria_3/3_5_1/Sponsored Project summary_2019-20.pdf |
| Sponsored Project | | Pore Onkar Gulabrao | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Patil Pushkar Mahesh | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Shinde Sudarshan Balasaheb | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | Sitaram Engineering Works, Moshi, Pune | Bhanvase Amar Maruti | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Gosavi Vaibhav Digambar | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Jadhav Rishabh Dnyaneshwar | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Godase Pavan Vilas | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | Dynamic Lasers, Chikali, Pune | Shete Shivam Sanjay | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Chavan Nikhil Vijay | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Bhagwat Rushikesh Manoj | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Gaikwad Suraj Subhash | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | Leena Engineering Works, Solapur | Khadatare Rahul Suresh | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Pravin Vikram Chavan | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Wagh Govind R. | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Atkale Shubhan R. | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | SPARTAN Technologies Pvt. Ltd. Machnur | Naiknavare Mayur Baburao | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Popale Ganesh Navanath | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Landage Balaji Vitthal | 2019-20 | 1 Year | Sponsored Project | |
| Sponsored Project | | Charansinha U. Raut | 2019-20 | 1 Year | Sponsored Project | |

# APPENDIX-IV

# CERTIFICATES OF QUALITY AUDITS

Shri Vithal Education & Research Institute's
COLLEGE OF ENGINEERING, PANDHARPUR
P.B.No.54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413304, District: Solapur (Maharashtra)
Tel.: (02186) 216063, 9503103757, Toll Free No.: 1800-3000-4131 e-mail.: coe@sveri.ac.in
Website.: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)
NBA Accredited all eligible UG Programmes, NAAC Accreditated Institute,ISO 9001:2015 Certified Institute.
Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune.

# INSTITUTE ACCREDITATION DETAILS

| Sr.no. | Name of Accreditation Certificates |
|---|---|
| 1. | Certificate of Accreditation (NAAC) |
| 2. | National Board of Accreditation |
| 3. | National Board of Accreditation (Extension Certificate) |
| 5. | ISO9001:2015 |

# 1. Certificate of Accreditation (NAAC)

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

*An Autonomous Institution of the University Grants Commission*

# Certificate of Accreditation

The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed
Peer Team is pleased to declare the
SVERI's College of Engineering
Gopalpur, Pandharpur, Solapur, affiliated to Solapur University, Maharashtra as
Accredited
with CGPA of 2.75 on four point scale
at B grade
valid up to November 14, 2020

Date : November 15, 2015

Director

# 2. National Board of Accreditation

# NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620-22, 2436 0654 Telefax: +91 11 2436 0682
Website: www.nbaind.org


NATIONAL BOARD of ACCREDITATION

**File No. 28-288-2010-NBA** **Date : 10-04-2017**

To,

**The Principal**
**Shri Vithal Education & Research Institute's**
**College of Engineering, Pandharpur,**
**P.B. No. 54, Gopalpur,**
**Ranjani Road, Maharashtra- 413304.**

**Subject: Accreditation status of programmes applied by Shri Vithal Education & Research Institute's College of Engineering, Pandharpur, P.B. No. 54, Gopalpur, Ranjani Road, Maharashtra.**

Sir,

This has reference to your application Id. No. 1057 dated 17/10/2014 seeking accreditation by National Board of Accreditation to UG Engineering programmes offered by Shri Vithal Education & Research Institute's College of Engineering, Pandharpur, P.B. No. 54, Gopalpur, Ranjani Road, Maharashtra.

2. An Expert Team conducted on-site evaluation of the programmes during **17th - 19th February, 2017**. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programmes as given in the table below:

| S. No. | Name of the Programme (UG) | Basis of Evaluation | Accreditation Status | Period of validity | Remarks |
|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Civil Engineering | Tier-II (January, 2013 Document) | Provisionally Accredited | Academic Years 2017-18 to 2019-20 i.e., upto 30-06-2020 | Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the competent authority, whichever is earlier. |
| 2. | Mechanical Engineering | | Provisionally Accredited | | |
| 3. | Computer Science and Engineering | | Provisionally Accredited | | |
| 4. | Electronics and Telecommunication Engineering | | Provisionally Accredited | | |

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The programs have been granted provisional accreditation. Shri Vithal Education & Research Institute's College of Engineering, Pandharpur, P.B. No. 54, Gopalpur, Ranjani Road, Maharashtra should submit the Compliance Report at least six months before the expiry of validity of accreditation mentioned above to be eligible to be considered by the concerned Committee in NBA for further processing of the accreditation status. This could entail further extension of accreditation or a revisit, as deemed appropriate by NBA Committees.

**Contd/...**

5. The accreditation status awarded to the programmes as indicated in the above table does not imply that the accreditation has been granted to Shri Vithal Education & Research Institute's College of Engineering, Pandharpur, P.B. No. 54, Gopalpur, Ranjani Road, Maharashtra as a whole. **As such, the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is programme accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously.** Complete name of the programme(s) accredited, level of programmes and the period of validity of accreditation, as well as the date from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

6. The accreditation status of the above programmes is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programmes as indicated in the table in paragraph 2, appears on the website and information bulletin of the Institute.

7. The accreditation status awarded to the programmes as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

8. A Copy of the Report of Chairman of the Visiting Team and copies of Evaluators' Reports in respect of the above programmes are also enclosed.

9. If the Institute is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,

(Dr. Anil Kumar Nassa)
Member Secretary

**Encls**: 1.Copy of Report of Chairman of the Visiting Team.
2. Copies of Expert Reports of the Visiting Team.

Registrar
cc to: All the Deans & HoDs
B Ponge
25/04/2017

**Copy to:**

1. The Director of Technical Education
Mahapalika Marg, Dhobi Talao,
Chhatrapati Shivaji Terminus Area,
Fort, Mumbai,
Maharashtra 400001.

College of Engineering
Pandharpur.
Inward No. 88
Date - 25/04/2017

2. The Registrar,
Solapur University,
Solapur Pune National Highway,
Kegaon, Solapur, Maharashtra 413255

3. Master Accreditation Folder of the State.

# 3.National Board of Accreditation (Extension Certificate)

# NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620-22, 2436 0654 ; Telefax: +91 11 4308 4903
Website: www.nbaind.org


NATIONAL BOARD of ACCREDITATION

F. No. 28-288-2010-NBA

Dated: 08-06-2020

To,

**The Principal**
**Shri Vithal Education & Research Institute's College of Engineering,**
**Pandharpur, P.B. No. 54,**
**Gopalpur, Ranjani Road,**
**Maharashtra- 413304.**

**Subject: Further accreditation status on the basis of Compliance Report of the programs in Tier II offered by Shri Vithal Education & Research Institute's College of Engineering, Pandharpur, P.B. No. 54, Gopalpur, Ranjani Road, Maharashtra- 413304.**

Sir,

This is regarding Compliance Report submitted by **Shri Vithal Education & Research Institute's College of Engineering, Pandharpur, P.B. No. 54, Gopalpur, Ranjani Road, Maharashtra- 413304** for the UG Engineering programs which were accredited by NBA in Tier-II for academic years 2017-18 to 2019-20 whose validity is expiring on 30.06.2020.

2. An Expert Team conducted data verification of the programs on 29th February, 2020. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programs as given in the table below:

| Sl. No. | Name of the Program(s) (UG) | Basis of Evaluation | Accreditation Status | Period of validity | Remarks |
|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | **Civil Engineering** | Tier-II | Accredited | Academic Years 2020-2021 to 2022-2023 i.e. upto 30-06-2023 | Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the competent authority, whichever is earlier. |
| 2. | **Mechanical Engineering** | | Accredited | | |
| 3. | **Computer Science and Engineering** | | Accredited | | |
| 4. | **Electronics and Telecommunication Engineering** | | Accredited | | |

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The accreditation status awarded to the programs as indicated in the above table does not imply that the accreditation has been granted to **Shri Vithal Education & Research Institute's College of Engineering, Pandharpur, P.B. No. 54, Gopalpur, Ranjani Road, Maharashtra- 413304** as a whole. **As such the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously.** Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, as well as the Academic Year from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

**Contd./...**

5. The accreditation status of the above programs is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programs as indicated in the table in paragraph 2, appears on the website and information bulletin of the Institute.

6. The accreditation status awarded to the programs as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

7. A copy each of Report of the Visiting Team in respect of the above programs is enclosed.

Yours faithfully,

(Dr. Anil Kumar Nassa)
Member Secretary

**Encls**: 1.Copy each of Report of the Visiting Team in respect of the programs.

Copy to:

1. The Director of Technical Education,
   Mahapalika Marg, Dhobi Talao,
   Chhatrapati Shivaji Terminus Area,
   Fort, Mumbai, Maharashtra-400 001.

2. The Registrar,
   Solapur University,
   Solapur Pune National Highway,
   Kegaon, Solapur, Maharashtra 413255.

3. Accreditation File

4. Master Accreditation file of the State

Registrar
B. Ronge
25/07/2020

# 4. ISO 9001:2015

# Certificate

| | |
|---|---|
| Standard | **ISO 9001:2015** |
| Certificate Registr. No. | **85 100 001 08181** |
| Certificate Holder: | **Shri Vitthal Education & Research Institute's College of Engineering, Pandharpur**<br>**Gopalpur – Ranjani Road, PO Box 54, Gopalpur, Pandharpur – 413 304, Dist – Solapur, Maharashtra, India.** |
| Scope: | **Providing Educational Services Leading to Under-Graduate, Post-Graduate and PhD Degree in Engineering, Technology and Management.**<br><br>Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.<br><br>The due date for all future audits is (**06.10**). |
| Validity: | The certificate is valid from **2021-03-16** until **2024-02-01**.<br>First Certification **2015**. |

IAF NABCB QM 010

Bangalore, 2021-03-16

The Certification Body of
TÜV Rheinland (India) Pvt. Ltd.
27/B, 2nd Cross Road,
Electronic City Phase 1.
Bengaluru - 560 100, India.

The validity of this certificate is subject to timely completion of Surveillance audits as agreed in the Contract.
The Validity of the Certificate can be verified under www.tuv.com with the certificate No. 85 100 001 08181.

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