



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.: coo@sveri.ac.in

Website.: [www.sveri.ac.in](http://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 Accredited Institute, ISO 9001:2015 Certified Institute.

Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune.

Ref.:-

Date:- 06/07/2021

1.1:	Number of courses offered by the Institution across all programs during the last five years
<b>Findings of DVV</b>	1) Provide year wise list of courses in each program on letter head of Institution with signature of Principal 2) Provide year wise consolidated statement showing the number of courses in each program with signature of Principal
<b>Response of HEI</b>	1) Year wise consolidated statement showing the number of courses in each program with signature of Principal is attached as <b>Appendix-I</b> . 2) Year wise list of courses in each program on letter head of Institution with signature of Principal is attached as <b>Appendix-II</b> .

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



  
**Principal,**  
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**PANDHARPUR**

# **Appendix-I**

## 1.1 Number of Courses in each Program

Academic Year: 2015-16		
Sr. No.	Name of Program	Number of Courses
1.	Mechanical Engineering Computer Science & Engineering Electronics & Tele-communication Engineering Civil Engineering (common to all branches)	13
2.	Mechanical Engineering	44
3.	Computer Science & Engineering	43
4.	Electronics & Tele-communication Engineering	38
5.	Civil Engineering	45
6.	Mechanical- Design Engineering (PG)	15
7.	Computer Science & Engineering (PG)	19
8.	Electronics & Tele-communication Engineering (PG)	20
9.	Civil -Structural Engineering (PG)	19
10.	Master of Business Administration (MBA)	26



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## 1.1 Number of Courses in each Program

Academic Year: 2016-17

Sr. No.	Name of Program	Number of Courses
1.	Mechanical Engineering Computer Science & Engineering Electronics & Tele-communication Engineering Civil Engineering (common to all branches)	15
2.	Mechanical Engineering	44
3.	Computer Science & Engineering	43
4.	Electronics & Tele-communication Engineering	39
5.	Civil Engineering	45
6.	Mechanical- Design Engineering (PG)	20
7.	Computer Science & Engineering (PG)	19
8.	Electronics & Tele-communication Engineering (PG)	20
9.	Civil -Structural Engineering (PG)	19
10.	Master of Business Administration (MBA)	26



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## 1.1 Number of Courses in each Program

Academic Year: 2017-18		
Sr. No.	Name of Program	Number of Courses
1.	Mechanical Engineering Computer Science & Engineering Electronics & Tele-communication Engineering Civil Engineering (common to all branches)	15
2.	Mechanical Engineering	44
3.	Computer Science & Engineering	43
4.	Electronics & Tele-communication Engineering	39
5.	Civil Engineering	45
6.	Mechanical- Design Engineering (PG)	20
7.	Computer Science & Engineering (PG)	19
8.	Electronics & Tele-communication Engineering (PG)	20
9.	Civil -Structural Engineering (PG)	19
10.	Master of Business Administration (MBA)	26



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## 1.1 Number of Courses in each Program

Academic Year: 2018-19		
Sr. No.	Name of Program	Number of Courses
1.	Mechanical Engineering Computer Science & Engineering Electronics & Tele-communication Engineering Civil Engineering Electrical Engineering (common to all branches)	15
2.	Mechanical Engineering	44
3.	Computer Science & Engineering	43
4.	Electronics & Tele-communication Engineering	39
5.	Civil Engineering	45
6.	Mechanical- Design Engineering (PG)	23
7.	Computer Science & Engineering (PG)	20
8.	Electronics & Tele-communication Engineering (PG)	20
9.	Civil -Structural Engineering (PG)	21
10.	Master of Business Administration (MBA)	26



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## 1.1 Number of Courses in each Program

Academic Year: 2019-2020		
Sr. No.	Name of Program	Number of Courses
1.	Mechanical Engineering Computer Science & Engineering Electronics & Tele-communication Engineering Civil Engineering Electrical Engineering (common to all branches)	15
2.	Mechanical Engineering	41
3.	Computer Science & Engineering	42
4.	Electronics & Tele-communication Engineering	40
5.	Civil Engineering	46
6.	Electrical Engineering	13
7.	Mechanical- Design Engineering (PG)	23
8.	Computer Science & Engineering (PG)	20
9.	Electronics & Tele-communication Engineering (PG)	20
10.	Civil -Structural Engineering (PG)	21
11.	Master of Business Administration (MBA)	26



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# **Appendix-II**



Ref.:-

Date:-

**1.1 List of courses offered across all programs**

A.Y. 2015-2016				
Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>General Science and Engineering</b>				
I-1408968339	Mechanical Engineering		Engineering Physics	
I-1408968327	Computer Science & Engineering		Engineering Chemistry	
I-1408968324	Electronics & Tele-communication Engineering		Engineering Mathematics I	
I-1408968331	Civil Engineering		Applied Mechanics	
			Basic Electrical Engineering	
			Basic Mechanical Engineering	
			Communication Skills-I	
			Workshop Practice	
			Engineering Mathematics II	
			Engineering Graphics	
			Basic Civil Engineering	
			Basic Electronics and Computer Programming	
			Communication Skills-II	
			Analysis of Mechanical Elements	
			Applied Thermodynamics	
			Engineering Mathematics-III	
			Machine Tools and Processes	
			Machine Drawing	
			Computer Programming in C++	
			Workshop Practice-II	
			Environmental Science	
			Theory of Machine-I	
			Manufacturing Process	
			Fluid Mechanics	
			Numerical Methods	
			Electrical and Electronics Technology	
			Computer Aided Machine Drawing	
			Workshop Practice-III	
			Theory of Machine-II	
			Heat and Mass Transfer	
			Metallurgy	
			Machine Design-I	
			Professional Elective I-1) Machine Tool Design 2) Fluid Machinery and Fluid Power 3) Material Handling System	
			Advanced Computer Programming-I	
			Workshop Practice-IV	
I-1408968339	Mechanical Engineering		Self Learning (HSS)-I) Economics 2) Intellectual Property Rights for Technology Development and Management 3) Introduction to Sociology 4) Stress and Coping 5) Professional Ethics & Human Values	
			Metrology and Mechanical Measurements	
			Internal Combustion Engine	
			CAD/CAM	
			Machine Design-II	
			Professional Elective II-1) Experimental Stress Analysis 2) Power Plant and Energy Engineering 3) Tool Engineering 4) Mechanical Vibrations	
			Advanced Computing Techniques-II	
			Workshop Practice-V	
			Self Learning (Technical)	



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Ref.:-

Date:-

**1.1 List of courses offered across all programs**

A.Y. 2015-2016

Program Code	Program Name	Course Code	Course Name	Year of introduction
I-1408968339	Mechanical Engineering		Automatic Control Engineering	2015-16
			Operations Research	
			Refrigeration and Air Conditioning	
			Professional Elective III- 1)Finite Element Methods 2) Automobile Engineering 3) Process Engineering	
			Free Elective I- 1) Industrial Robotics 2) Sugar Engineering 3) Textile Engineering 4) Entrepreneurship Development	
			Industrial Training	
			Project Work-I	
			Industrial and Quality Management	
			Industrial Engineering	
			Professional Elective IV- 1)Mechatronics 2) Computational Fluid Dynamics 3) Production and Operation Management	
			Free Elective II- 1) Software Engineering & cyber security 2) Agro Machine Engineering 3) Plastic Engineering 4) Economics for Engineer	
			Project Work-II	
			General Proficiency	



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Ref.:-

Date:-

**1.1 List of courses offered across all programs**

A.Y. 2015-2016

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Computer Science and Engineering</b>				
I-1408968327	Computer Science & Engineering		Applied Mathematics-I	2015-16
			Discrete Mathematical Structures	
			Advanced C concepts	
			Digital Techniques	
			Computer Graphics	
			Lab - Visual Basic	
			Environmental Studies	
			Applied Mathematics – II	
			Theory of Computation	
			Microprocessors	
			Data Communication	
			Data Structures	
			Lab - Object Oriented Design & Programming through C++	
			Operating System Concepts	
			System Programming	
			Computer Networks	
			Design and Analysis of Algorithm	
			Computer Organization	
			Lab-Java Programming	
			Self Learning (HSS)	
			Compiler Construction	
			Unix Operating System	
			Mobile Computing	
			Database Engineering	
			Software Engineering	
			Lab- Programming in C# .net	
			Mini Project	
			Self Learning (HSS/ Technical)	
			Advanced Computer Architecture	
			Distributed Systems	
			Modern Database Systems	
			Elective – I:1. Human Computer Interaction 2.Digital Signal Processing 3.Software Testing & Quality Assurance 4.Business Intelligence	
	Elective – II 1.Object Oriented Modeling & Design 2.Wireless Ad hoc Networks 3. Intelligent Systems 4.Mobile Application Development	2015-16		
	Vocational Training			
	Lab I - Project Phase I			
	Lab-II - Python			
	Management Information System			
	Information & Cyber Security			
	Elective -III 1.Data Warehousing & Mining 2 Image Processing 3.Information Retrieval 4.Cloud Computing			
	Elective -IV 1 Storage Area Network 2.Web 2.0 & Rich Internet Application 3.Artificial Neural Network 4.Big Data Analytics			
	Lab I - Web Technology			
	Lab II - Project Phase II			
	Lab-III -Open Source Technology			

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## 1.1 List of courses offered across all programs

A.Y. 2015-2016

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Electronics and Tele-Communication Engineering</b>				
I-1408968324	Electronics & Tele-communication Engineering		Engineering Mathematics-III	2015-16
			Electronics Circuit Analysis and Design-I	
			Circuits and Networks	
			Digital Techniques	
			Data Structures	
			Electronic Workshop Lab	
			Electronics Circuit Analysis and Design-II	
			Analogue Communication	
			Control System	
			Linear Integrated Circuit	
			Signals and Systems	
			Electronic Software Lab-I	
			Environmental Studies	
			Electromagnetic Engineering and Radiation System	
			Principles of Digital Communication	2014-15
			Software Engineering and Project Management System	
			Digital Signal Processing	
			Microprocessor	
			Self Learning-Operating System	
			Radar and Microwave Engineering	
			Microcontroller and Application	
			Electronics Applications and System Design	
			Optical Communication	
			Mobile Communication	
			Self Learning	
			Mini Project Hardware	
			Computer Communication Network	2015-16
			VLSI Design	
			Satellite Communicator	
			Coding Theory	
			Elective I-Image Processing	
			Vocational Training	
			Seminar and Project	
			Broadband Communication	
			Multimedia Communication Techniques	
			Embedded Systems	
			Elective II-Wireless Sensor Network	
			Project	



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**I.1 List of courses offered across all programs**

A.Y. 2015-2016

Program Code	Program Name	Course Code	Course Name	Year of introduction
I-1408968331	Civil Engineering	<b>Civil Engineering</b>		
			Concrete Technology	2015-16
			Structural Mechanics-I	
			Surveying-I	
			Building Construction And Drawing	
			Fluid Mechanics-I	
			Engineering Geology	
			Lab practice	
			Structural Mechanics-II	
			Surveying-II	
			Building Construction And Design	
			Fluid Mechanics-II	
			Water Resources Engg-I	
			Engg Mathematics-III	
			Computer Programming And Numerical Methods	
			Environmental Science	
			Design of Steel Structures	
			Geotechnical Engg I	
			Building Planning & Design	
			Environmental Engg I	
			Engineering Management- I	
			Transportation Engg.-I	
			Self Learning (H.S.S. course)	
			Structural Mechanics-III	
			Geotechnical Engg. II	
			Environmental Engg II	
			Engineering Management- II	
			Transportation Engg -II	
			Steel Structural Design & Drawing	
			Mini project (Any subject in Civil Engg.)	
			Assessment of Field Training Report	
			Self Learning (Technical course)	
			Design of Concrete Structures-I	
			Quantity Surveying & Valuation	
			Earthquake Engg.	
			Water Resources Engg. II	
			Elective - I: Open Channel & River Hydraulics, Air Pollution & control, Design of Foundations, Advanced Design of Concrete Structures, Managerial Techniques, Computer Applications in Civil Engg, Advanced structures, Entrepreneurship, Remote Sensing and GIS Applications	
			Seminar	
			Project work	
			Assessment of report on field training-II	
			Design of Concrete Structures-II	
			Construction Practices and Town Planning	
			Elective - II: Advanced Engg. Geology, Ground improvement Techniques, Traffic Engg. & Control, Infrastructural Engineering, Project Appraisal, Solid and Hazardous & Waste Management, Dynamics of Structures, Environmental Management, Design of Bridges	
	Elective - III: Advanced Design of Steel Structures, Industrial Waste Treatment, Water Power Engg, Advanced Concret Technology, Reliability Engg., Finite Element Method, Experimental Stress Analysis, Optimization Techniques, Disaster Management			
	R. C. C. Structural Design & Drawing-II			
	Project work			



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## 1.1 List of courses offered across all programs

A.Y. 2015-2016				
Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Mechanical-Design Engineering (PG)</b>				
I-1408968333	Mechanical- Design Engineering (PG)		Computational Techniques in Design Engineering	2015-16
			Machine Dynamics	
			Solid Mechanics	
			Design of Experiments And Research Methodology	
			Elective -I- 1) Synthesis & Analysis of Mechanisms and Machines 2) Industrial instrumentation 3) Reliability Engineering 4) Mechanical System Design	
			Seminar I	
			Advanced Design Engineering	
			Finite Element Analysis	
			Experimental Stress Analysis	
			Industrial Product Design	
			Elective-II- I) Industrial Tribology 2) Engineering Fracture Mechanics 3) Theory and Analysis of Composite Materials 4) Engineering Design Optimization	
			Seminar II	
			In-plant Training	
			Mini Project (Based on Dissertation)	2015-16
			Dissertation	
<b>Computer Science and Engineering (PG)</b>				
I-1408968341	Computer Science & Engineering (PG)		Theory of Computation	2015-16
			Advanced Operating Systems	
			Analysis of Algorithms	
			Research Methodology	
			Elective-I Data Mining, Mobile Computing, Artificial Neural Network and Generic Algorithm, Enterprise Software Development	
			Seminar-I	
			Internet Routing Algorithms	
			Advanced Database Concepts	
			Elective-II Grid Computing, Real Time Operating System, Natural Language Processing, Infrastructure Management	
			Elective-III Web Technology, Business Intelligent System, Object oriented Software Engineering and Design Patterns	
			Seminar-II	
			Self Learning :-Big Data, Open Source Technologies, Computer Network Administration	
			Lab Practice	
			Dissertation Phase-I Synopsis Submission Seminar	
			Dissertation Phase-II Termwork	
			Dissertation Phase-II Progress Seminar Presentation	
			Dissertation Phase-III Progress Seminar Presentation and report	
			Dissertation Phase-IV Termwork	
			Final Presentation and viva-voce	



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### **1.1 List of courses offered across all programs**

A.Y. 2015-2016				
Program Code	Program Name	Course Code	Course Name	Year of introduction
	Electronics and Tele-Communication Engineering (PG)			
I-1408968335	Electronics & Tele-communication Engineering (PG)		Research Methodology	2015-16
			Antenna Theory and Design	
			Probability and Stochastic processes	
			Advanced Network Systems	
			Elective I- 1. Optical Networks 2. Speech & Video Processing 3. Advanced VLSI Design	
			Seminar- I	
			RF and Microwave Circuit Design	
			Advanced Signal Processing	
			Wireless Communication	
			Cryptography and Network Security	
			Elective II- 1. Wireless Sensor Network & Optimization. 2. Wavelet Transform & Applications. 3. Advanced Embedded Systems.	
			Seminar- II	
			Self Learning: 1. Internet of Things 2. Software Defined and Cognitive Radio 3. Modeling & Simulation of Communication System	
			Lab Practice	
			Dissertation Phase-I Synopsis Submission Seminar	
			Dissertation Phase-II Term work	
			Dissertation Phase-II: Progress Seminar	
			Dissertation PhaseIII: Progress Seminar	
			Dissertation PhaseIV Term Work	
			Final submission of Dissertation and Viva-voce	
	Civil-Structural Engineering (PG)			
I-1408968343	Civil -Structural Engineering (PG)		Theory of Elasticity & Plasticity	2015-16
			Mechanics of structures	
			Advanced Design of Concrete Structures	
			Dynamics of Structures	
			Elective-I: Design of Foundations, Advances in Concrete Composites, Structural Optimization	
			Seminar-I	
			Theory of Plates & Shells	
			Finite Element Method	
			Earthquake Engineering	
			Advanced Design of Steel Structures	
			Elective-II: Stability of Structures, Design of R.C.C. Bridges, Structural Reliability, Design of Folded Plates & Shells.	
			Seminar-II	
			Lab. Practice	
			Dissertation Phase-I: Synopsis Submission Seminar	
			Dissertation Phase-II: Term work	
			Dissertation Phase-II: Progress Seminar	
			Dissertation Phase III: Progress Seminar	
			Dissertation Phase-IV: Term work	
			Final submission of the dissertation and Viva voice	2014-15



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**1.1 List of courses offered across all programs**

A.Y. 2015-2016				
Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Master of Business Administration (MBA)</b>				
I-1408968337	Master of Business Administration (MBA)		Perspectives of Management	2015-16
			Accounting for Management	
			Managerial Economics	
			Organisational Behaviour	2013-14
			Statistical Methods	
			Managerial Communication-I	
			Legal Aspects of Business	
			IT for Management	
			Marketing Management	
			Financial Management	
			Human Resource Management	
			Production and Materials Management	
			Economic Environment for Business	
			Managerial Communication-II	
			Research Methodology	
			Operations Management	
			Corporate Planning and Strategic Management	
			Management Accounting	
			Business Ethics	
			Project Report & Viva-voce	
			Group A- Marketing Management:-Product and brand Management, Sales and Strategic Marketing; Group B- Financial Management:- Indian Financial System, Strategic Financial Management; Group C Human Resource Management:-strategic Human Resource Management, Training and development	
			Group F – Agriculture & Co-operative Management -Fundamentals of Agriculture and Cooperative Movement, Agricultural Marketing, Group G – International Business -International Business , International Environment, International Trade and Procedure	
			Entrepreneurship Development and Project Management	
			Excellence in Management	
			Group A- Marketing Management:-Integrated Marketing Communications and Consumer Behaviour .Retail and Rural Marketing , International Marketing Group B- Financial Management:- Project Planning And Working Capital Management , Investment Management, International Finance; Group C Human Resource Management:-Industrial Relations and Labour Regulations, Performance Management & Compensation, Global Human Resource Management	
			Group D – System Management-Relational Database Management System, Security and control Information system, Programming Concepts & Advanced Excel; Group E -Production & Materials Management-Industrial Engineering, Quality Management, World Class Manufacturing; Group F – Agriculture & Co-operative Management- Agricultural Production Management, Agro Processing Industries and Rural Industrialisation, International Trade and Agriculture, Group G – International Business- International Marketing, International Financial System and Markets, International Logistics	



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A.Y. 2016-2017

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>General Science and Engineering</b>				
I-1408968339	Mechanical Engineering	C011	Engineering Physics	
I-1408968327		C012	Engineering Chemistry	
I-1408968324	Computer Science & Engineering	C112	Engineering Mathematics I	
I-1408968331	Electronics & Tele-communication Engineering	C113	Applied Mechanics	
	Civil Engineering	C114	Basic Electrical Engineering	
		C115	Basic Mechanical Engineering	
		C116	Communication Skills	
		C117	Workshop Practice	
		C122	Engineering Mathematics II	
		C123	Engineering Graphics	
		C124	Basic Civil Engineering	
		C125	Computer Programming	
		C126	Basic Electronics	
		C127	Professional Communication	
		C128	Audit Course- Workshop for Skill Development	
<b>Mechanical Engineering</b>				
I-1408968339	Mechanical Engineering		Analysis of Mechanical Elements	
			Applied Thermodynamics	
			Engineering Mathematics-III	
			Machine Tools and Processes	
			Machine Drawing	
			Computer Programming in C++	
			Workshop Practice-II	
			Theory of Machine-I	
			Manufacturing Process	
			Fluid Mechanics	
			Numerical Methods	
			Electrical and Electronics Technology	
			Computer Aided Machine Drawing	
			Workshop Practice-III	
			Environmental Science	
			Theory of Machine-II	
			Heat and Mass Transfer	
			Metallurgy	
			Machine Design-I	
			Professional Elective I-1) Machine Tool Design 2) Fluid Machinery and Fluid Power 3) Material Handling System	
			Advanced Computer Programming	
			Workshop Practice-IV	
			Self Learning (HSS)-1) Economics	
			2) Intellectual Property Rights for Technology Development and Management	
			3) Introduction to Sociology	
			4) Stress and Coping	
			5) Professional Ethics & Human Values	
			Metrology and Mechanical Measurements	
			Internal Combustion Engine	
			CAD/CAM	
			Machine Design-II	
			Professional Elective II-1) Experimental Stress Analysis 2) Power Plant and Energy Engineering 3) Tool Engineering 4) Mechanical Vibrations	
			Advanced Computing Techniques	
			Workshop Practice-V	
			Self Learning (Technical)	



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## 1.1 List of courses offered across all programs

A.Y. 2016-2017

Program Code	Program Name	Course Code	Course Name	Year of introduction
I-1408968339	Mechanical Engineering		Automatic Control Engineering	2015-16
			Operations Research	
			Refrigeration and Air Conditioning	
			Professional Elective III- 1) Finite Element Methods 2) Automobile Engineering 3) Process Engineering	
			Free Elective I- 1) Industrial Robotics 2) Sugar Engineering 3) Textile Engineering 4) Entrepreneurship Development	
			Industrial Training	
			Project Work- I	
			Industrial and Quality Management	
			Industrial Engineering	
			Professional Elective IV- 1) Mechatronics 2) Computational Fluid Dynamics 3) Production and Operation Management	
			Free Elective II- 1) Software Engineering & cyber security 2) Agro Machine Engineering 3) Plastic Engineering 4) Economics for Engineer	
			Project Work- II	
			General Proficiency	



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**1.1 List of courses offered across all programs**

A.Y. 2016-2017

Program Code	Program Name	Course Code	Course Name	Year of introduction
Computer Science and Engineering				
I-1408968327	Computer Science & Engineering		Applied Mathematics-I	2015-16
			Discrete Mathematical Structures	
			Advanced C concepts	
			Digital Techniques	
			Computer Graphics	
			Lab - Visual Basic	
			Environmental Studies	
			Applied Mathematics – II	
			Theory of Computation	
			Microprocessors	
			Data Communication	
			Data Structures	
			Lab - Object Oriented Design & Programming through C++	
			Operating System Concepts	
			System Programming	
			Computer Networks	
			Design and Analysis of Algorithm	2016-17
			Computer Organization	
			Lab-Java Programming	
			Self Learning (HSS)	
			Compiler Construction	
			Unix Operating System	
			Mobile Computing	
			Database Engineering	
			Software Engineering	
			Lab- Programming in C#. net	
			Mini Project	
			Self Learning (HSS/ Technical)	
			Advanced Computer Architecture	
			Distributed Systems	
			Modern Database Systems	
			Elective – I:1. Human Computer Interaction 2.Digital Signal Processing 3.Software Testing & Quality Assurance 4.Business Intelligence	2015-16
			Elective – II 1.Object Oriented Modeling & Design 2.Wireless Ad hoc Networks 3. Intelligent Systems 4.Mobile Application Development	
			Vocational Training	
			Lab I - Project Phase I	
			Lab-II - Python	
			Management Information System	
			Information & Cyber Security	
			Elective -III 1.Data Warehousing & Mining 2.Image Processing 3.Information Retrieval 4.Cloud Computing	
			Elective -IV 1.Storage Area Network 2.Web 2.0 & Rich Internet Application 3.Artificial Neural Network 4.Big Data Analytics	
			Lab I - Web Technology	
			Lab II - Project Phase II	
			Lab-III -Open Source Technology	



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**1.1 List of courses offered across all programs**

A.Y. 2016-2017

Program Code	Program Name	Course Code	Course Name	Year of introduction
Electronics and Tele-Communication Engineering				
I-1408968324	Electronics & Tele-communication Engineering		Engineering Mathematics-III	2015-16
			Electronics Circuit Analysis and Design-I	
			Circuits and Networks	
			Digital Techniques	
			Data Structures	
			Electronic Workshop Lab	
			Electronics Circuit Analysis and Design-II	
			Analogue Communication	
			Control System	
			Linear Integrated Circuit	
			Signals and Systems	
			Electronic Software Lab-I	
			Environmental Studies	
			Electromagnetic Engineering and Radiation System	
			Principles of Digital Communication	
			Software Engineering and Project Management System	
			Digital Signal Processing	
			Microprocessor	2016-17
			Self Learning-HSS	
			Electronic Software Lab-II	
			Radar and Microwave Engineering	
			Microcontroller and Application	
			Electronics Applications and System Design	
			Optical Communication	
			Mobile Communication	
			Self Learning	
			Mini Project (Hardware)	
			Computer Communication Network	
			VLSI Design	
			Satellite Communicator	
			Code Theory	
			Elective I-Image Processing	2015-16
			Vocational Training	
			Seminar and Project	
			Broadband Communication	
			Multimedia Communication Techniques	
			Embedded Systems	
			Elective II-Wireless Sensor Network	
			Project	



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## 1.1 List of courses offered across all programs

A.Y. 2016-2017

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Civil Engineering</b>				
I-1408968331	Civil Engineering		Concrete Technology	
			Structural Mechanics-I	
			Surveying-I	
			Building Construction And Drawing	
			Fluid Mechanics-I	
			Engineering Geology	
			Lab Practice	
			Structural Mechanics-II	2015-16
			Surveying-II	
			Building Construction And Design	
			Fluid Mechanics-II	
			Water Resources Engg-I	
			Engg Mathematics-III	
			Computer Programming And Numerical Methods	
			Environmental Science	
			Design of Steel Structures	
			Geotechnical Engg I	
			Building Planning & Design	
			Environmental Engg I	
			Engineering Management- I	
			Transportation Engg -I	
			Self Learning (H.S.S. course)	
			Structural Mechanics-III	2016-17
			Geotechnical Engg II	
			Environmental Engg. II	
			Engineering Management- II	
			Transportation Engg -II	
			Self Learning (Technical course)	
			Steel Structural Design & Drawing	
			Mini project (Any subject in Civil Engg.)	
			Assessment of Field Training Report	
			Design of Concrete Structures-I	
			Quantitative Surveying & Valuation	
			Earthquake Engg	
			Water Resources Engg. II	
			Elective - I: Open Channel & River Hydraulics, Air Pollution & control, Design of Foundations, Advanced Design of Concrete Structures, Managerial Techniques, Computer Applications in Civil Engg, Advanced structures, Entrepreneurship, Remote Sensing and GIS Applications	
			Seminar	
			Project work	
			Assessment of report on field training-II	
			Design of Concrete Structures-II	
			Construction Practices and Town Planning	2015-16
			Elective - II: Advanced Engg. Geology, Ground improvement Techniques, Traffic Engg & Control, Infrastructural Engineering, Project Appraisal, Solid and Hazardous & Waste Management, Dynamics of Structures, Environmental Management, Design of Bridges	
			Elective - III: Advanced Design of Steel Structures, Industrial Waste Treatment, Water Power Engg, Advanced Concrete Technology, Reliability Engg., Finite Element Method, Experimental Stress Analysis, Optimization Techniques, Disaster Management	
			R. C. C. Structural Design & Drawing-II	
			Project work	



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Date:-

## 1.1 List of courses offered across all programs

A.Y. 2016-2017				
Program Code	Program Name	Course Code	Course Name	Year of introduction
Mechanical-Design Engineering (PG)				
I-1408968333	Mechanical- Design Engineering (PG)		Computational Techniques in Design Engineering	2015-16
			Machine Dynamics	
			Solid Mechanics	
			Design of Experiments And Research Methodology	
			Elective -I-	
			Seminar 1	
			Advanced Design Engineering	
			Finite Element Analysis	
			Experimental Stress Analysis	
			Industrial Product Design	
			Elective-II-1) Industrial Tribology	2016-17
			Seminar II	
			Mini Project	
			Lab Practice	
			Dissertation Phase I Synopsis Submission Seminar	
			Dissertation Phase II. Term work	
			Dissertation Phase II Progress Seminar presentation	
			Dissertation Phase III Progress Seminar Presentation & Report	
			Dissertation Phase IV Term work	
			Final Presentation & Viva-voce	
Computer Science and Engineering (PG)				
I-1408968341	Computer Science & Engineering (PG)		Theory of Computation	2015-16
			Advanced Operating Systems	
			Analysis of Algorithms	
			Research Methodology	
			Elective-I Data Mining, Mobile Computing, Artificial Neural Network and Generic Algorithm, Enterprise Software Development	
			Seminar-I	
			Internet Routing Algorithm	
			Advanced Database Concepts	
			Elective-II Grid Computing, Real Time Operating System, Natural Language Processing, Infrastructure Management	
			Elective-III Web Technology, Business Intelligent System, Object oriented Software Engineering and Design Patterns	
			Seminar-II	2016-17
			Self Learning Big Data, Open Source Technologies, Computer Network Administration	
			Lab Practice	
			Dissertation Phase-I Synopsis Submission Seminar	
			Dissertation Phase-II Termwork	
			Dissertation Phase-II Progress Seminar Presentation	
			Dissertation Phase-III Progress Seminar Presentation and report	
			Dissertation Phase-IV Termwork	
			Final Presentation and viva-voce	



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**1.1 List of courses offered across all programs**

A.Y. 2016-2017

Program Code	Program Name	Course Code	Course Name	Year of introduction
Electronics and Tele-Communication Engineering (PG)				
I-1408968335	Electronics & Tele-communication Engineering (PG)		Research Methodology	2015-16
			Antenna Theory and Design	
			Probability and Stochastic processes	
			Advanced Network Systems	
			Elective I- 1. Optical Networks 2. Speech & Video Processing 3. Advanced VLSI Design	
			Seminar- I	
			RF and Microwave Circuit Design	
			Advanced Signal Processing	
			Wireless Communication	
			Cryptography and Network Security	
			Elective II- 1. Wireless Sensor Network & Optimization. 2. Wavelet Transform & Applications. 3. Advanced Embedded Systems.	
			Seminar- II	2016-17
			Self Learning 1. Internet of Things 2. Software Defined and Cognitive Radio 3. Modeling & Simulation of Communication System	
			Lab Practice	
			Dissertation Phase-I Synopsis Submission Seminar	
			Dissertation Phase-II Term work	
			Dissertation Phase-II Progress Seminar	
			Dissertation Phase-III Progress Seminar	
			Dissertation Phase-IV Term Work	
			Final submission of Dissertation and Viva-voce	
			Civil-Structural Engineering (PG)	
I-1408968343	Civil -Structural Engineering (PG)		Theory of Elasticity & Plasticity	2015-16
			Mechanics of structures	
			Advanced Design of Concrete Structures	
			Dynamics of Structures	
			Elective-I: Design of Foundations, Advances in Concrete Composites.	
			Seminar-I	
			Theory of Plates & Shells	
			Finite Element Method	
			Earthquake Engineering	
			Advanced Design of Steel Structures	2016-17
			Elective-II: Stability of Structures, Design of R.C.C. Bridges, Structural	
			Seminar-II	
			Lab Practice	
			Dissertation Phase-I: Synopsis Submission Seminar	
			Dissertation Phase-II: Term work	
			Dissertation Phase-II: Progress Seminar presentation	
			Dissertation Phase-III: Progress Seminar presentation and Report	
			Dissertation Phase-IV: Term work	
			Final submission of the dissertation and Viva voice	



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## 1.1 List of courses offered across all programs

A.Y. 2016-2017

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Master of Business Administration (MBA)</b>				
I-1408968337	Master of Business Administration (MBA)		Perspectives of Management	2015-16
			Accounting for Management	
			Managerial Economics	
			Organisational Behaviour	
			Statistical Methods	
			Managerial Communication-I	
			Legal Aspects of Business	
			IT for Management	
			Marketing Management	
			Financial Management	
			Human Resource Management	
			Production and Materials Management	
			Economic Environment for Business	
			Managerial Communication-II	
			Research Methodology	
			Operations Management	
			Corporate Planning & Strategic Mgt	
			Management Accounting	
			Business Ethics	
			Project Report & Viva	
			Group A- Marketing Management:-Product and brand Management, Sales and Strategic Marketing, Group B- Financial Management:- Indian Financial System,Strategic Financial Management, Group C Human Resource Management:-strategic Human Resource Management, Training and development	
			Group D – System Management:-Management Information System,ERP and SPD, Group E -Production & Materials Management:- Purchasing And Inventory Management,Logistics And Supply Chain Management Group F – Agriculture & Co-operative Management -Fundamentals of Agriculture and Cooperative Movement, Agricultural Marketing, Group G – International Business:-International Business , International Environment, International Trade and Procedure	2016-17
			Entrepreneurship Development and Project Management	
			Excellence in Management	
			Group A- Marketing Management:-Integrated Marketing Communications and Consumer Behaviour ,Retail and Rural Marketing , International Marketing Group B- Financial Management:- Project Planning And Working Capital Management , Investment Management,International Finance; Group C Human Resource Management -Industrial Relations and Labour Regulations,Performance Management & Compensation,Global Human Resource Management	
			Group D – System Management -Relational Database Management System,Security and control Information system,Programming Concepts & Advanced Excel, Group E -Production & Materials Management- Industrial Engineering, Quality Management,World Class Manufacturing, Group F – Agriculture & Co-operative Management:- Agricultural Production Management, Agro Processing Industries and Rural Industrialisation,International Trade and Agriculture, Group G – International Business:- International Marketing,International Financial System and Markets,International Logistics	



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Date:-

## 1.1 List of courses offered across all programs

A.Y. 2017-2018

Program Code	Program Name	Course Code	Course Name	Year of introduction
General Science and Engineering				
1-1408968339	Mechanical Engineering Computer Science & Engineering Electronics & Tele-communication Engineering Civil Engineering	C011	Engineering Physics	2016-17
1-1408968327		C012	Engineering Chemistry	
1-1408968324		C112	Engineering Mathematics I	
1-1408968331		C113	Applied Mechanics	
		C114	Basic Electrical Engineering	
		C115	Basic Mechanical Engineering	
		C116	Communication Skills	
		C117	Workshop Practice	
		C122	Engineering Mathematics II	
		C123	Engineering Graphics	
		C124	Basic Civil Engineering	
		C125	Computer Programming	
		C126	Basic Electronics	
		C127	Professional Communication	
		C128	Audit Course- Workshop for Skill Development	
Mechanical Engineering				
1-1408968339	Mechanical Engineering	ME211	Analysis of Mechanical Elements	2017-18
		ME212	Applied Thermodynamics	
		ME213	Engineering Mathematics -III	
		ME214	Manufacturing Processes	
		ME215	Machine Drawing	
		ME216	Professional Elective-I A. Computer Programming in C ++ B. Dot Net C. General Proficiency.	
		ME217	Workshop Practices -II	
		ME221	Theory of Machine-I	
		ME222	Machine Tools & Processes	
		ME223	Fluid Mechanics	
		ME224	Electrical Technology and Electronics	
		ME225	Professional Elective-II A. Computational Techniques & Numerical Methods B. Simulation Techniques	
		ME226	Computer Aided Machine Drawing	
		ME227	Workshop Practices -III	
		MEV22	Environmental Sciences	



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**1.1 List of courses offered across all programs**

A.Y. 2017-2018				
Program Code	Program Name	Course Code	Course Name	Year of introduction
1-1408968339	Mechanical Engineering		Theory of Machine-II	2016-17
			Heat and Mass Transfer	
			Metallurgy	
			Machine Design-I	
			Professional Elective I-1) Machine Tool Design 2) Fluid Machinery and Fluid Power 3) Material Handling System	
			Advanced Computer Programming	
			Workshop Practice-IV	
			Self Learning (HSS)-1) Economics 2) Intellectual Property Rights for Technology Development and Management 3) Introduction to Sociology 4) Stress and Coping 5) Professional Ethics & Human Values	
			Metrology and Mechanical Measurements	
			Internal Combustion Engine	
			CAD/CAM	
			Machine Design-II	
			Professional Elective II-1) Experimental Stress Analysis 2) Power Plant and Energy Engineering 3) Tool Engineering 4) Mechanical Vibrations	
			Advanced Computing Techniques	
			Workshop Practice-V	
			Self Learning (Technical)-a. Manufacturing of Composites b. Design Practices c. Joining Technology for Metals d. Steam Power Engineering	
			Automatic Control Engineering	2017-18
			Operations Research	
			Refrigeration and Air Conditioning	
			Professional Elective-III A. Finite Element Methods B. Automobile Engineering C. Process Engineering	
			Free Elective -I A. Industrial Robotics B. Sugar Engineering C. Textile Engineering D. Entrepreneurship Development	
			Industrial Training	
			Project Work- I	
			Industrial and Quality Management	
			Industrial Engineering	
			Professional Elective-IV A. Mechatronics B. Computational Fluid Dynamics C. Production and Operation Management	
			Free Elective -II A. Software Engineering & cyber security B. Agro Machine Engineering C. Plastic Engineering D. Economics for Engineers	
			Project Work - II	
			General Proficiency	



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**1.1 List of courses offered across all programs**

A.Y. 2017-2018				
Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Computer Science and Engineering</b>				
I-1408968327	Computer Science & Engineering	CS 211	Applied Mathematics - I	2017-18
		CS 212	Discrete Mathematical Structures	
		CS 213	Data Communication	
		CS 214	Digital Techniques	
		CS 215	Computer Graphics	
		CS 216	Advanced C Concepts	
		CS 221	Applied Mathematics - II	
		CS 222	Theory of Computation	
		CS 223	Microprocessors	
		CS 224	Data Structures	
		CS 225	Computer Networks	
		CS 226	Object Oriented Programming through C++	
		ENV22	Environmental Studies	
			Operating System Concepts	
			System Programming	
			Computer Networks	
			Design and Analysis of Algorithm	
			Computer Organization	
			Lab-Java Programming	
			Self Learning (HSS)	
			Compiler Construction	
			Unix Operating System	
			Mobile Computing	
			Database Engineering	
			Software Engineering	
			Lab- Programming in C#. net	
			Mini Project	
			Self Learning (HSS/ Technical)	
			Advanced Computer Architecture	
			Distributed Systems	
			Modern Database Systems	
			Elective - I.1. Human Computer Interaction 2 Digital Signal Processing 3 Software Testing & Quality Assurance 4. Business Intelligence	
			Elective - II 1 Object Oriented Modeling & Design 2 Wireless Ad hoc Networks 3. Intelligent Systems 4.Mobile Application Development	
	Vocational Training			
	Lab I - Project Phase I			
	Lab-II - Python			
	Management Information System			
	Information & Cyber Security			
	Elective -III 1 Data Warehousing & Mining 2 Image Processing 3.Information Retrieval 4.Cloud Computing			
	Elective -IV 1.Storage Area Network 2.Web 2.0 & Rich Internet Application 3.Artificial Neural Network 4.Big Data Analytics			
	Lab I - Web Technology			
	Lab II - Project Phase II			
	Lab-III -Open Source Technology			



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**I.1 List of courses offered across all programs**

A.Y. 2017-2018

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Electronics and Tele-Communication Engineering</b>				
I-1408968324	Electronics & Tele-communication Engineering	ET211	Engineering Mathematics-III	2017-18
		ET212	Electronics Circuit Analysis and Design-I	
		ET213	Network Theory and Analysis	
		ET214	Digital Techniques	
		ET215	Analogue Communication	
		ET216	Electronic Software Lab-I	
		ET221	Electronics Circuit Analysis and Design-II	
		ET222	Data Structures	
		ET223	Control System	
		ET224	Linear Integrated Circuit	
		ET225	Signals and Systems	
		ET226	Electronic Software Lab-II	
		ENV22	Environmental Science I	
			Electromagnetic Engineering and Radiation System	
			Principles of Digital Communication	
			Software Engineering and Project Management System	
			Digital Signal Processing	
			Microprocessor	
			Self Learning (HSS)	
			Electronic Software Lab-II	
			Radar and Microwave Engineering	
			Microcontroller and Application	
			Electronics Applications and System Design	
			Optical Communication	
			Mobile Communication	
	Self Learning			
	Mini Project (Hardware)			
ET411	Computer Communication Network	2016-17		
ET412	VLSI Design			
ET413	Satellite Communicator			
ET414	Coding Theory			
ET415	Elective I-Image Processing			
ET416	Seminar and Project			
ET417	Vocational Training			
ET421	Broadband Communication			
ET422	Multimedia Communication Techniques			
ET423	Embedded Systems			
ET424	Elective II-Wireless Sensor Network			
ET425	Project	2017-18		




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**I.1 List of courses offered across all programs**

A.Y. 2017-2018

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Civil Engineering</b>				
I-1408968331	Civil Engineering	CV211	Concrete Technology	2017-18
		CV212	Structural Mechanics-I	
		CV213	Surveying-I	
		CV214	Building Construction And Drawing	
		CV215	Fluid Mechanics-I	
		CV216	Engineering Geology	
		CV217	Lab Practice	
		CV221	Structural Mechanics-II	
		CV222	Surveying-II	
		CV223	Building Planning And Design	
		CV224	Fluid Mechanics-II	
		CV225	Water Resources Engg-I	
		CV226	Engg Mathematics-III	
		CV227	Computer Programming And Numerical Methods	
		ENV22	Environmental Studies	
			Design of Steel Structures	
			Geotechnical Engg I	
			Building Planning & Design	
			Environmental Engg I	
			Engineering Management- I	
			Transportation Engg -I	
			Self Learning (H S S course)	
			Structural Mechanics-III	
			Geotechnical Engg. II	
			Environmental Engg II	
			Engineering Management- II	
			Transportation Engg -II	
			Self Learning (Technical course)	
			Steel Structural Design & Drawing	
			Mini project (Any subject in Civil Engg.)	
			Assessment of Field Training Report	
	Design of Concrete Structures-I			
	Quantity Surveying & Valuation			
	Earthquake Engg.			
	Water Resources Engg. II			
	Elective - I: Open Channel & River Hydraulics, Air Pollution & control, Design of Foundations, Advanced Design of Concrete Structures, Managerial Techniques, Computer Applications in Civil Engg, Advanced structures, Entrepreneurship, Remote Sensing and GIS Applications			
	Seminar			
	Project work			
	Assessment of report on field training-II			
	Design of Concrete Structures-II			
	Construction Practices and Town Planning			
	Elective - II: Advanced Engg. Geology, Ground improvement Techniques, Traffic Engg & Control, Infrastructural Engineering, Project Appraisal, Solid and Hazardous & Waste Management, Dynamics of Structures, Environmental Management, Design of Bridges			
	Elective - III: Advanced Design of Steel Structures, Industrial Waste Treatment, Water Power Engg, Advanced Concret Technology, Reliability Engg., Finite Element Method, Experimental Stress Analysis, Optimization Techniques, Disaster Management			
	R. C. C. Structural Design & Drawing-II			
	Project work			



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**1.1 List of courses offered across all programs**

A.Y. 2017-2018

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Mechanical-Design Engineering (PG)</b>				
1-1408968333	Mechanical- Design Engineering (PG)		Computational Techniques in Design Engineering	2015-16
			Machine Dynamics	
			Solid Mechanics	
			Design of Experiments And Research Methodology	
			Elective -I-	
			1) Synthesis & Analysis of Mechanisms and Machines	
			2) Industrial instrumentation	
			3) Reliability Engineering	
			4) Mechanical System Design	
			Seminar I	
			Advanced Design Engineering	
			Finite Element Analysis	
			Experimental Stress Analysis	
			Industrial Product Design	
			Elective-II-1) Industrial Tribology	2016-17
			2) Engineering Fracture Mechanics	
			3) Theory and Analysis of Composite Materials	
			4) Engineering Design Optimization	
			Seminar II	
			Mini Project	
			Lab Practice	
			Dissertation Phase I Synopsis Submission Seminar	
			Dissertation Phase II Term work	
			Dissertation Phase II Progress Seminar presentation	
			Dissertation Phase III Progress Seminar Presentation & Report	
			Dissertation Phase IV Term work	
			Final Presentation & Viva-voce	
<b>Computer Science and Engineering (PG)</b>				
1-1408968341	Computer Science & Engineering (PG)		Theory of Computation	2015-16
			Advanced Operating Systems	
			Analysis of Algorithms	
			Research Methodology	
			Elective-I Data Mining, Mobile Computing, Artificial Neural Network and Generic Algorithm, Enterprise Software Development	
			Seminar-I	
			Internet Routing Algorithm	
			Advanced Database Concepts	
			Elective-II Grid Computing, Real Time Operating System, Natural Language Processing, Infrastructure management	
			Elective-III Web Technology, Business Intelligent System, Object oriented Software Engineering and Design Patterns	
			Seminar-II	2016-17
			Self Learning Big Data, Open Source Technologies, Computer Network Administration	
			Lab Practice	
			Dissertation Phase-I Synopsis Submission Seminar	
			Dissertation Phase-II Termwork	
			Dissertation Phase-II Progress Seminar Presentation	
			Dissertation Phase-III Progress Seminar Presentation and report	
			Dissertation Phase-IV Termwork	
			Final Presentation and viva-voce	



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2015-2019



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Date.: -

## 1.1 List of courses offered across all programs

A.Y. 2017-2018

Program Code	Program Name	Course Code	Course Name	Year of introduction			
<b>Electronics and Tele-Communication Engineering (PG)</b>							
I-1408968335	Electronics & Tele-communication Engineering (PG)		Research Methodology	2015-16			
			Antenna Theory and Design				
			Probability and Stochastic processes				
			Advanced Network Systems				
			Elective I- 1. Optical Networks 2. Speech & Video Processing 3. Advanced VLSI Design				
			Seminar- I				
			RF and Microwave Circuit Design				
			Advanced Signal Processing				
			Wireless Communication				
			Cryptography and Network Security				
			Elective II- 1. Wireless Sensor Network & Optimization 2. Wavelet Transform & Applications 3. Advanced Embedded Systems				
			Seminar- II				
			Self Learning 1. Internet of Things 2. Software Defined and Cognitive Radio 3. Modeling & Simulation of Communication System				
			Lab Practice				
I-1408968343	Civil -Structural Engineering (PG)		Dissertation Phase-I Synopsis Submission Seminar	2016-17			
			Dissertation Phase-II Term work				
			Dissertation Phase-II Progress Seminar				
			Dissertation Phase-III Progress Seminar				
			Dissertation Phase-IV Term Work				
			Final submission of Dissertation and Viva-voce				
		<b>Civil-Structural Engineering (PG)</b>					
			Theory of Elasticity & Plasticity				
			Mechanics of structures				
			Advanced Design of Concrete Structures				
			Dynamics of Structures				
			Elective-I: Design of Foundations, Advances in Concrete Composites, Structural Optimization				
			Seminar-I				
			Theory of Plates & Shells				
			Finite Element Method				
			Earthquake Engineering				
			Advanced Design of Steel Structures				
			Elective-II: Stability of Structures, Design of R C C Bridges, Structural Reliability, Design of Folded Plates & Shells.				
			Seminar-II				
			Lab. Practice				
			Dissertation Phase-I Synopsis Submission Seminar				
			Dissertation Phase-II Term work				
			Dissertation Phase-II Progress Seminar presentation				
			Dissertation Phase-III Progress Seminar presentation and Report				
			Dissertation Phase-IV Term work				
			Final submission of the dissertation and Viva voice				



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**1.1 List of courses offered across all programs**

A.Y. 2017-2018

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Master of Business Administration (MBA)</b>				
I-1408968337	Master of Business Administration (MBA)		Principles of Management	2017-18
			Accounting for Managers	
			Managerial Economics	
			Organisational Behaviour	
			Statistics for Management	
			Managerial Communication-I	
			Legal Aspects of Business	
			IT for Management/Taxation	
			Marketing Management	
			Financial Management	
			Human Resource Management	
			Production Management and Operation Research	
			International Business	
			Managerial Communication-II	
			Research Methodology	
			Event Management/ Banking an Insurance	
			Corporate Planning & Strategic Mgt	
			Management Accounting	
			Business Ethics	
			Project Report & Viva	
			Group A- Marketing Management -Product and brand Management, Sales and Strategic Marketing, Group B- Financial Management - Indian Financial System,Strategic Financial Management, Group C- Human Resource Management -strategic Human Resource Management, Training and development	
			Group D – System Management:-Management Information System,ERP and SPD. Group E -Production & Materials Management:- Purchasing And Inventory Management,Logistics And Supply Chain Management Group F – Agriculture & Co-operative Management -Fundamentals of Agriculture and Cooperative Movement, Agricultural Marketing; Group G – International Business: International Business , International Environment, International Trade and Procedure	2016-17
			Entrepreneurship Development and Project Management	
			Excellence in Management	
			Group A- Marketing Management:-Integrated Marketing Communications and Consumer Behaviour ,Retail and Rural Marketing , International Marketing Group B- Financial Management:- Project Planning And Working Capital Management , Investment Management,International Finance, Group C Human Resource Management -Industrial Relations and Labour Regulations,Performance Management & Compensation,Global Human Resource Management	
			Group D – System Management -Relational Database Management System,Security and control Information system,Programming Concepts & Advanced Excel; Group E -Production & Materials Management -Industrial Engineering, Quality Management,World Class Manufacturing, Group F – Agriculture & Co-operative Management:- Agricultural Production Management, Agro Processing Industries and Rural Industrialisation,International Trade and Agriculture, Group G – International Business:- International Marketing,International Financial System and Markets,International Logistics	

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I.1 List of courses offered across all programs				
A.Y. 2018-2019				
Program Code	Program Name	Course Code	Course Name	Year of introduction
General Sciences and Engineering ( Common to All Branches)				
I-1408968339 I-1408968327 I-1408968324 I-1408968331 I-3675277161	Mechanical Engineering Computer Science & Engineering Electronics & Tele-communication Engineering Civil Engineering Electrical Engineering	C011 C012 C112 C113 C114 C115 C116 C117 C118 C122 C123 C124 C125 C126 C127	Engineering Physics Engineering Chemistry Engineering Mathematics I Basic Electrical & Electronics Engineering Mechanics Basic Mechanical Engineering Communication Skills Workshop Practice Induction Program Engineering Mathematics II Engineering Graphics & Design Basic Civil Engineering Programming for Problem Professional Communication Democracy, Elections and Good	2018-19
Mechanical Engineering				
I-1408968339	Mechanical Engineering	ME211 ME212 ME213 ME214 ME215 ME216 ME217 ME221 ME222 ME223 ME224 ME225 ME226 ME227 MEV22	Analysis of Mechanical Elements Applied Thermodynamics Engineering Mathematics -III Manufacturing Processes Machine Drawing Professional Elective-I: A. Computer Programming in C ++ B. Dot Net C. General Proficiency. Workshop Practices -II Theory of Machine-I Machine Tools & Processes Fluid Mechanics Electrical Technology and Electronics Professional Elective-II: A. Computational Techniques & Numerical Methods B. Simulation Techniques Computer Aided Machine Drawing Workshop Practices -III Environmental Sciences	2017-18



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**1.1 List of courses offered across all programs**

A.Y. 2018-2019				
Program Code	Program Name	Course Code	Course Name	Year of introduction
1-1408968339	Mechanical Engineering	ME311	Theory of Machine -II	2018-19
		ME312	Metrology and Mechanical Measurement	
		ME313	Metallurgy	
		ME314	Machine Design -I	
		ME315	Professional Elective -III: Machining Tool Design, Material Handling System, Fluid Machinery & Fluid Power	
		ME316	Advanced Computer Programming -I	
		ME317	Workshop Practices -IV	
		SLH31	Self Learning Course I -HSS	
		ME321	Heat and Mass Transfer	
		ME322	Internal Combustion Engine	
		ME323	CAD-CAM & CAE	
		ME324	Machine Design -II	
		ME325	Professional Elective - IV: A. Experimental Stress Analysis B. Mechanical Vibration C. Tool Engineering	
		ME326	Self Learning Course II -Technical	
		ME327	Advanced Computing Techniques -II	
		ME328	Workshop Practice -V	
			Automatic Control Engineering	2017-18
			Operations Research	
			Refrigeration and Air Conditioning	
			Professional Elective-III: A. Finite Element Methods B. Automobile Engineering C. Process Engineering	
			Free Elective -I: A. Industrial Robotics B. Sugar Engineering C. Textile Engineering D. Entrepreneurship Development	
			Industrial Training	
			Project Work - I	
			Industrial and Quality Management	
			Industrial Engineering	
			Professional Elective-IV: A. Mechatronics B. Computational Fluid Dynamics C. Production and Operation Management	
			Free Elective -II: A. Software Engineering & Cyber Security B. Agro Machine Engineering C. Plastic Engineering and Economics for Engineers	
			Project Work - II	
			General Proficiency	



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## 1.1 List of courses offered across all programs

A.Y. 2018-2019

Program Code	Program Name	Course Code	Course Name	Year of introduction
			Computer Science and Engineering	
		CS 211	Applied Mathematics - I	
		CS 212	Discrete Mathematical Structures	
		CS 213	Data Communication	
		CS 214	Digital Techniques	
		CS 215	Computer Graphics	
		CS 216	Advanced C Concepts	
		CS 221	Applied Mathematics -II	
		CS 222	Theory of Computation	
		CS 223	Microprocessors	
		CS 224	Data Structures	
		CS 225	Computer Networks	
		CS 226	Object Oriented Programming through C++	
		ENV22	Environmental Studies	
		CS311	Operating System Concepts	
		CS312	System Programming	
		CS313	Database Engineering	
		CS314	Design and Analysis of Algorithms	
		CS315	Computer Organization	
		CS316	Java Programming	
		SLI131	Self Learning : Module 1	
		CS321	Compiler Construction	
		CS322	Unix Operating System	
		CS323	Mobile Computing	
		CS324	Software Engineering	
		CS325	Mobile Application Development	
		CS 326	Programming in C# net	
		CS 327	Mini-Project	
		SLH 32	Self Learning Module 2	
			Advanced Computer Architecture	
			Distributed Systems	
			Modern Database Systems	
			Elective - I.1. Human Computer Interaction 2.Digital Signal Processing 3.Software Testing & Quality Assurance 4.Business Intelligence	
			Elective - II 1.Object Oriented Modeling & Design 2 Wireless Ad hoc Networks 3. Intelligent Systems 4.Mobile Application Development	
			Vocational Training	
			Lab I - Project Phase I	
			Lab-II - Python	
			Management Information System	
			Information & Cyber Security	
			Elective -III 1 Data Warehousing & Mining 2 Image Processing 3.Information Retrieval 4 Cloud Computing	
			Elective -IV 1.Storage Area Network 2.Web 2.0 & Rich Internet Application 3.Artificial Neural Network 4.Big Data Analytics	
			Lab I - Web Technology	
			Lab II - Project Phase II	
			Lab-III -Open Source Technology	



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**1.1 List of courses offered across all programs**

A.Y. 2018-2019				
Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Electronics and Tele-Communication Engineering</b>				
I-1408968324	Electronics & Tele-communication Engineering	ET211	Engineering Mathematics-III	2017-18
		ET212	Electronics Circuit Analysis and Design-I	
		ET213	Network Theory and Analysis	
		ET214	Digital Techniques	
		ET215	Analogue Communication	
		ET216	Electronic Software Lab-I	
		ET221	Electronics Circuit Analysis and Design-II	
		ET222	Data Structures	
		ET223	Control System	
		ET224	Linear Integrated Circuit	
		ET225	Signals and Systems	
		ET226	Electronic Software Lab-II	
		ENV22	Environmental Science I	
		ET311	Electromagnetic Engineering and Radiation System	
		ET312	Principles of Digital Communication	
		ET313	Software Engineering and Project Management System	
		ET314	Digital Signal Processing	
		ET415	Microcontroller-I	2018-19
		SLH31	Self Learning Course-I (HSS)	
		ET316	Electronic Software Lab-III	
		ET321	Radar and Microwave Engineering	
		ET322	Microcontroller II (PIC)	
		ET323	Electronics Applications and System Design	
		ET324	Optical Communication	
		ET325	Mobile Communication	
		ET327	Self Learning Course II (Technical)	
		ET326	Mini Project (Hardware)	
		ET411	Computer Communication Network	
		ET412	VLSI Design	
		ET413	Satellite Communicator	
		ET414	Coding Theory	
		ET415	Elective I-Image Processing	
		ET416	Seminar and Project	2017-18
		ET417	Vocational Training	
		ET421	Broadband Communication	
		ET422	Multimedia Communication Techniques	
		ET423	Embedded Systems	
		ET424	Elective II-Wireless Sensor Network	
		ET425	Project	



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**1.1 List of courses offered across all programs**

A.Y. 2018-2019					
Program Code	Program Name	Course Code	Course Name	Year of introduction	
<b>Civil Engineering</b>					
1-1408968331	Civil Engineering	CV211	Concrete Technology	2017-18	
		CV212	Structural Mechanics-I		
		CV213	Surveying-I		
		CV214	Building Construction And Drawing		
		CV215	Fluid Mechanics-I		
		CV216	Engineering Geology		
		CV217	Lab. Practice		
		CV221	Structural Mechanics-II		
		CV222	Surveying-II		
		CV223	Building Planning And Design		
		CV224	Fluid Mechanics-II		
		CV225	Water Resources Engg-I		
		CV226	Engg Mathematics-III		
		CV227	Computer Programming And Numerical Methods		
		ENV22	Environmental Studies		
		CV-311	Design of Steel Structures	2018-19	
		CV-312	Geotechnical Engg I		
		CV-313	Environmental Engg I		
		CV-314	Water Resources Engg-II		
		CV-315	Transportation Engg -I		
		SLH-31	Self Learning (H S S course)		
		CV-316	Building Planning & Design using CADD		
		CV-321	Structural Mechanics-III		
		CV-322	Geotechnical Engg II		
		CV-323	Environmental Engg II		
		CV-324	Engineering Management- I		
		CV-325	Elective-I		
		CV-326	Self Learning (Technical course)		
		CV-327	Project on Steel Structures		
		CV-328	Mini Project in SM-III/GE-II/EEII/EM-I using Application Software		
		CV-329	Assessment of Field Training Report		
		Design of Concrete Structures-I			
		Quantity Surveying & Valuation			
		Earthquake Engg			
		Water Resources Engg. II			
		Elective - I: Open Channel & River Hydraulics, Air Pollution & control, Design of Foundations, Advanced Design of Concrete Structures, Managerial Techniques, Computer Applications in Civil Engg, Advanced structures, Entrepreneurship, Remote Sensing and GIS Applications			
		Seminar			
		Project work			
		Assessment of report on field training-II			
		Design of Concrete Structures-II			
		Construction Practices and Town Planning			
		Elective - II: Advanced Engg. Geology, Ground improvement Techniques, Traffic Engg. & Control, Infrastructural Engineering, Project Appraisal, Solid and Hazardous & Waste Management, Dynamics of Structures, Environmental Management, Design of Bridges			
		Elective - III: Advanced Design of Steel Structures, Industrial Waste Treatment, Water Power Engg, Advanced Concrete Technology, Reliability Engg., Finite Element Method, Experimental Stress Analysis, Optimization Techniques, Disaster Management			
		R. C. C. Structural Design & Drawing-II			
		Project work			

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I.1 List of courses offered across all programs				
A.Y. 2018-2019				
Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Mechanical-Design Engineering (PG)</b>				
I-1408968333	Mechanical- Design Engineering (PG)		Advanced Stress Analysis	2018-19
			Advanced Vibrations and Acoustics	
			Industrial Instrumentation	
			Elective- I	
			Research Methodology and IPR®	
			Advanced Vibrations and Acoustics Lab	
			Industrial Instrumentation Lab	
			Seminar -I	
			Finite Element Method	
			Advanced Design Engineering	
			Industrial Product Design	
			Elective- II 1. Theory and Analysis of Composite Materials 2. Engineering Design Optimization 3. Industrial Tribology 4. Advanced Engineering Materials	
			Elective- III 1. Engineering Fracture Mechanics 2. Project Management 3. Design for Manufacture and Assembly 4. Analysis and Synthesis of Mechanisms and Machine	
			Finite Element Method Lab	
			Product Design Lab	
	Seminar-II			
	Lab Practices			
	Open Elective 1. Business Analytics 2. Operation Research 3. Cost Management of Engineering Projects 4. Non conventional Energy			
	Dissertation Phase I : Synopsis Submission Seminar			
	Dissertation Phase II : Progress Seminar			
	Dissertation Phase -III Progress Report presentation and submission			
	Dissertation Phase -IV Final presentation and submission of report			
	Dissertation Viva voce			
<b>Computer Science and Engineering (PG)</b>				
I-1408968341	Computer Science & Engineering (PG)		Applied Algorithm	2018-19
			Theory of Computation	
			Data Mining	
			Machine Learning	
			Elective-I Natural Language Processing, Soft Computing, Computer Seminar-I	
			Research Methodology & IPR	
			Internet of Things	
			Internet Routing Algorithm	
			Elective-II Reinforcement Learning, Advanced Cloud Computing, High Performance Computing, Software Defined Network	
			Elective-III Wireless Sensor Network, Infrastructure Management, Real Time Operating System, Advances in Database System	
			Seminar-II	
			Self Learning Course- Big Data, Computer Network Administration, Open Source Technologies, Usability Engineering	
			Open Elective Course-Business Analytics, Operation Research, Cost Management of Engineering Projects, Non Conventional Energy	
			Dissertation Phase-I: Synopsis Submission Seminar	
			Dissertation Phase-II: ICA	
	Dissertation Phase-III: Progress Seminar			
	Dissertation Phase-IV: Final presentation and viva-voce			



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**1.1 List of courses offered across all programs**

A.Y. 2018-2019

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Electronics and Tele-Communication Engineering (PG)</b>				
I-1408968335	Electronics & Tele-communication Engineering (PG)		Research Methodology and IPR	2018-19
			Antenna Design and Application	
			Soft Computing methods	
			Seminar I	
			Advanced Network Systems	
			Elective I- Biomedical Signal Processing	
			Advanced Internet of Things	
			RF Circuit Design	
			Artificial Intelligence and Machine Learning	
			Cryptography and Network Security	
			Elective II-Multimedia Processing	
			Seminar II	
			Self Learning Course	
			Open Elective Course	
			Dissertation Phase-I: Synopsis Submission Seminar	
			Dissertation Phase-II: ICA	
			Dissertation Phase-II: Progress Seminar	
			Dissertation Phase-III: Progress Seminar	
			Dissertation Phase-IV	
			Final Presentation and viva-voce	
<b>Civil-Structural Engineering (PG)</b>				
I-1408968343	Civil -Structural Engineering (PG)		Advanced structural analysis	2018-19
			Advanced Solid Mechanics	
			Structural Dynamics	
			Elective-I: Advanced Design of Concrete Structures, Design of Research Methodology and IPR	
			Structural design Lab	
			FEM in structural Engineering	
			Theory of plates and shells	
			Seismic design of multistoried buildings	
			Elective-II: Design of Prestressed Concrete Structures, Structural Audits.	
			Elective-III: Theory of Structural Stability, Design of RCC Bridges.	
			Advanced concrete Lab	
			Mini project	
			Lab. Practice	
			Open Elective Course-Business Analytics, Operation Research, Cost	
			Dissertation Phase-I: Synopsis Submission Seminar	
			Dissertation Phase-II: ICA	
			Dissertation Phase-II: Progress Seminar	
			Dissertation Phase-III: Progress Seminar	
			Dissertation Phase-IV: Final presentation and submission of report	
			Dissertation Viva -Voce	



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## 1.1 List of courses offered across all programs

A.Y. 2018-2019				
Program Code	Program Name	Course Code	Course Name	Year of introduction
Master of Business Administration (MBA)				
1-1408968337	Master of Business Administration (MBA)		Principles of Management	2017-18
			Accounting for Managers	
			Managerial Economics	
			Organisational Behaviour	
			Statistics for Management	
			Managerial Communication-I	
			Legal Aspects of Business	
			IT for Management/Taxation	
			Marketing Management	
			Financial Management	
			Human Resource Management	
			Production Management and Operation Research	
			International Business	
			Managerial Communication-II	
			Research Methodology	
			Event Management/ Banking an Insurance	
			Strategic Management	
			Management Accounting	
			Skill Development	
			Project Report & Viva	
	Group A- Marketing Management-Brand Management and Social Marketing, Sales and Distribution Management. Group B- Financial Management-Indian Financial System, Financial Decision Analysis. Group B-Production and Materials Management-Purchasing And Inventory Management, Logistics And Supply Chain Management			
			Group C- Human Resource Management-Strategic Human Resource Management, Human Resource Initiatives. Group C-International Business Management-International Business Environment, Export Policy, Procedures and documents. Group C-Systems Management-Management Information System, ERP and SPD. Group C-Agriculture & Co-operative Management-Fundamentals of Agriculture & Cooperative Management, Agricultural Marketing.	
			Entrepreneurship Development	2018-19
			Quality Management	
			Group A- Marketing Management -Integrated Marketing Communications , Services and Retail and Marketing , International Marketing	
			Group B- Financial Management- Project Planning And Management of Financial Services, Investment Management, International Finance;	
			Group B - Production and Materials Management-Industrial Engineering - Quality Management ,World Class Manufacturing;	
			Group C Human Resource Management-Industrial Relations and Labour laws,HRD and Compensation Management,International Human Resource Management	
			Group C - International Business Management -International Marketing,EXIM Management ,International Logistics ,Group C - System Management-Relational Database Management System,Security and control Information system,Programming Concepts & Advanced Excel.	
			Group C - Agriculture & Co-operative Management- Agricultural Production Management, Agro Processing Industries and Rural Industrialisation,International Trade and Agriculture.	



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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](http://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 Accredited Institute, ISO 9001:2015 Certified Institute.

Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune.



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## 1.1 List of courses offered across all programs

A.Y. 2019-2020

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>General Science and Engineering</b>				
I-1408968339 I-1408968327 I-1408968324 I-1408968331 I-3675277161	Mechanical Engineering Computer Science & Engineering Electronics & Tele-communication Engineering Civil Engineering Electrical Engineering	C011 C012 C112 C113 C114 C115 C116 C117 C118 C122 C123 C124 C125 C126 C127	Engineering Physics Engineering Chemistry Engineering Mathematics I Basic Electrical & Electronics Engineering Mechanics Basic Mechanical Engineering Communication Skills Workshop Practice Induction Program Engineering Mathematics II Engineering Graphics & Design Basic Civil Engineering Programming for Problem Professional Communication Democracy, Elections and Good	2018-19
<b>Mechanical Engineering</b>				
I-1408968339	Mechanical Engineering	ME211 ME212 ME213 ME214 ME215 MEV21 ME221 ME222 ME223 ME224 ME225 ME226 ME227	Applied Thermodynamics Mechanics of Materials Manufacturing Processes Machine Drawing & CAD Professional Elective-I: A. Microprocessors in Automations B. Internal Combustion Engines C. Composite Materials Environmental Sciences Engineering Mathematics -III Manufacturing Technology Fluid Mechanics & Fluid Machines Kinematics & Theory of Machines Professional Elective-II: A. Mechatronic Systems B. Power Plant Engineering C. Solid Mechanics Mechanical Workshop-I Electrical Technology	2019-20



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**1.1 List of courses offered across all programs**

A.Y. 2019-2020

Program Code	Program Name	Course Code	Course Name	Year of introduction
1-1408958339	Mechanical Engineering	ME311	Theory of Machine -II	2018-19
		ME312	Metrology and Mechanical Measurements	
		ME313	Metallurgy	
		ME314	Machine Design -I	
		ME315	Professional Elective -III. Machine Tool Design, Material Handling System, Fluid Machinery & Fluid Power	
		ME316	Advanced Computer Programming -I	
		ME317	Workshop Practices -IV	
		SLH31	Self Learning Course I -HSS	
		ME321	Heat and Mass Transfer	
		ME322	Internal Combustion Engine	
		ME323	CAD-CAM & CAE	
		ME324	Machine Design -II	
		ME325	Professional Elective - IV: A. Experimental Stress Analysis B. Mechanical Vibration C. Tool engineering	
		ME326	Self Learning Course II-Technical	
		ME327	Advanced Computing Techniques -II	
		ME328	Workshop Practice -V	
		ME411	Automatic Control Engineering	2019-20
		ME412	Refrigeration and Air Conditioning	
		ME413	OPERATIONS RESEARCH	
		ME414	Professional Elective-V A. Finite Element Method (FEM) B. Production and Operational Management C. Automobile Engineering D. COSTING & COST CONTROL	
		ME415	Free Elective -I: A. Industrial Robotics B. Sugar Technology C. Entrepreneurship Development D. Process Equipment Design E. Railway Transportation Systems	
		ME416	Project Work -I	
		ME417	Industrial Training	
		ME421	Industrial Engineering	
		ME422	Industrial and Quality Management	
		ME423	Professional Elective VI: A. Non-Conventional Machining B. Mechatronics C. Computational Fluid Dynamics D. Process Engineering E. Power Plant and Energy Engineering	
		ME424	Free Elective-II. A. Software Engineering & Cyber Security B. Agro Machine Engineering C. Plastic Engineering D. Economics for Engineers E. Project Management F. Marketing Management G. Railway Transportation Management	
		ME425	Project Work -II	



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A.Y. 2019-2020

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Computer Science and Engineering</b>				
I-1408968327	Computer Science & Engineering	CS 211	Applied Mathematics - I	2019-20
		CS 212	Discrete Mathematical Structures	
		CS 213	Data Communication	
		CS 214	Digital Techniques	
		CS 215	Computer Graphics	
		CS 216	Advanced C Concepts	
		CS 221	Applied Mathematics -II	
		CS 222	Theory of Computation	
		CS 223	Microprocessors	
		CS 224	Data Structures	
		CS 225	Computer Networks	
		CS 226	Object Oriented Programming through C++	
		ENV22	Environmental Studies	
		CS311	Operating System Concepts	
		CS312	System Programming	
		CS313	Database Engineering	
		CS314	Design and Analysis of Algorithms	2018-19
		CS315	Computer Organization	
		CS316	Java Programming	
		SLH31	Self Learning Module 1	
		CS321	Compiler Construction	
		CS322	Unix Operating System	
		CS323	Mobile Computing	
		CS324	Software Engineering	
		CS325	Mobile Application Development	
		CS326	Programming in C# net	
		CS327	Mini-Project	
		SLH 32	Self Learning Module 2	
		CS411	Advanced Computer Architecture	
		CS412	Distributed Systems	
		CS413	Modern Database Systems	
		CS 414A to CS 414C	Elective -I : CS414A : Internet of Things. CS414B : Wireless Adhoc Networks, CS414C : Artificial Intelligence	2019-20
		CS 415A to CS 415C	Elective-II .CS415A : Business Intelligence, CS415B : Data Mining, CS415C : Object Oriented Modeling and Design	
		CS416	# Programming with Python	
		CS417	Project Phase-I	
		CS418	Vocational Training	
		CS421	Management Information System	
		CS422	Information and Cyber Security	
		CS423A to CS423C	Elective-III , CS423A : Big data Analytics CS423B : Human Computer Interaction CS423C : Artificial Neural Network	
		CS424A to CS424C	Elective-IV, CS424A : Software Testing and Quality Assurance,CS424B : Cloud Computing,CS424C : Machine Learning	
		CS425	# Web Technology	
		CS426	Project Phase-II	



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**1.1 List of courses offered across all programs**

A.Y. 2019-2020

Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Electronics and Tele-Communication Engineering</b>				
I-1408968324	Electronics & Tele-communication Engineering	ET211	Engineering Mathematics-III	2019-20
		ET212	Electronics Circuit Analysis and Design	
		ET213	Network Theory and Analysis	
		ET214	Digital Techniques	
		ET215	Analogue Communication	
		ET216	Electronics Software Lab-I	
		ENV21	Environmental Science I	
		ET221	Principles of Digital Communications	
		ET222	Data Structures	
		ET223	Control System	
		ET224	Analog Integrated Circuits	
		ET225	Signals and Systems	
		ET226	Electronics Software Lab-II	
		ET311	Electromagnetic Engineering and Radiation System	
		ET312	Principles of Digital Communication	
		ET313	Software Engineering and Project Management System	
		ET314	Digital Signal Processing	
		ET415	Microcontroller-I	2018-19
		SLH31	Self Learning Course-I (IIS)	
		ET316	Electronic Software Lab-III	
		ET321	Radar and Microwave Engineering	
		ET322	Microcontroller II (PIC)	
		ET323	Electronics Applications and System Design	
		ET324	Optical Communication	
		ET325	Mobile Communication	
		ET327	Self Learning Course II (Technical)	
		ET326	Min Project (Hardware)	
		ET411	Computer Communication Network	2019-20
		ET412	Embedded System Design	
		ET413	Satellite Communicator	
		ET414	Database Management System	
		ET415	Elective I-Image and Video Processing	
		ET416	Seminar and Project	
		ET417	Vocational Training	
		ET421	Internet of Things (IoT)	
		ET422	Multimedia Communication Techniques	
		ET423	VLSI Design	
		ET424	Elective II-Network Security	
		ET426	Seminar and Project	
		ET425	Project	



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A.Y. 2019-2020				
Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Civil Engineering</b>				
I-1408968331	Civil Engineering	CV211	Concrete Technology, Material Testing & Evaluation	2019-20
		CV212	Surveying & Geomatics	
		CV213	Building Construction & Drawing	
		CV214	Introduction to Fluid mechanics	
		CV215	Engineering Geology	
		CV216	Introduction to Solid Mechanics	
		CV217	Energy Science & Engineering	
		CV218	Lab practice	
		CV221	Water Supply Engineering	
		CV222	Building Planning & Design	
		CV223	Hydraulic Engineering	
		CV224	Open Elective-I. ICT for development	
		CV225	Structural Analysis	
		CV226	Engineering Mathematics-III	
		CV227	Computer Programming & Numerical Methods	
			Environmental Science	
		CV-311	Design of Steel Structures	
		CV-312	Geotechnical Engg I	
		CV-313	Environmental Engg I	
		CV-314	Water Resources Engg-II	
		CV-315	Transportation Engg -I	
		SLII-31	Self Learning (H S S course)	
		CV-316	Building Planning & Design using CADD	
		CV-321	Structural Mechanics-III	
		CV-322	Geotechnical Engg II	
		CV-323	Environmental Engg II	
		CV-324	Engineering Management- I	
		CV-325	Elective-I	
		CV-326	Self Learning (Technical course)	
		CV-327	Project on Steel Structures	
		CV-328	Mini Project in SM-III/GE-II/EEII/EM-I using Application Software	
CV-329	Assessment of Field Training Report			
	Design of Concrete Structures-I			
	Quantity Surveying & Valuation			
	Earthquake Engg.			
	Engineering Management-II			
	Elective - II: Open Channel & River Hydraulics, Air Pollution & control, Design of Foundations, Advanced Design of Concrete Structures, Managerial Techniques, Computer Applications in Civil Engg, Advanced structures, Entrepreneurship, Remote Sensing and GIS Applications			
	Seminar			
	Project work			
	Assessment of report on field training-II			
	Design of Concrete Structures-II			
	Construction Practices and Town Planning			
	Transportation Engg.-II			
	Elective - III: Advanced Engg, Geology, Ground improvement Techniques, Traffic Engg. & Control, Infrastructural Engineering, Project Appraisal, Solid and Hazardous & Waste Management, Dynamics of Structures, Environmental Management, Design of Bridges			
	Project on R. C. C. Structures			
	Project work			



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Program Code	Program Name	Course Code	Course Name	Year of introduction
<b>Electrical Engineering</b>				
I-3675277161	Electrical Engineering	EL211	Engineering Mathematics-III	
		EL212	Electrical Machine-I	
		EL213	Electrical Measurement & Instrumentation	
		EL214	Power System-I	
		EL215	Electronic Devices & Circuits	
		EL216	Object Oriented Programming with C++	
			Environmental Science	2019-2020
		EL221	Numerical Methods & Linear Algebra	
		EL222	Electrical Machine-II	
		EL223	Power System-II	
		EL224	Analog & Digital Integrated Circuits	
		EL225	Network Analysis	
		EL226	Computer Aided Design and Simulation	
<b>Mechanical-Design Engineering (PG)</b>				
I-1408968333	Mechanical- Design Engineering (PG)		Advanced Stress Analysis	
			Advanced Vibrations and Acoustics	
			Industrial Instrumentation	
			Elective- I	
			Research Methodology and IPRO	
			Advanced Vibrations and Acoustics Lab	
			Industrial Instrumentation Lab	
			Seminar-I	
			Finite Element Method	
			Advanced Design Engineering	
			Industrial Product Design	
			Elective- II 1. Theory and Analysis of Composite Materials 2. Engineering Design Optimization 3. Industrial Tribology 4. Advanced Engineering Materials	2018-19
			Elective- III 1. Engineering Fracture Mechanics 2. Project Management 3. Design for Manufacture and Assembly 4. Analysis and Synthesis of Mechanisms and Machine	
			Finite Element Method Lab	
			Product Design Lab	
			Seminar-II	
			Lab Practices	
			Open Elective 1. Business Analytics 2. Operation Research 3. Cost Management of Engineering Projects 4. Non conventional Energy	
			Dissertation Phase I : Synopsis Submission Seminar	
			Dissertation Phase II - Progress Seminar	
			Dissertation Phase -III Progress Report presentation and submission	
			Dissertation Phase -IV Final presentation and submission of report	
			Dissertation Viva voice	2019-20



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A.Y. 2019-2020					
Program Code	Program Name	Course Code	Course Name	Year of introduction	
<b>Computer Science and Engineering (PG)</b>					
I-1408968341	Computer Science & Engineering (PG)		Applied Algorithm	2018-19	
			Theory of Computation		
			Data Mining		
			Machine Learning		
			Elective-I: Natural Language Processing, Soft Computing, Computer Vision, Object Oriented Software Engineering		
			Seminar-I		
			Research Methodology & IPR		
			Internet of Things		
			Internet Routing Algorithm		
			Elective-II: Reinforcement Learning, Advanced Cloud Computing, High Performance Computing, Software Defined Network		
			Elective-III: Wireless Sensor Network, Infrastructure Management, Real Time Operating System, Advances in Database System		
			Seminar-II		
			Self Learning Course- Big Data, Computer Network Administration, Open Source Technologies, Usability Engineering		
			Open Elective Course-Business Analytics, Operation Research, Cost Management of Engineering Projects, Non Conventional Energy		
			Dissertation Phase-I: Synopsis Submission Seminar	2019-20	
			Dissertation Phase-II: ICA		
			Dissertation Phase-III: Progress Seminar		
			Dissertation Phase-IV		
			Final Presentation and viva-voce		
<b>Electronics and Tele-Communication Engineering (PG)</b>					
I-1408968335	Electronics & Tele-communication Engineering (PG)		Research Methodology and IPR	2018-19	
			Antenna Design and Application		
			Soft Computing Methods		
			Advanced Network Systems		
			Elective I- Biomedical Signal Processing		
			Seminar I		
			Advanced Internet of Things		
			RF Circuit Design		
			Artificial Intelligence and Machine Learning		
			Cryptography and Network Security		
			Elective II-Multimedia Processing		
			Seminar II		
			Self Learning Course	2019-20	
			Open Elective Course		
			Dissertation Phase-I: Synopsis Submission Seminar		
			Dissertation Phase-II: ICA		
			Dissertation Phase-III: Progress Seminar		
			Dissertation Phase-IV		
			Final Presentation and viva-voce		



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A.Y. 2019-2020				
Program Code	Program Name	Course Code	Course Name	Year of introduction
1-1408968343	Civil -Structural Engineering (PG)	Civil-Structural Engineering (PG)	Civil-Structural Engineering (PG)	
			Advanced structural analysis	
			Advanced Solid Mechanics	
		Elective-I: Advanced Design of Concrete Structures, Design of Formwork, Advanced Design of Foundation, Structural Optimization	Structural Dynamics	
			Elective-I: Advanced Design of Concrete Structures, Design of Formwork, Advanced Design of Foundation, Structural Optimization	
			Research Methodology and IPR	
			Structural design Lab	
			FEM in structural Engineering	
			Theory of plates and shells	
			Seismic design of multistoried buildings	
				2018-19
			Elective-II: Design of Prestressed Concrete Structures, Structural Audits, Concrete Composites, Design of Industrial Structures	
			Elective-III: Theory of Structural Stability, Design of RCC Bridges, Advanced Steel Design, Soil Structure Interaction.	
			Advanced concrete Lab	
			Mini project	
			Lab Practice	
			Open Elective Course-Business Analytics, Operation Research, Cost	
			Dissertation Phase-I: Synopsis Submission Seminar	
			Dissertation Phase-II: ICA	
			Dissertation Phase-III: Progress Seminar	
			Dissertation Phase-IV: Final presentation and submission of report	
			Dissertation Viva –Voce	2019-20



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**1.1 List of courses offered across all programs**

A.Y. 2019-2020					
Program Code	Program Name	Course Code	Course Name	Year of introduction	
<b>Master of Business Administration (MBA)</b>					
I-1408968337	Master of Business Administration (MBA)		Principles of Management	2017-18	
			Accounting for Managers		
			Managerial Economics		
			Organisational Behaviour		
	Statistics for Management				
	Managerial Communication-I				
	Legal Aspects of Business				
	IT for Management/Taxation				
	Marketing Management				
	Financial Management				
	Human Resource Management				
	Production Management and Operation Research				
	International Business				
	Managerial Communication-II				
	Research Methodology				
	Event Management/ Banking an Insurance				
	Strategic Management				
	Management Accounting				
	Skill Development				
	Project Report & Viva				
		Group A- Marketing Management-Brand Management and Social Marketing, Sales and Distribution Management Group B- Financial Management-Indian Financial System, Financial Decision Analysis Group B -Production and Materials Management-Purchasing And Inventory Management, Logistics And Supply Chain Management			
			Group C - Human Resource Management-Strategic Human Resource Management , Human Resource Initiatives Group C -International Business Management-International Business Environment, Export Policy, Procedures and documents Group C-Systems Management-Management Information System, ERP and SPD Group C-Agriculture & Co-operative Management-Fundamentals of Agriculture & Cooperative Management, Agricultural Marketing		
			Entrepreneurship Development	2018-19	
			Quality Management		
			Group A- Marketing Management -Integrated Marketing Communications , Services and Retail and Marketing , International Marketing Group B- Financial Management - Project Planning And Management of Financial Services, Investment Management, International Finance, Group B - Group B – Production and Materials Management-Industrial Engineering, - Quality Management ,World Class Manufacturing; Group C Human Resource Management-Industrial Relations and Labour laws,HRD and Compensation Management ,International Human Resource Management		
			Group C – International Business Management :-International Marketing,EXIM Management,International Logistics ,Group C – System Management-Relational Database Management System,Security and control Information system,Programming Concepts & Advanced Excel, Group C – Agriculture & Co-operative Management - Agricultural Production Management, Agro Processing Industries and Rural Industrialisation,International Trade and Agriculture,		



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