



K.E. Society's
Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Proposed Curriculum Structure and Evaluation Scheme
To be implemented from 2018-19

Rev: (Mech. Engg.) Course Structure/RIT/02/2018-19

Department: Mechanical Engineering
Class: S. Y. B. Tech

Semester: III

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min. for passing	Max.	Min.	for passing
ME2012	Material Science & Metallurgy	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
ME2032	Engineering Thermodynamics	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
CE2032	Engineering Mechanics	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
ME2072	Fluid Mechanics and Fluid Machines	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
ME2092	Manufacturing Processes and Machine Tools	3	-	-	3	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
ME2112	Electrical Technology	2	-	-	2	ISE	20	40	40	----	----
						UT1	15			----	----
						UT2	15			----	----
						ESE	50			40	----
SH2172	Environmental Science	1*	-	-	1	ISE	50	40	----	----	
						ESE	50	40	----	----	
CE2172	Engineering Mechanics Lab	-	-	2	1	ISE	----	----	100	50	
ME2532	Thermal Engineering Lab-I	-	-	2	1	ISE	----	----	50	50	
						ESE	----	----	50	50	
ME2552	Material Science & Metallurgy Lab	-	-	2	1	ISE	----	----	100	50	
ME2572	Workshop Practice -I	-	-	2	1	ISE	----	----	100	50	
ME2592	Comprehensive Exam-I	-	-	-	1	ESE	100	50	----	----	
SH2612	Environmental Project	-	-	2	1	ISE	---	----	100	50	
	Open Elective- II Choice Based Soft Skill Program-I	-	-	2	1	ISE	-	-	50	50	
						ESE	-	-	50	50	
TOTAL		19	-	12	24						

Total Contact Hours/week : 31

Total Credits : 24

Note*: One extra lecture to be allotted to Environment Science in time Table.

Comprehension Exam Courses : Material Science, Engineering Thermodynamics, Engineering Mechanics, Fluid Mechanics and Fluid Machines, Manufacturing Processes and Machine Tools ISE = In Semester Exam, MSE (UT1+UT2) UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam





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Rev: (Mech. Engg.) Course Structure/RIT/02/2018-19

Sr. No.	Subject Name		Course Code
1.	Choice Based Soft Skill Program-I & II	Personal Effectiveness & Body Language	SH2592
2.		Interpersonal Skills (Work life Balance)	SH2612
3.		Leadership & Public Speaking	SH2632
4.		Innovation Tools and Methods for Entrepreneurs	SH2692
5.		German Language – Basic Level	SH2732
6.		Japanese Language – Basic Level	SH2712

Note:

1. A student has to complete any two courses out of six choices offered under Choice Based Soft Skills Programme. A course in each semester will be allocated without any repetition.
2. The students who have completed 'German Language Lab' or 'Japanese Language Lab' in F.Y. B. Tech should not give their choice for 'German Language – Basic Level' and 'Japanese Language – Basic Level'. Such students may give their choices for 'German Language – Advanced Level' and 'Japanese Language – Advanced Level' (batch sizes 40 each) in the S.Y. B. Tech Sem-IV only.
3. The students who will select and will successfully complete 'German Language – Basic Level' and 'Japanese Language – Basic Level' in S.Y. B. Tech Sem-III will by default (mandatorily) appear for Advance Levels of said courses in Semester-IV.





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Rev: (Mech. Engg.) Course Structure/RIT/02/2018-19

Department: Mechanical Engineering

Class: S. Y. B. Tech

Semester: IV

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min. for passing	Max	Min. for passing	
SH2062	Engineering Mathematics –III	3	1	-	4	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
ME2022	Strength of Material	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
ME2042	Applied Thermodynamics	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
ME2062	Manufacturing Engineering	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
ME2082	Kinematics of Machines	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
ME2102	Computer Programming C++	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
ME2522	Machine Drawing Lab	-	-	2	1	ISE	---	---	---	50	50
						ESE	---	---	---	50	50
ME2542	Kinematics of Machines Lab	-	-	2	1	ISE	---	---	---	100	50
ME2562	Computer Programming C++ Lab	-	-	2	1	ISE	---	---	---	50	50
						ESE	---	---	---	50	50
ME2582	Workshop Practice – II	-	-	2	1	ISE	---	---	---	50	50
						ESE	---	---	---	50	50
ME2602	Comprehensive Exam-II	-	-	-	1	ESE	100	---	---	---	---
	Open Elective- III Choice Based Soft Skill Program-II	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
TOTAL		17	1	10	24						

Total Contact Hours/week : 28

Total Credits : 24

Comprehension Exam Courses : Strength of Material, Applied Thermodynamics, Engineering Mathematics –III, Manufacturing Engineering, Kinematics of Machines

ISE = In Semester Exam, MSE (UT1+UT2) UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam

Note: Students are required to undergo industrial / field training of minimum four weeks in the vacation of Semester-IV and its evaluation will be carried out in the Semester-V





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Sr. No.		Subject Name	Course Code
1.	Choice Based Soft Skill Program-I & II	Personal Effectiveness & Body Language	SH2592
2.		Interpersonal Skills (Work life Balance)	SH2612
3.		Leadership & Public Speaking	SH2632
4.		Innovation Tools and Methods for Entrepreneurs	SH2692
5.		German Language – Advanced Level	SH2642
6.		Japanese Language – Advanced Level	SH2622

Note:

1. A student has to complete any two courses out of six choices offered under Choice Based Soft Skills Programme. A course in each semester will be allocated without any repetition.
2. The students who have completed 'German Language Lab' or 'Japanese Language Lab' in F.Y. B.Tech should not give their choice for 'German Language – Basic Level' and 'Japanese Language – Basic Level'. Such students may give their choices for 'German Language – Advanced Level' and 'Japanese Language – Advanced Level' (batch sizes 40 each) in the S.Y. B. Tech. Sem-IV only.
3. The students who will select and will successfully complete 'German Language – Basic Level' and 'Japanese Language – Basic Level' in S.Y. B.Tech Sem-III will by default (mandatorily) appear for Advance Levels of said courses in Semester-IV.





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Department: Mechanical Engineering

Class: T. Y. B. Tech

Semester: V

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min. for Passing	Max	Min. for passing	
ME3012	Dynamics of Machines	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
ME3032	Design of Machine Elements	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
ME3052	Metrology & Control Engineering	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
ME3072	Heat Transfer	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
	Program Elective-I	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
ME3512	Workshop Practice – III	-	-	2	1	ISE	---	---	---	50	50
						ESE	---	---	---	50	50
ME3532	Dynamics of Machinery Lab	-	-	2	1	ISE	---	---	---	50	50
						ESE	---	---	---	50	50
ME3552	Metrology & Measurement Lab	-	-	2	1	ISE	---	---	---	100	50
ME3572	Thermal Engineering Lab-II	-	-	2	1	ISE	---	---	---	100	50
ME3592	CAD-Modelling	-	-	2	1	ISE	---	---	---	100	50
ME3612	Comprehensive Exam-III	-	-	-	1	ESE	100	40	---	---	---
SH3032	Aptitude Training I	2*	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
ME3632	Summer Internship (4 Weeks)	-	-	-	2	ISE	---	---	---	100	50
SH3012	Mandatory Course (Indian Constitution/Essence of Indian Traditional Knowledge)	2	-	-	Audit	ISE	100	50	(P/N)		
TOTAL		18	-	12	25						

Total Contact Hours/week : 30

Total Credits : 25

Note*: One extra lecture to be allotted to Aptitude Training-I in time Table.

Comprehension Exam Courses : Dynamics of Machines, Design of Machine Elements, Heat Transfer
 ISE = In Semester Exam, MSE (UT1+UT2) UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam





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Program Elective-I

Sr.No	Course Code	Domain	Course
1.	ME3312	Design	Mechanics of Composite Material
2.	ME3332		Textile Engineering
3.	ME3352	Thermal	Energy Conversion and Management
4.	ME3372		Nuclear Power Engineering
5.	ME3392	Manufacturing	World Class Manufacturing
6.	ME3412		Non Traditional Machining Processes
7.	ME3432		Advanced Casting & Joining Processes
8.	ME3452		Industrial Organization and Management





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Department: Mechanical Engineering

Class: T. Y. B. Tech

Semester: VI

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min. for passing	Max	Min. for passing	
ME3022	Machine Design	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
ME3042	Engines and Refrigeration	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
	Program Elective-II	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
SH3022	Biology for Engineers	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
ME3522	Thermal Engineering Lab-III	-	-	2	1	ISE	---	---	50	50	
ME3542	Software Training-I	-	-	2	1	ISE	---	---	100	50	
ME3562	Comprehensive Exam-IV	-	-	-	1	ESE	100	50	---	---	
ME3582	CDIO Project	-	-	2	1	ISE	---	---	100	50	
SH3062	Aptitude Training II	2*	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
TOTAL		12	-	08	17						

Total Contact Hours/week : 20

Total Credits : 17

Note*: One extra lecture to be allotted to Aptitude Training-II in time Table.

Comprehensive Exam Courses : Machine Design, Engines and Refrigeration

ISE = In Semester Exam, MSE (UT1+UT2) UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam





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Program Elective - II

Sr.No.	Course Code	Discipline	Course
1.	ME3622	Design	Solid Mechanics
2.	ME3642		Biomechanics
3.	ME3662		Tribology
4.	ME3682		Fracture Mechanics
5.	ME3702		Finite Element Method
6.	ME3722	Thermal	Alternate fuels
7.	ME3742		Steam Engineering
8.	ME3762		Gas turbines & Jet Propulsion
9.	ME3782		Power Plant engineering
10.	ME3802	Manufacturing	Additive Manufacturing
11.	ME3822		Computer Integrated Manufacturing System
12.	ME3842		Industrial Hydraulics and Pneumatics
13.	ME3862		Operation Research
14.	ME3882		Total Productive Maintenance





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Rev: (Mech. Engg.) Course Structure/RIT/02/2018-19

Department: Mechanical Engineering

Class: Final Year B. Tech

Semester: VII

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max.	Min. for passing	Max.	Min. for passing	
ME4012	Industrial Engineering	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
	Program Elective-III	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
	Program Elective-IV	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
	Open Elective-IV	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15	---	---		
						ESE	50	40	---	---	
ME4512	Industrial Engineering and Quality Control Lab	-	-	2	1	ISE	---	---	100	50	
ME4532	Advanced Machining Lab	-	-	2	1	ISE	---	---	100	50	
ME4572	Software Training II	-	-	2	1	ISE	---	---	100	50	
	Program Elective-IV Lab	-	-	2	1	ISE	---	---	50	50	
						ESE	---	---	50	50	
	Phase-I*	-	-	2	1	ISE	-	-	100	50	
TOTAL		12	-	10	17						

Total Contact Hours/week : 22

Total Credits : 17

ISE = In Semester Exam, MSE (UT1+UT2) UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam





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*Note: Students will work on Phase-I of choice based track allotted to them

Sr.No.	Choice Based Track	Phase –I Details	Course Code
1	Internship & Project (IIP)	Liberal Learning	IP4012
2	Undergraduate Research Experience (URE)	URE Synopsis	RE4012
3	Entrepreneurship Development (ED)	Prefeasibility Report	ED4012
4	Regular Capstone Project (CP)	CP Synopsis	ME4712

Program Elective-III

Sr.No.	Course Code	Discipline	Course
1.	ME4112	Design	Acoustics
2.	ME4132		Material Handling Systems
3.	ME4152		Machine Tool Design
4.	ME4172		Process Equipment Design
5.	ME4192	Thermal	Cryogenics
6.	ME4202		Cogeneration and Waste Heat Management
7.	ME4222	Manufacturing	Industrial Automation and Robotics
8.	ME4242		Production and operation management

Program Elective-IV

Sr.No.	Course Code	Discipline	Course
1.	ME4312	Design	Mechanical Vibrations
2.	ME4332		Experimental Mechanics
3.	ME4352	Thermal	Automobile Engineering
4.	ME4372		Solar Energy
5.	ME4392	Manufacturing	Mechatronics System Design
6.	ME4412		Manufacturing Simulation





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Program Elective-IV Lab

Sr.No.	Course Code	Discipline	Course
1.	ME4552	Design	Mechanical Vibrations Lab
2.	ME4572		Experimental Mechanics Lab
3.	ME4592	Thermal	Automobile Engineering Lab
4.	ME4612		Solar Energy Lab
5.	ME4632	Manufacturing	Mechatronics System Lab
6.	ME4652		Manufacturing Simulation Lab

Open Elective-IV

Sr. No.	Branch	Course Code	Semester-VII Open Elective-IV Courses
1	Automobile	OE4012	Reliability Engineering
2	Automobile	OE4032	Product Design and Development
3	Automobile	OE4052	Design Thinking & Innovation
4	Civil	OE4072	Metro Systems and Engineering.
5	Civil	OE4092	Engineering Economics.
6	Civil	OE4112	Industrial Safety and Risk Management.
7	Computer	OE4132	Cyber Laws
8	Computer	OE4152	Database Administration
9	Electrical	OE4172	Optimization Techniques
10	Electrical	OE4192	Electrical Materials
11	E&TC	OE4212	Mechatronics
12	IT	OE4232	Open Source Software
13	Mechanical	OE4252	Aircraft Systems
14	Mechanical	OE4272	Supply Chain Management
15	Mechanical	OE4292	Non-conventional Energy Sources
16	Mechanical	OE4312	New Product Design and Development
17	MBA	OE4332	Marketing for Engineers





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Track I: Industry Internship & Projects (IIP)

Department: Mechanical Engineering

Class: Final Year B. Tech

Semester: VIII

Sr.No	Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme				
			L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)	
								Max	Min. for passing	Max	Min. for passing
1	IPXX4YYY	Online Course- I/Self learning course-I	-	-	-	3	ESE*			100	50
2	OE4362	Engineering Management & Economics (Online Course)	-	-	-	2	ESE*			100	50
3	IP4022	Internship & Project	-	-	-	11	ISE			50	50
							ESE			50	50
Total			-	-	-	16					

Total Contact Hours/week : --
Total Credits : 16

ISE = In Semester Evaluation, ESE = End Semester Exam

Note:

- 1] Online or self-learning course may be:
 - A] Online Certification Course
 - B] Self-study course approved by Dean Academics
 All courses should be related to Industry project.
- 2] Engineering Management is Compulsory online course.

* Indicates that, student needs to produce certificate of online or certification course at the time of ESE. If student fails to produce this certificate, he or she will not be eligible to give ESE of Online course.

3] *Weekly Contact hours are not mentioned as student is expected to be in industry regularly for 20 weeks. However, student needs to report to Institute mentors as and when required.*





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Guidelines for subject code of Self-study or online course:

1] XX is abbreviation of the department. Abbreviations are given below.

Mechanical Engineering-ME

Automobile Engineering-AE

Electrical Engineering-EE

Civil Engineering-CE

Information Technology-IT

Computer Science and Engineering-CS

Electronics and Telecommunication Engineering-EC

2] YYY is individual subject number. Department has to decide this number. While giving the number YYY to the subject following care must be taken

A] Number should start with 002

B] It should be even number.





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Track II: Undergraduate Research Experience (URE)

Department: Mechanical Engineering

Class: Final Year B. Tech

Semester: VIII

Sr.No	Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
								Max	Min. for passing	Max	Min. for passing	
1	RE4022	Research Methodology	3	-	-	3	ISE	20	40	40		
							UT-1	15				
							UT-2	15				
							ESE	50				
2	RE4062	Research Methodology Lab	-	-	2	1	ISE				100	50
3	OE4362	Engineering Management & Economics (Online Course)	-	-	-	2	ESE*				100	50
4	RE4042	Research Project	-	-	10	10	ISE				50	50
							ESE				50	50
Total			3	-	12	16						

Total Contact Hours/week : 15

Total Credits : 16

ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam

Note:

1] Engineering Management is Compulsory online course.

* For Online Certification course, student needs to produce certificate of online course at the time of ESE. If student fails to produce this certificate, he or she will not be eligible to give ESE of Online course.

All courses should be related to research project.





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Track III: Entrepreneurship Development (ED)

Department: Mechanical Engineering

Class: Final Year B. Tech

Semester: VIII

Sr.No	Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme					
			L	T	P		Scheme	Theory (Marks %)		Practical (Marks %)		
								Max	Min. for passing	Max	Min. for passing	
1	ED4102	Project Management	3	-	-	3	ISE	20	40	40		
							UT-1	15				
							UT-2	15				
							ESE	50				
2	ED4042	Commercial Aspects of the Project	3	-	-	3	ISE	20	40	40		
							UT-1	15				
							UT-2	15				
							ESE	50				
3	ED4062	Entrepreneurship Development Program (EDP)	-	-	-	1	ISE				100	50
4	ED4082	Entrepreneurship Development Project	-	-	9	9	ISE				50	50
							ESE				50	
Total			6	-	9	16						

Total Contact Hours/week : 15

Total Credits : 16

ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam





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Rev: (Mech. Engg.) Course Structure/RIT/02/2018-19

Track IV: Regular Capstone Project (CP)

Department: Mechanical

Class: Final Year B. Tech

Semester: VIII

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max	Min. for passing	Max	Min. for passing	
	Program Elective-V	3	-	-	3	ISE	20	40	40	---	---
UT1						15	---			---	
UT2						15	---			---	
ESE						50	40			---	---
	Open Elective -V	3	-	-	3	ISE	20	40	40	---	---
UT1						15	---			---	
UT2						15	---			---	
ESE						50	40			---	---
OE4362	Engineering Management & Economics (Online Course)	-	-	-	2	ESE*				100	50
ME4722	Capstone Project Phase -II	-	-	8	8	ISE	---	---		50	50
						ESE	--	---		50	50
	Total	06	-	8	16						

Total Contact Hours/week : 14

Total Credits : 16

ISE = In Semester Exam, UT-I = Unit Test-I, UT-II = Unit Test-II ESE = End Semester Exam

1] Engineering Management is Compulsory online course.

* For Online Certification course, student needs to produce certificate of online course at the time of ESE. If student fails to produce this certificate, he or she will not be eligible to give ESE of Online course





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Program Elective-V

Sr.No.	Course Code	Discipline	Course
1.	ME4322	Design	Condition Monitoring
2.	ME4342		Aircraft Conceptual Design
3.	ME4362		Mechanical System Design
4.	ME4382		Rotor Dynamics
5.	ME4402	Thermal	Basics of Computational Fluid Dynamics
6.	ME4422		Air Conditioning system
7.	ME4442	Manufacturing	Total Quality Management
8.	ME4462		Microelectromechanical Systems

Open Elective-V

Sr. No.	Branch	Course Code	Semester-VIII Open Elective-V Courses
1	Automobile	OE4022	Renewable Energy Sources
2	Automobile	OE4042	Transport Management
3	Automobile	OE4062	Electric and Hybrid Electrical Vehicle
4	Civil	OE4082	Smart Cities and Sustainable Development.
5	Civil	OE4102	Material Management.
6	Computer	OE4122	Network Administration
7	Computer	OE4142	Information Technology Foundation Program
8	Electrical	OE4162	Finance Management
9	Electrical	OE4182	Electrical Installations and Maintenance
10	E&TC	OE4202	Image Processing
11	IT	OE4222	Information Technology and Business Management
12	Mechanical	OE4242	Computational Fluid Dynamics
13	Mechanical	OE4262	Entrepreneurship Development
14	Mechanical	OE4282	Hybrid Vehicles
15	Mechanical	OE4302	Maintenance Management
16	Mechanical	OE4322	Reverse Engineering and Benchmarking
17	MBA	OE4342	Finance for Engineers

