



**K.E. Society's**  
**Rajarambapu Institute of Technology, Rajaramnagar**  
*(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)*  
**Curriculum Structure and Evaluation Scheme**  
 With effective from 2018-22 [2018-22 & 2019-23 Batch]  
 Department of 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				
ME2032	Engineering Thermodynamics	3	-	-	3	ISE	20	40	40		
						UT1	15				
						UT2	15				
						ESE	50				
ME2052	Engineering Mechanics	3	-	-	3	ISE	20	40	40		
						UT1	15				
						UT2	15				
						ESE	50				
ME2072	Fluid Mechanics and Fluid Machines	3	-	-	3	ISE	20	40	40		
						UT1	15				
						UT2	15				
						ESE	50				
ME2092	Manufacturing Processes and Machine Tools	3	-	-	3	ISE	20	40	40		
						UT1	15				
						UT2	15				
						ESE	50				
ME2112	Electrical Technology	2	-	-	2	ISE	20	40	40		
						UT1	15				
						UT2	15				
						ESE	50				
SH2172	Environmental Science	1*	-	-	1	ISE	50	40	40		
						ESE	50				
ME2512	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	
SH2602	Environmental Project	-	-	2	1	ISE	---	---	100	50	
	Open Elective- II Choice Based Soft Skill Program-I	-	-	2	1	ISE	-	-	100	50	
	<b>TOTAL</b>	<b>18</b>	<b>-</b>	<b>12</b>	<b>25</b>						

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II ESE = End Semester Examination

**Total Contact Hours/week : 30**

**Total Credits : 25**

**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





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Department of Mechanical Engineering

Sr. No.	Subject Name		Course Code
1.	Choice Based	Personal Effectiveness & Body Language	SH2592
2.	Soft Skill	Interpersonal Skills (Work life Balance)	SH2612
3.	Program-I & II	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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 Department of Mechanical Engineering

**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			---	---
ME2022	Strength of Material	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
ME2042	Applied Thermodynamics	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
ME2062	Manufacturing Engineering	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
ME2082	Kinematics of Machines	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
ME2102	Computer Programming C++	2	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			---	---
ME2522	Machine Drawing Lab	-	-	2	1	ISE	---	---	---	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	50
	<b>Open Elective- III</b>	-	-	2	1	ISE	-	-	--	100	50
	<b>Choice Based Soft Skill Program-II</b>	-	-	2	1	ISE	-	-	--	100	50
	<b>TOTAL</b>	<b>17</b>	<b>1</b>	<b>10</b>	<b>24</b>						

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II ESE = End Semester Examination

**Total Contact Hours/week : 28**

**Total Credits : 24**

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

**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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Department of Mechanical Engineering

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 of Mechanical Engineering

**Department: Mechanical Engineering**

**Class: T. Y. B. Tech**

**Semester: V**

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	50	
SH3032	Aptitude Training I	2*	-	-	2	ISE	20	40	40	---	---	
						UT1	15			---	---	
						UT2	15	---		---		
						ESE	50	40		---	---	
ME3632	Summer Internship	-	-	-	2	ISE	---	---		100	50	
SH301	Indian Constitution	2	-	-	Audit	ISE	100	50	(P/N)			
	TOTAL	19	-	10	25							

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II ESE = End Semester Examination

**Total Contact Hours/week : 29**  
**Total Credits : 25**

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

**Comprehensive exam Courses:** Dynamics of Machines, Design of Machine Elements, Metrology & Control Engineering, Heat Transfer





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Department of Mechanical Engineering

**Program Elective-I**

Sr. No.	Course Code	Domain	Course
1.	ME3312	Design	Mechanics of Composite Material
2.	ME3332		Textile Technology
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 of Mechanical Engineering

**Class:** T. Y. B. Tech

**Semester:** VI

T. Y. B. Tech											
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	---
	Open Elective-IV	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
SH302	Biology for Engineers	3	-	-	3	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
ME3522	Thermal Engineering Lab-III	-	-	2	1	ISE	---	---	---	50	50
						ESE	---	---	---	50	50
ME3542	Software Training-I	-	-	2	1	ISE	---	---	---	100	50
ME3562	Comprehensive exam-IV	-	-	-	1	ESE	---	---	---	100	50
ME3582	Capstone Project phase-I	-	-	2	2	ISE	---	---	---	100	50
SH3042	Aptitude training- II	2*	-	-	2	ISE	20	40	40	---	---
						UT1	15			---	---
						UT2	15			---	---
						ESE	50			40	---
TOTAL		17	-	6	22						

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II ESE = End Semester Examination

**Total Contact Hours/week : 23**  
**Total Credits : 22**

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

**Comprehensive exam Courses:** Machine Design, Engines and Refrigeration





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Department of Mechanical Engineering

**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	Alternative 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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**Open Elective-IV**

Sr. No.	Branch	Course Code	Open Elective-IV Courses
1.	Automobile	OE3022	Reliability Engineering
2.	Automobile	OE3042	Renewable Energy Sources
3.	Civil	OE3062	Environmental Impact Assessment
4.	Civil	OE3082	Material Management.
5.	Computer	OE3102	Network Administration
6.	Computer	OE3122	Information Technology Foundation Program
7.	E&TC	OE3142	Mechatronics
8.	Electrical	OE3162	Engineering Materials
9.	Electrical	OE318	Industrial Drives
10.	CS&IT	OE320	Artificial Intelligence
11.	CS&IT	OE322	Cyber Forensics
12.	MBA	OE3242	Marketing for Engineers
13.	Mechanical	OE3262	Aircraft Systems
14.	Mechanical	OE3282	Supply Chain Management
15.	Mechanical	OE330	New Product Design and Development
16.	Mechanical	OE3322	Entrepreneurship Development
17.	Mechanical	OE334	Research Methodology





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**Curriculum Structure and Evaluation Scheme**

With effective from 2018-22 [2018-22 & 2019-23 Batch]

Department of 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(%)
ME4013	Industrial Engineering	3	-	-	3	ISE	20	40	---	---
						UT1	15		---	---
						UT2	15		---	---
						ESE	50		40	---
	Program Elective-III	3	-	-	3	ISE	20	40	---	---
						UT1	15		---	---
						UT2	15		---	---
						ESE	50		40	---
	Program Elective-IV	3	-	-	3	ISE	20	40	---	---
						UT1	15		---	---
						UT2	15		---	---
						ESE	50		40	---
	Program Elective-V	3	-	-	3	ISE	20	40	---	---
						UT1	15		---	---
						UT2	15		---	---
						ESE	50		40	---
ME4512	Industrial Engineering and Quality Control	-	-	2	1	ISE	---	---	100	50
ME4532	Advanced Machining Lab	-	-	2	1	ISE	---	---	100	50
ME4552	Software Training II	-	-	2	1	ISE	---	---	100	50
	Program Elective-IV Lab	-	-	2	1	ISE	---	---	50	50
						ESE	---	---	50	50
ME4732	Capstone Project Phase-II	-	-	4	4	ISE	--	---	100	50
						ESE	--	---	100	50
	TOTAL	12		12	20					

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II ESE = End Semester Examination

**Total Contact Hours/week : 24**

**Total Credits : 20**





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**Program Elective-III**

Sr.No.	Course Code	Discipline	Course
1.	ME4112	Design	Engineering Acoustics
2.	ME4132		Material Handling Systems
3.	ME4152		Machine Tool Design
4.	ME4172		Process Equipment Design
5.	ME4192	Thermal	Cryogenics
6.	ME4212		Cogeneration and Waste Heat Management
7.	ME4232	Manufacturing	Industrial Automation and Robotics
8.	ME4252		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

**Program Elective-IV Lab**

Sr.No.	Course Code	Discipline	Course
1.	ME4592	Design	Mechanical Vibrations Lab
2.	ME4612		Experimental Mechanics Lab
3.	ME4632	Thermal	Automobile Engineering Lab
4.	ME4652		Solar Energy Lab
5.	ME4672	Manufacturing	Mechatronics System Lab
6.	ME4692		Manufacturing Simulation Lab





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**Program Elective-V**

Sr.No.	Course Code	Discipline	Course
1.	ME4752	Design	Condition Monitoring
2.	ME4772		Aircraft Conceptual Design
3.	ME4792		Mechanical System Design
4.	ME4812		Rotor Dynamics
5.	ME4832	Thermal	Computational Fluid Dynamics
6.	ME4852		Air Conditioning system
7.	ME4872		Hybrid & Electrical Vehicles
8.	ME4892	Manufacturing	Total Quality Management
9.	ME4912		Microelectromechanical Systems





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**Track I: Industry Internship & Projects (IIP)**

**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 (%)
OE438	Finance for Engineers (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40	---	---	
OE436	Engineering Management & Economics (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40	---	---	
IP4022	Internship & Project	-	-	-	8	ISE	---	----		50	50
						ESE	---	---		50	50
	TOTAL	4	-	-	12						

ISE = In Semester Evaluation, ESE = End Semester Examination

**Total Contact Hours/week** : 04  
**Total Credits** : 12

**Note:**

1] Weekly Contact hours are not mentioned for IP4022 course, as student is expected to be in industry regularly for 20 weeks. However, student needs to report to Institute mentors as and when required.

2] For online course, lecture videos of each unit will be made available through college platform to the students. For each unit there will be separate assignment. Students need to submit all assignments within specified time.

**Weightage:** 25% weightage for unit wise assignments + 75% weightage for final exam. Final exam will be held at college campus.





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**Track II: Undergraduate Research Experience (URE)**

**Class:** Final Year B. Tech

**Semester:** VIII

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Credits	Scheme	Theory (Marks )		Practical (Marks )		for
							Max.	Min. for passing (%)	Max.	Min. for passing(%)	
OE438	Finance for Engineers (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40		---	---
OE436	Engineering Management & Economics (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40		---	---
RE4042	Research Project	-	-	8	8	ISE	---	----	50	50	
						ESE	---	---		50	50
	TOTAL	04	-	8	12						

ISE = In Semester Evaluation, ESE = End Semester Examination

**Total Contact Hours/week : 12**

**Total Credits : 12**

**Note:**

1] For online course, lecture videos of each unit will be made available through college platform to the students. For each unit there will be separate assignment. Students need to submit all assignments within specified time.

**Weightage:** 25% weightage for unit wise assignments + 75% weightage for final exam. Final exam will be held at college campus.





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**Track III: Entrepreneurship Development (ED)**

**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	2*	-	-	2	ISE	20	40	40	---	---
							UT-1	15				
							UT-2	15				
							ESE	50				
2	ED4042	Commercial Aspects of the Project	2*	-	-	2	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	-	-	7	7	ISE	---	---	---	50	50
							ESE				50	
Total			4	-	7	12						

ISE = In Semester Evaluation, UT1 = Unit Test-I, UT2 = Unit Test-II ESE = End Semester Examination

**Total Contact Hours/week : 11**

**Total Credits : 12**

**Note:**

1] \* One extra lecture to be allotted to Project Management and Commercial Aspects of the Project course in time table.

