



K.E. Society's
Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation
with effective from 2020-21 [2020-24 & 2021-25 Batch]
Department of Civil Engineering

Class : S. Y. B. Tech.

Semester: III

Course Code	Course	Teaching Scheme				Evaluation Scheme				
		L	T	P	Cr	Scheme	Theory (Marks)		Practical (Marks)	
							Max	Min. for passing %	Max.	Min. for passing %
CE 2033	Engineering Mechanics	3	-	-	3	ISE	20	40	40	-
						UT1	15			-
						UT2	15			-
						ESE	50			-
CE 2053	Strength of Material	3	-	-	3	ISE	20	40	40	-
						UT1	15			-
						UT2	15			-
						ESE	50			-
CE 2193	Human Values and Professional Ethics	2	-	-	2	ISE	20	40	40	-
						UT1	15			-
						UT2	15			-
						ESE	50			-
CE 2213	Building Planning and Design	3	-	-	3	ISE	20	40	40	-
						UT1	15			-
						UT2	15			-
						ESE	50			-
CE 2073	Surveying	3	-	-	3	ISE	20	40	40	-
						UT1	15			-
						UT2	15			-
						ESE	50			-
SH 2173	Environmental Science	1*	-	-	1	ISE	50	40	40	-
						ESE	50	40		-
CE 2233	Building Planning and Design Laboratory	-	-	4	2	ISE	-	-	-	50
						ESE	-	-	-	50
CE 2113	Surveying Laboratory	-	-	2	1	ISE	-	-	-	50
						ESE	-	-	-	50
CE 2133	Strength of Material Laboratory	-	-	2	1	ISE	-	-	-	100
CE 2153	Technical Aptitude-I	-	-	2	1	ESE	-	-	-	100
CE 2173	Engineering Mechanics Laboratory	-	-	2	1	ISE	-	-	-	100
SH 2603	Environmental Science Project	-	-	2	1	ISE	-	-	-	100
	Open Elective -II Choice Based Soft Skill Program-I	-	-	2	1	ISE	-	-	-	100
	TOTAL	15	00	16	23	-	-	-	-	-

Total Contact Hours/week

: 31

Total Credits

: 23

Notes:

* One extra lecture to be allotted to Environment Science in Time Table.





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Courses for Technical Aptitude-I: Engg. Mechanics, Strength of Materials, Surveying, Building Planning and Design

ISE = In Semester Evaluation, UT-1 = Unit Test-1, UT-2 = Unit Test-2 & ESE = End Semester Examination

Open Elective –II

List of Choice Based Soft Skill Program-I

Sr. No.	Subject Name	Course Code
1.	Choice Based Soft Skill Program-I & II Personal Effectiveness & Body Language	SH2593
2.	Interpersonal Skills (Work life Balance)	SH2613
3.	Leadership & Public Speaking	SH2633
4.	Innovation Tools and Methods for Entrepreneurs	SH2693
5.	German Language – Basic Level	SH2733
6.	Japanese Language – Basic Level	SH2713

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 size 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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Class : S. Y. B. Tech.

Semester: IV

Semester: IV																	
Course Code	Course	Teaching Scheme				Evaluation Scheme											
		L	T	P	Cr	Scheme	Theory (Marks)		Practical (Marks)								
							Max.	Min. for passing%	Ma x.	Min. for passing %							
SH 2053	Engineering Mathematics III	3	1	-	4	ISE	20	40	40	-	-						
						UT1	15			-	-						
						UT2	15	40	40	-	-						
						ESE	50			-	-						
CE 2043	Concrete Technology	3	-	-	3	ISE	20	40	40	-	-						
						UT1	15			-	-						
						UT2	15	40	40	-	-						
						ESE	50			-	-						
CE 2063	Fluid Mechanics	3	-	-	3	ISE	20	40	40	-	-						
						UT1	15			-	-						
						UT2	15	40	40	-	-						
						ESE	50			-	-						
CE 2083	Mechanics of Structures	3	-	-	3	ISE	20	40	40	-	-						
						UT1	15			-	-						
						UT2	15	40	40	-	-						
						ESE	50			-	-						
CE 2123	Applications of Programming Language in Civil Engineering	-	-	2	1	ISE	-	-	-	50	50						
						ESE	-	-	-	50	50						
						CE 2143	Engineering Geology Laboratory	-	-	2	1	ISE	-	-	-	100	50
						CE 2163	Fluid mechanics Laboratory	-	-	2	1	ISE	-	-	-	100	50
CE 2183	Concrete Technology Laboratory	-	-	2	1	ISE	-	-	-	50	50						
						ESE	-	-	-	50	50						
CE 2203	Technical Aptitude-II	-	-	2	1	ESE	-	-	-	100	50						
	Open Elective –III Choice Based Soft Skill Program-II	-	-	2	1	ISE	-	-	-	100	50						
	TOTAL	12	1	12	19	-	-	-	-	-	-						

Total Contact Hours/week : 25

Total Credits : 19

Note **Internship will be carried out after completion of semester IV for 4 Weeks. The evaluation will be done at the end of semester V.

Courses for Technical Aptitude-II: Engineering Mathematics III, Mechanics of Structures, Fluid Mechanics, Concrete Technology

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Open Elective –III

List of Choice Based Soft Skill Program-II

Sr. No.	Subject Name	Course Code
1.	Personal Effectiveness & Body Language	SH2593
2.	Interpersonal Skills (Work life Balance)	SH2613
3.	Leadership & Public Speaking	SH2633
4.	Innovation Tools and Methods for Entrepreneurs	SH2693
5.	German Language – Advanced Level	SH2643
6.	Japanese Language – Advanced Level	SH2623

Note:

1. A student has to complete any two courses out of six choices offered under Choice Based Soft Skills Program. 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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Class : T. Y. B.Tech.

Semester: V

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 %	
CE 3013	Design of Steel Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			40	-
CE 3033	Geotechnical Engineering	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			40	-
CE 3053	Irrigation and Hydraulic Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			40	-
CE 3073	Environmental Engineering	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			40	-
CE 3093	Transportation Engineering	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	-
CE 3113	Geotechnical Engineering Laboratory	-	-	2	1	ISE	-	-	-	50	50
CE 3133	Environmental Engineering Laboratory	-	-	2	1	ESE	-	-	-	50	50
CE 3153	Transportation Engineering Laboratory	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
SH 3033	Scholastic Aptitude -I	2*	-	-	2	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50				
CE 3173	Technical Aptitude-III	-	-	2	1	ESE	-	-	-	100	50
CE 3333	Summer Internship (4 Weeks)	-	-	-	2	ISE	---	---	---	100	50
SH 3011	Indian Constitution	2	-	-	Audit	ISE	100	40	-	-	-
TOTAL		22	00	08	24	-	-	-	-	-	-

Total Contact Hours/week : 30
Total Credits : 24



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Courses for Technical Aptitude-III: Design of steel Structures, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Irrigation and Hydraulic Structures

Note:

* One extra lecture will be allotted in the time table.

ISE = In Semester Evaluation, UT-1 = Unit Test-1, UT-2 = Unit Test-2 & ESE = End Semester Examination

List of Program Elective-PE I

Sr. No.	Course Code	Domain	Course
1	CE 3193	Structural Engineering	Structural Analysis
2	CE 3213		Composite Materials
3	CE 3233	Construction Management	Construction Safety Management
4	CE 3253		Advanced Construction Techniques
5	CE 3273	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Advanced Water Treatment
6	CE 3293		Tunnel Docks and Harbors Engineering
7	CE 3313		Urban Transportation Systems





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Class : T. Y. B. Tech.

Semester: VI

Course Code	Course	Teaching Scheme				Scheme	Evaluation Scheme				
		L	T	P	Cr		Theory (Marks)		Practical (Marks)		
							Max.	Min. for passing%	Max.	Min. for passing %	
CE 3023	Theory of Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40	-	-	
CE 3043	Estimation & Contracts	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40	-	-	
CE 3063	Construction Management	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40	-	-	
	Program Elective –II	3	-	-	3	ISE	20		40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40	-	-	
	Open Elective -IV	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40	-	-	
SH 3021	Biology for Engineers	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50	40	-	-	
CE 3083	Estimation & Contracts Laboratory	-	-	4	2	ISE	-	-		50	50
						ESE	-	-		50	50
CE 3103	Design of Steel Structures Laboratory	-	-	2	1	ISE	-	-		50	50
						ESE	-	-		50	50
CE 3123	Technical Aptitude-IV	-	-	2	1	ESE	-	-		100	50
CE 3143	Capstone Project Phase-I	-	-	2	2	ISE	---	---		100	50
SH304	Psychology for Engineers	1*	-	-	1	ISE	-	-		50	50
						ESE	-	-		50	50
SH3043	Scholastic Aptitude II	2*	-	-	2	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
	TOTAL	20	00	10	26	-	-	-	-	-	-

Total Contact Hours/week : 30

Total Credits : 26

Courses for Technical Aptitude-IV: Theory of Structures, Estimation & Costing, Construction Management



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Note:

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List of Program Elective PE- II

Sr. No.	Course Code	Domain	Course
1	CE 3163	Structural Engineering	Design of Industrial Structures
2	CE 3183		Repair and Rehabilitation of Structures
3	CE 3203	Construction Management	Construction Economics and Finance
4	CE 3223		Disaster Preparedness and Planning
5	CE 3243	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Air Quality Monitoring and Modeling
7	CE 3263		Railway and Airport Engineering
8	CE 3283		Foundation Engineering
9	CE3303		Advanced Wastewater Engineering

Open Elective-IV

Sr. No.	Branch	Course Code	Open Elective-IV Courses
1	Automobile	OE3023	Reliability Engineering
2	Automobile	OE3043	Renewable Energy Sources
3	Civil	OE3063	Environmental Impact Assessment
4	Civil	OE3083	Material Management.
5	Computer	OE3103	Network Administration
6	Computer	OE3123	Information Technology Foundation Program
7	E&TC	OE3143	Mechatronics
8	Electrical	OE3163	Engineering Materials
9	Electrical	OE3181	Industrial Drives
10	CS&IT	OE336	Neural Network and Deep learning
11	CS&IT	OE3221	Cyber Forensics
12	MBA	OE3243	Marketing for Engineers



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Sr. No.	Branch	Course Code	Open Elective-IV Courses
13	Mechanical	OE3263	Aircraft Systems
14	Mechanical	OE3283	Supply Chain Management
15	Mechanical	OE3301	New Product Design and Development
16	Mechanical	OE3323	Entrepreneurship Development
17	Mechanical	OE3341	Research Methodology





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Class : Final Year. B. Tech.

Semester: VII

Semester: VII											
Course Code	Course	Teaching Scheme				Exam	Evaluation Scheme				
		L	T	P	Cr		Theory (Marks %)		Practical (Marks %)		
							Max.	Min. for passing	Max.	Min. for passing	
CE 4013	Design of Reinforced Concrete Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
CE 4033	Construction Equipment and Methods	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
CE 4473	Earthquake Engineering	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
	Program Elective PE– III	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
	Program Elective -IV	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
	Program Elective -V	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
	Program Elective -IV Lab	-	-	2	1	ISE	-	-	-	-	-
						ESE	-	-	-	-	-
						ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE 4493	Capstone Project Phase-II	-	-	4	4	ISE	-	-	-	100	50
						ESE	-	-	-	100	50
CE 4073	Employment Enhancement Skills (Software in Civil Engg.)	-	-	2	1	ISE	-	-	-	100	50
	TOTAL	16	00	10	23	-	-	-	-	-	-

Total Contact Hours/week : 26

Total Credits : 23

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List of Program Elective (PE) – III

Sr. No.	Course Code	Domain	Course
1	CE 4353	Structural Engineering	Design of Bridges
2	CE 4373		Design of Formwork
3	CE 4393	Construction Management	Advanced Construction Equipment
4	CE 4413	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Environmental Management System
5	CE 4433		Geographical Information System (GIS)
7	CE 4453		Metro Rail Technology

List of Program Elective (PE) - IV

Sr. No.	Course Code	Domain	Course
1	CE 4093	Structural Engineering	Advanced Structural Design
2	CE 4113		Pre-stressed Concrete structures
3	CE 4133	Construction Management	Project Management
4	CE 4153	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Rock Mechanics
5	CE 4173		Industrial Waste Management
6	CE 4193		Pavement Analysis and Design
7	CE 4513		Advanced Concrete Technology

List of Program Elective (PE) - IV Lab

Sr. No.	Course Code	Domain	Course
1	CE 4213	Structural Engineering	Advanced Structural Design Laboratory
2	CE 4233		Pre-stressed Concrete structures Laboratory
4	CE 4253	Construction Management	Project Management Laboratory
5	CE 4273	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Rock Mechanics Laboratory
6	CE 4293		Industrial Waste Management Laboratory
7	CE 4313		Pavement Analysis and Design Laboratory
8	CE 4333		Advanced Concrete Technology Laboratory





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List of Program Elective (PE)–V

Sr. No.	Course Code	Domain	Course
1	CE 4533	Structural Engineering	Advanced Structural Analysis
2	CE 4553		Finite Element Analysis
3	CE 4573		Matrix Method of Structural Analysis
4	CE 4593	Construction Management	Construction Resource Planning and Management
5	CE 4613		Total Quality Management
6	CE 4633	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Air Pollution and Control
7	CE 4653		Fundamentals of Urban and Regional Planning
8	CE 4673		Solid and Hazardous Waste management
9	CE 4693		Photogrammetry Surveying
10	CE 4713		Geo-informatics for Engineering
11	CE 4733		Docks, Harbors and Airport Engineering



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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%
OE4381	Finance for Engineers (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40		---	---
OE4361	Engineering Management & Economics (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40		---	---
IP4023	Internship & Project	-	-	-	8	ISE	---	----		50	50
						ESE	---	---		50	50
	TOTAL	04	-	-	12						

ISE = In Semester Evaluation, ESE = End Semester Examination

Total Contact Hours/week : 04

Total Credits : 12

Notes:

1. 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.
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)	
							Max.	Min. for passing%		Max.	Min. for passing%
OE4381	Finance for Engineers (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40		---	---
OE4361	Engineering Management & Economics (Online Course)	2	-	-	2	ISE	25	40	40	---	---
						ESE	75	40		---	---
RE4043	Research Project	-	-	8	8	ISE	---	----		50	50
						ESE	---	---		50	50
	TOTAL	04	-	08	12						

ISE = In Semester Evaluation, ESE = End Semester Examination

Total Contact Hours/week : 12

Total Credits : 12

Note:

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

Course Code	Course	Teaching Scheme			Credits	Evaluation Scheme					
		L	T	P		Scheme	Theory (Marks)		Practical (Marks)		
							Max	Min. for passing%	Max	Min. for passing%	
ED4103	Project Management	2*	-	-	2	ISE	20	40	40		
						UT-1	15				
						UT-2	15				
						ESE	50	40			
ED4043	Commercial Aspects of the Project	2*	-	-	2	ISE	20	40	40		
						UT-1	15				
						UT-2	15				
						ESE	50	40			
ED4063	Entrepreneurship Development Program (EDP)	-	-	-	1	ISE				100	50
ED4083	Entrepreneurship Development Project	-	-	7	7	ISE				50	50
						ESE				50	
Total		04	-	07	12						

Total Contact Hours/week : 11

Total Credits : 12

Note:

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

ISE = In Semester Evaluation, UT-1 = Unit Test-1, UT-2 = Unit Test-2 ESE = End Semester Examination

