

Curriculum Structure and Evaluation with effective from 2020-21 [2020-24 & 2021-25 Batch]

Department of Civil Engineering

Class	: S. Y. B. Tech.					_			Se	emester	: III	
		T	each	ing S	cheme		I	Evalua	tion Scl	heme		
Course								Theor	•	P	ractical	
Code	Course	L	T	P	Cr	Scheme		(Mark		(1	(Marks)	
				-		Semente	Max	-0.00000	n. for	Max.	Min. for	
			+		-	TOP		pass	ing %	11222	passing %	
						ISE	20	4.0			-	
CE 2033	Engineering Mechanics	3	-	_	3	UT1	15	40	40	-		
						UT2	15	10	-	-	-	
		-	+	-		ESE	50	40		-	-	
		z) _				ISE	20	-		-	-	
CE 2053	Strength of Material	3	_	_	3	UT1	15	40	40	-	-	
						UT2	15			_	= '	
						ESE	50	40		-	-	
						ISE	20			_	-	
CE 2193	Human Values and	2	_	_	2	UT1	15	40	40	-	-	
CEZIOS	Professional Ethics	~	_	-	2	UT2	15		40	_	-	
	- 6					ESE	50	40		-	-	
						ISE	20			-	-	
CE 2213	Building Planning and	3	_	_	3	UT1	15	40	40	_	-	
CEZZIS	Design]	1 -	-	3	UT2	15		40	-	-	
						ESE	50	40		-	-	
						ISE	20			-	-	
CE 2073	Surveying	3	_	_	3	UT1	15	40	40	-	-	
022075				1.55	J	UT2	15] 40	-	-	
						ESE	50	40		_	-	
SH 2173	Environmental Science	1*	_	_	1	ISE	50	40	40	-	-	
		1			•	ESE	50	40	10	-	-	
CE 2233	Building Planning and	-	_	4	2	ISE	-	-	-	50	50	
	Design Laboratory					ESE	-	-	-	50	50	
CE 2113	Surveying Laboratory	_	_	2	1	ISE		-		50	50	
				ļ		ESE	-	-		50	50	
CE 2133	Strength of Material Laboratory	-	-	2	1	ISE	-	-	-	100	50	
CE 2153	Technical Aptitude-I	-	-	2	1	ESE	_	-	-	100	50	
CE 2173	Engineering Mechanics Laboratory	-	-	2	1	ISE	-	-	-	100	50	
SH 2603	Environmental Science Project	-	-	2	1	ISE				100	50	
	Open Elective –II Choice Based Soft Skill Program-I	-	-	2	1	ISE	-	=	-	100	50	
7D 4 1 C	TOTAL	15	00	16	23	-	-	-	-	-	-	

Total Contact Hours/week

Total Credits

: 31 : 23

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



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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

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	Personal Effectiveness & Body	SH2593
	Skill Program-I & II	Language	
2.		Interpersonal Skills (Work life	SH2613
		Balance)	
3.		Leadership & Public Speaking	SH2633
4.		Innovation Tools and Methods for	SH2693
		Entrepreneurs	
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.





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: IV

Class	: S. Y. B. 1ecn.	T	nachin	a Cal	0220		177-	1 4° :		ester:	17
		16	acnin	g Sch	eme	-		aluatio			
Course								Theory Marks		31	ractical
Code	Course	L	Т	P	Cr	Scheme	(.	VIAIKS)	(Marks)
Couc		L	1	1	Ci		Max.	500000000000000000000000000000000000000	. for ing%	Ma x.	Min. for passing %
						ISE	20				-
SH 2053	Engineering	3	1	_	4	UT1	15	40	40	_	-
DII 2033	Mathematics III		1		-	UT2	15		40		-
						ESE	50	40		-	-
						ISE	20			-	_
CE 2043	Concrete Technology	3		_	3	UT1	15	40	40	-	_
CE 2043	Concrete reciniology]	-	-	3	UT2	15		40	_	-
						ESE	50	40		-	-
						ISE	20			-	-
CE 2063	Fluid Mechanics	3	_		3	UT1	15	40	40	-	_
CE 2003	Fluid Mechanics	3	_	-	3	UT2	15		40	-	-
						ESE	50	40		-	=
						ISE	20			-	_
CE 2083	Mechanics of Structures	3			3	UT1	15	40	40	-	-
CE 2003	Weethames of Structures	3	-	-	3	UT2	15		40	-	-
						ESE	50	40		-	
CE 2123	Applications of Programming Language	_	_	2	1	ISE	-	_		50	50
	in Civil Engineering				1	ESE	-	-	2	50	50
CE 2143	Engineering Geology Laboratory	-	-	2	1	ISE	-	-	ii.	100	50
CE 2163	Fluid mechanics Laboratory	-	_	2	1	ISE	-	» -		100	50
CE 2183	Concrete Technology	200	_	2	1	ISE	-	_		50	50
CE 2103	Laboratory	_	-		1	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

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



Rajarambapu Institute of Technology, Sakharale (An Autonomous Institute, affiliated to Shivaji University, Kolhapur)

n Autonomous Institute, affiliated to Shivaji University, Kolhapun Curriculum Structure and Evaluation

with effective from 2020-21 [2020-24 & 2021-25 Batch] Department of Civil Engineering

Open Elective -III

List of Choice Based Soft Skill Program-II

Sr. No.		Subject Name	Course Code
1.	Choice Based Soft	Personal Effectiveness & Body	SH2593
	Skill Program-I & II	Language	
2.		Interpersonal Skills (Work life	SH2613
		Balance)	
3.		Leadership & Public Speaking	SH2633
4.		Innovation Tools and Methods for	SH2693
		Entrepreneurs	
5.		German Language – Advanced Level	SH2643
6.		Japanese Language – Advanced	SH2623
		Level	41

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.



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: T. Y. B. Tech.

		T	Te	each	ino !	Scheme	a			т.		Semester	:: V
Course	Course							me			ory		Practical Marks)
			L	Т	F	, Post		Scheme	Ma	X .	Min. fo	r May	Min. fo
	Design of Steel Structures							ISE	20			-	- 70
CE 3013	3 Sough of Steel Structures	S :	3	-	-	3		UT1	15		0 40	-	
								UT2	15			-	-
		+	\dashv				_	ESE	50	40		-	-
CE 2022		1 8			,		. -	ISE	20	_			-
CE 3033	Geotechnical Engineering	3	3	-	ĺ -	3	-	UT1	15	_ 40	40	-	-
								UT2	15				-
		+	+		-			ESE	: 50	40		-	-
CE 3053	Irrigation and Hydraulic						-	ISE	20	4	1	-	-
CE 3033	Structures	3		-	-	3	-	UT1	15	_ 40	40	-	
								UT2	15	4		-	-
			+	\dashv	4870	-		ESE	50	40		-	-
CE 3073	Environmental		-		1		_	ISE	20	٠		-	-
CE 30/3	Engineering	3		-	-	3	_	UT1	15	40	40	-	Scy w
								UT2	- 15	1		-	- '-
		-	+	\dashv		+	_	ESE	50	40		-	
CE 3093	Transportation						_	ISE	20	-		-	-
CE 3093	Engineering	3	1	-	-	3		UT1	15	40	40	-	-
								JT2	15		_ ''	-	-
			+	+	/	+		ESE	50	40		-	-
	D. D. D.							ISE	20			-	
	Program Elective - I	3	-	.	-	3		JT1	_ 15	40	40	-	
21.3.								JT2	15	1.0	١.,	-	-
CE 3113	Geotechnical Engineering		+	+		-		SE SE	50	40		-	
-E 3113	Laboratory	-	-		2	1		SE			-	50	50
CE 3133	Environmental		+	+				SE_		-	-	50	50
JE 3133	Engineering Laboratory	-	-	17	2	1		SE	- :	-	-	50	50
CE 3153	Transportation		1	_				SE		-	-	50	50
JE 3133	Engineering Laboratory	-	-		2	1		SE	-	-	-	50	50
				+				SE	- 20	-	-	50	50
H 3033	Scholastic Aptitude -I	O 11						T1	20	40			1 2 -
11 5055	Scholastic Aptitude -1	2*	-		-	2		T2		40	40	- L	
								SE	15	10			
E 3173	Technical Aptitude-III	-	-	1	2	1		SE	50	40		100	
E 3333	Summer Internship (4 Weeks)	-	-		-	2		SE SE	<u> </u>			100	50
	Indian Constitution	2	-		-	Audit	IS		100	40		100	50
	TOTAL	22	00	+-)8	24					-	-	-

Total Contact Hours/week

: 30

Total Credits

: 24



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

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	Structural Engineering	Composite Materials					
3	CE 3233	Construction Management	Construction Safety Management					
4	CE 3253	Construction Management	Advanced Construction Techniques					
5	CE 3273	General Civil Engineering	Advanced Water Treatment					
6	CE 3293	(Environmental, Geotechnical,	Tunnel Docks and Harbors Engineering					
7	CE 3313	Transportation etc.)	Urban Transportation Systems					



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Curriculum Structure and Evaluation with effective from 2020-21 [2020-24 & 2021-25 Batch] Department of Civil Engineering

· T V R Tech

Semester: VI

Class	: T. Y. B. Tech.								Sen	nester:	VI
		Te	achin	g Sch	eme			Eva	luatior	Schem	e
Course Code	Course							Theory Marks			actical Iarks)
Code		L	Т	P	Cr	Scheme	Max.	100000000000000000000000000000000000000	n. for ing%	Max.	Min. for passing
						ISE	20			-	-
CE 3023	Theory of Structures	3	_	_	3	UT1	15	40	40	-	-
020020						UT2	15	-		-	-
		-				ESE	50	40		-	-
						ISE	20			1-	-
CE 3043	Estimation & Contracts	2	-	-	2	UT1	15	40	40	-	-
						UT2	15	10		-	-
		-			-	ESE	50	40		-	-
CE 3063	Construction					ISE UT1	20	40		-	
CE 3003	Management	3		-	3	UT2	15	40	40		- 2
	Wanagement					ESE	50	40	-		-
				-		ISE	20	40		-	7-
						UT1	15			-	-
	Program Elective –II	3	-	_	3	UT2	15	1	40	-	-
						ESE	50	40		_	-
				1	-	ISE	20	70			
	Open Elective -IV		_	_		UT1	15	40		-	-
	Open Elective 11	3	_	_	3	UT2	15	70	40	_	
(4)						ESE	50	40		-	
	10-1-20-1-20-1-20-1-20-1-20-1-20-1-20-1					ISE	20	10		_	
CYY and	Biology for Engineers		_	_	_	UT1	15	40		-	-
SH 3021		3		-	3	UT2	15		40	-	-
						ESE	50	40		-	-
CE 2002	Estimation & Contracts	-	-	1	2	ISE	-	-	-	50	50
CE 3083	Laboratory			4	2	ESE	-	-		50	50
CE 3103	Design of Steel Structures	-	-	2	1	ISE	-	1		50	50
CE 3103	Laboratory			2	1	ESE	-	-		50	50
CE 3123	Technical Aptitude-IV	-	-	2	1	ESE	-	4		100	50
CE 3143	Capstone Project Phase-I	-	-	2	2	ISE				100	50
CH204	Psychology for Engineers	1*			1	ISE	-	-		50	50
SH304	r sychology for Engineers	1,	-	-	1	ESE	-	-		50	50
						ISE	20				
CH2042	Scholastic Aptitude II	2*		7902	2	UT1	15	40	40		
SH3043		2*	-	-	2	UT2	15		40	-	-
						ESE	50	40			
	TOTAL	20	0.0	10	26		-	_	-	-	-

Total Contact Hours/week

Total Credits : 26

: 30

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



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

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-II

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

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

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



Rajarambapu Institute of Technology, Sakharale



Curriculum Structure and Evaluation with effective from 2020-21 [2020-24 & 2021-25 Batch] Department of Civil Engineering

Class: Final Year B Tech

Semester: VII

Class	: Final Year. B. Tech.					1	1			iester: `	
		T	eachi	ng Sc	heme					n Schem	
Course						Exam		Theory			actical
Code	Course	L	T	P	Cr		(N	larks 9		(Ma	arks %)
							Max.	Min. for passing		Max.	Min. for passing
						ISE	20			-	-
CE 4013	Design of Reinforced	3	_	-	3	UT1	15	40	40	-	-
CE 1015	Concrete Structures					UT2	15] 40	-	-
			_			ESE	50	40		-	-
						ISE	20			-	-
CE 4033	Construction Equipment	2	-	-	2	UT1	15	40	40	-	_
CE 1000	and Methods	-			2	UT2	15		1 40	-	-
						ESE	50	40		-	-
						ISE	20		40	-	-
CE 4473	Forth qualto Engineaning	2	-	_		UT1	15	40		-	_
CE 44/3	Earthquake Engineering	2			2	UT2	15			-	-
						ESE	50	40			_
						ISE	20			-	-
	Program Elective PE- III		_	-	_	UT1	15	40		-	-
		3			3	UT2	15		40	_	-
						ESE	50	40		-	-
						ISE	20			-	-
	Program Elective -IV	3	-	-	3	UT1	15	40	40	_	-
	1 Togram Elective -1 v)			3	UT2	15		40	-	-
						ESE	50	40		_	-
						ISE	20			-	-
	Program Elective -V	3	-	-	3	UT1	15	40	40	-	-
	1 Togram Elective - v	3			3	UT2	15		40	-	-
						ESE	50	40			-
	Program Elective -IV Lab	-	1-	2	1	ISE	-	-	_	-	-
7					-	ESE		-	-	-	-
CE 4053	Design of Concrete	-	-	2	1	ISE	-	-	-	50	50
02.000	Structures Laboratory				•	ESE	-	-	-	50	50
				4	4	ISE	1-	-	_	100	50
CE 4493	Capstone Project Phase-II	-	-	+	4	ESE	-	_	-	100	50
CE 4073	Employment Enhancement Skills (Software in Civil Engg.)	1-1	-	2	1	ISE	-	-	-	100	50
	TOTAL	16	00	10	23	-	-	-	-	-	_

Total Contact Hours/week

: 26

Total Credits

: 23

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



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K.E. Society's
Rajarambapu Institute of Technology, Sakharale
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Curriculum Structure and Evaluation with effective from 2020-21 [2020-24 & 2021-25 Batch] Department of Civil Engineering

List of Program Elective (PE)-III

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

List of Program Elective (PE) - IV

Sr. No.	Course Code	Domain	Course				
1	CE 4093	Ctt 177 :	Advanced Structural Design				
2	CE 4113	Structural Engineering	Pre-stressed Concrete structures				
3	CE 4133	Construction Management	Project Management				
4	CE 4153	General Civil Engineering	Rock Mechanics				
5	CE 4173	(Environmental,	Industrial Waste Management				
6	CE 4193	Geotechnical,	Pavement Analysis and Design				
7	CE 4513	Transportation etc.)	Advanced Concrete Technology				

List of Program Elective (PE) - IV Lab

Sr. No.	Course Code	Domain	Course					
1	CE 4213	S4	Advanced Structural Design Laboratory					
2	CE 4233	Structural Engineering	Pre-stressed Concrete structures Laborato					
4	CE 4253	Construction Management	Project Management Laboratory					
5	CE 4273	0 10 11 -	Rock Mechanics Laboratory					
6	CE 4293	General Civil Engineering (Environmental,	Industrial Waste Management Laboratory					
7	CE 4313	Geotechnical,	Pavement Analysis and Design Laboratory					
8	CE 4333	Transportation etc.)	Advanced Concrete Technology Laboratory					



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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

List of Program Elective (PE)-V

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







Rajarambapu Institute of Technology, Sakharale

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Curriculum Structure and Evaluation with effective from 2020-21 [2020-24 & 2021-25 Batch] Department of Civil Engineering

Track I: Industry Internship & Projects (IIP)

Class: Final Year B. Tech

Semester: VIII

Course Code	Course		Tead Sch	chin eme	_	Evaluation Scheme					
			Т	P	Credits	me	Theory (Marks)			Practical (Marks)	
		L				Scheme	Max.	Min. f		Max.	Min. for passing%
OE4381	Finance for Engineers (Online Course)	2	-	-	2	ISE	25	40	40		
						ESE	75	40			
OE4361	Engineering Management &	2			2	ISE	25	40	40		
	Economics (Online Course)					ESE	75	40			
TD 4022	Y . 1: 0 D		-	-	8	ISE				50	50
IP4023	Internship & Project	-			0	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.





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

Track II: Undergraduate Research Experience (URE)

Class: Final Year B. Tech

Semester: VIII

Course Code		Teaching Scheme				Evaluation Scheme						
	Course			P	Credits	Scheme	Theory (Marks)			Practical (Marks)		
		L	Т				Max.	Min. f		Max.	Min. for passing%	
OE4381	Finance for Engineers (Online Course)	2	-	-	2	ISE	25	40	40			
						ESE	75	40				
OE4361	Engineering Management &	2	_	-	2	ISE	25	40	40			
OE4301	Economics (Online Course)					ESE	75	40				
DE 40.42	Daniert		-	8	8	ISE				50	50	
RE4043	Research Project	-				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.



K.E. Society's Rajarambanu Institute of Techn

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

Track III: Entrepreneurship Development (ED)

Class: Final Year B. Tech

Semester: VIII

Course Code	Course		Teaching Scheme			Evaluation Scheme						
					Credits	Scheme	Theory (Marks)			Practical (Marks)		
		L	Т	P			Max		n. for ing%	Max	Min. for passing%	
						ISE	20					
ED 4102	Project Management	2*	-	-	2	UT-1	15	40	40			
ED4103						UT-2	15					
						ESE	50	40				
	Commercial Aspects of the Project	2*	1	-		ISE	20					
					2	UT-1	15	40	40			
ED4043						UT-2	15					
						ESE	50	40				
ED4063	Entrepreneurship Development Program (EDP)	-	-	-	1	ISE				100	50	
ED 4002	Entrepreneurship Development Project				7	ISE				50	50	
ED4083		-	-	7		ESE				50		
	Total			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.

