



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

Rev: CE/RIT/02/2020-24

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 %	
CE2033	Engineering Mechanics	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2053	Strength of Material	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2193	Professional Ethics, Values & Code of Conduct	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2213	Building Planning and Design	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2073	Surveying	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
SH2173	Environmental Science	1*	-	-	1	ISE	50	40	40	-	-
						ESE	50			40	-
CE2233	Building Planning and Design Laboratory	-	-	4	2	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE2113	Surveying Laboratory	-	-	2	1	ISE	-	-	--	50	50
						ESE	-	-	--	50	50
CE2133	Strength of Materials Laboratory	-	-	2	1	ISE	-	-	--	100	50
CE2153	Technical Aptitude-I	-	-	2	1	ISE	-	-	--	50	50
						ESE	-	-	--	50	50
CE2173	Engineering Mechanics Laboratory	-	-	2	1	ISE	-	-	--	100	50
SH2603	Environmental Science Project	-	-	2	1	ISE	-	-	--	100	50
	Open Elective –II Professional Skills Development & Foreign Languages Programme I	-	-	2	1	ISE	-	-	--	60	50
						ESE	-	-	--	40	50
TOTAL		15	0	16	23	-	-	-	-	-	-

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

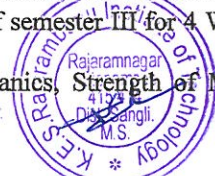
Total Contact Hours/week : 31

Total Credits : 23

Notes: *One extra lecture to be allotted to Environmental Science in Time Table.

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

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





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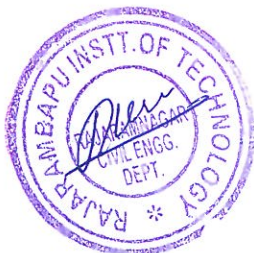
Open Elective –II

List of Professional Skills Development & Foreign Languages Programme I

Sr. No.	Subject Name		Course Code
1.	Professional Skills	Professional Leadership Skills	SH2633
2.	Development & Foreign Languages Programme I	Interpersonal Skills ('Jeevanvidya for Work Life Balance')	SH2613
3.		Innovation Tools and Methods for Entrepreneurs	SH2693
4.		Personal Effectiveness & Body Language	SH2593
5.		German Language – Basic Level	SH2733
6.		Japanese Language – Level III	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 –Level III' 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 Civil Engineering

Rev: CE/RIT/02/2020-24
Semester: IV

Class : S. 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%	
SH2063	Engineering Mathematics III	3	1	-	4	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2043	Concrete Technology	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2063	Fluid Mechanics	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2083	Mechanics of Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2123	Applications of Programming Language in Civil Engineering	-	-	2	1	ISE	-	-	50	50	
						ESE	-	-	50	50	
CE2143	Engineering Geology Laboratory	-	-	2	1	ISE	-	-	100	50	
CE2163	Fluid Mechanics Laboratory	-	-	2	1	ISE	-	-	100	50	
CE2183	Concrete Technology Laboratory	-	-	2	1	ISE	-	-	50	50	
						ESE	-	-	50	50	
CE2203	Technical Aptitude-II	-	-	2	1	ISE	-	-	50	50	
						ESE	-	-	50	50	
	Open Elective –III Professional Skills Development & Foreign Languages Programme II	-	-	2	1	ISE	-	-	60	50	
						ESE	-	-	40	50	
CE2223	Internship	**	-	-	2	ISE	-	-	100	50	
TOTAL		12	1	12	21	-	-	-	-	-	

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

Total Contact Hours/week : 25

Total Credits : 21

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

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





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Open Elective –III

List of Professional Skills Development & Foreign Languages Programme II

Sr. No.	Subject Name		Course Code
1.	Professional Skills	Professional Leadership Skills	SH2633
2.	Development & Foreign Languages Programme II	Interpersonal Skills ('Jeevanvidya for Work Life Balance')	SH2613
3.		Innovation Tools and Methods for Entrepreneurs	SH2693
4.		Personal Effectiveness & Body Language	SH2593
5.		German Language – Advanced Level	SH2643
6.		Japanese Language – Level IV	SH2623

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 –Level III' 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: CE/RIT/02/2020-24
 Semester: V

Class : 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%	
CE3013	Design of Steel Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			40	-
CE3033	Geotechnical Engineering	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			40	-
CE3053	Irrigation and Hydraulic Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			40	-
CE3073	Environmental Engineering	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			40	-
CE3093	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	-
CE3113	Geotechnical Engineering Laboratory	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE3133	Environmental Engineering Laboratory	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE3153	Transportation Engineering Laboratory	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
SH3033	Scholastic Aptitude -I	2*	-	-	2	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50				
CE3173	Technical Aptitude-III	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
SH3011	Indian Constitution	2	-	-	Audit	ISE	100	50	(P/N)	-	-
TOTAL		22	0	08	24	-	-	-	-	-	-

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

Total Contact Hours/week : 30

Total Credits : 24

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.



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List of Program Elective-PE I

Sr. No.	Course Code	Domain	Course
1	CE3193	Structural Engineering	Structural Analysis
2	CE3213		Composite Materials
3	CE3233	Construction Management	Construction Safety Management
4	CE3253		Construction Techniques
5	CE3273	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Advanced Water Treatment
6	CE3293		Tunnel Docks and Harbors Engineering
7	CE3313		Urban Transportation Systems





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Department of Civil Engineering

Rev: CE/RIT/02/2020-24
Semester: VI

Class : 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 %	
CE3023	Theory of Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE3043	Estimation & Contracts	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE3063	Construction Management	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	-	-	
SH3021	Biology for Engineers	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE3083	Estimation & Contracts Laboratory	-	-	4	2	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE3103	Design of Steel Structures Laboratory	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE3123	Technical Aptitude-IV	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE3143	Capstone Project Phase-I	-	-	2	2	ISE	-	-	-	100	50
SH304	Psychology for Engineers	1*	-	-	1	ISE	50	40	40	-	-
						ESE	50	40		-	-
SH3063	Scholastic Aptitude II	2*	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
TOTAL		20	00	12	26	-	-	-	-	-	-

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

Total Contact Hours/week : 32

Total Credits : 26

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

Note:

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



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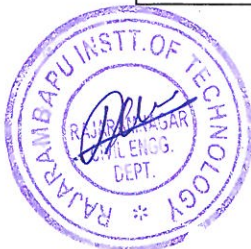
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List of Program Elective PE– II

Sr. No.	Course Code	Domain	Course
1	CE3163	Structural Engineering	Design of Industrial Structures
2	CE3183		Repair and Rehabilitation of Structures
3	CE3203	Construction Management	Construction Economics and Finance
4	CE3243	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Air Quality Monitoring and Modeling
5	CE3263		Railway and Airport Engineering
6	CE3283		Foundation Engineering
7	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
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
18	Civil	OE338	Disaster Management
19	CE&IT	OE340	Cyber Security





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Department of Civil Engineering

Rev: CE/RIT/02/2020-24
Semester: VII

Class : Final Year. 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 %	
CE4013	Design of Reinforced Concrete Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE4033	Construction Equipment and Methods	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE4473	Earthquake Engineering	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
	Program Elective PE- 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	-	-	
	Program Elective -V	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
	Program Elective -IV Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE4053	Design of Concrete Structures Laboratory	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE4493	Capstone Project Phase-II	-	-	4	4	ISE	-	-	-	100	50
						ESE	-	-	-	100	50
CE4073	Employment Enhancement Skills (Software in Civil Engg.)	-	-	2	1	ISE	-	-	-	100	50
TOTAL		16	0	14	23	-	-	-	-	-	-

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

Total Contact Hours/week : 30

Total Credits : 23

#Internal Practical Oral Examinations to be conducted





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List of Program Elective PE- III

Sr. No.	Course Code	Domain	Course
1	CE4353	Structural Engineering	Design of Bridges
2	CE4373		Design of Formwork
3	CE4393	Construction Management	Advanced Construction Equipment
4	CE4413	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Environmental Management System
5	CE4433		Geographical Information System (GIS)
6	CE4453		Metro Rail Technology

List of Program Elective (PE) - IV

Sr. No.	Course Code	Domain	Course
1	CE4093	Structural Engineering	Advanced Structural Design
2	CE4113		Pre-stressed Concrete structures
3	CE4133	Construction Management	Project Management
4	CE4153	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Rock Mechanics
5	CE4173		Industrial Waste Management
6	CE4193		Pavement Analysis and Design
7	CE4513		Advanced Concrete Technology

List of Program Elective (PE) - IV Lab

Sr. No.	Course Code	Domain	Course
1	CE4213	Structural Engineering	Advanced Structural Design Lab
2	CE4233		Pre-stressed Concrete structures Lab
3	CE4253	Construction Management	Project Management Lab
4	CE4273	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Rock Mechanics Lab
5	CE4293		Industrial Waste Management Lab
6	CE4313		Pavement Analysis and Design Lab
7	CE4333		Advanced Concrete Technology Lab





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List of Program Elective-V

Sr. No.	Course Code	Domain	Course
1	CE4533	Structural Engineering	Advanced Structural Analysis
2	CE4553		Finite Element Analysis
3	CE4573		Matrix Method of Structural Analysis
4	CE4593	Construction Management	Construction Resource Planning and Management
5	CE4613		Total Quality Management
6	CE4633	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Air Pollution and Control
7	CE4653		Fundamentals of Urban and Regional Planning
8	CE4673		Solid and Hazardous Waste management
9	CE4693		Photogrammetry Surveying
10	CE4713		Geo-informatics for Engineering
11	CE4733		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	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.





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

Rev: CE/RIT/02/2020-24

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	-	-
						UT1	15				
						UT2	15				
						ESE	50				
ED4043	Commercial Aspects of the Project	2*	-	-	2	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50				
ED4063	Entrepreneurship Development Program (EDP)	-	-	-	1	ISE	-	-	-	100	50
ED4083	Entrepreneurship Development Project	-	-	7	7	ISE	-	-	-	50	50
						ESE	-	-	-	50	
Total		04	-	07	12						

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

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.

