



K.E. Society's
Rajarambapu Institute of Technology, Sakharale
(An Autonomous Institute, affiliated to Shivaji University, Kolhapur)
Curriculum Structure and Evaluation Batch: 2018-2022
 To be implemented from **(2018-19)**

Rev: CE Course Structure/RIT/02/2018-19

Department : 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	
CE2012	Building Planning and Design	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	-	-	
CE2052	Strength of Material	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
SH2052	Engineering Mathematics III	3	1	-	4	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2072	Surveying	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
SH2172	Environmental Science	1*	-	-	1	ISE	50	40	40	-	-
						ESE	50			40	-
CE2092	Building Planning and Design lab	-	-	4	2	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE2112	Surveying Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE2132	Strength of Material lab	-	-	2	1	ISE	-	-	-	100	50
CE2152	Comprehensive Exam I	-	-	-	1	ESE	-	-	-	100	50
CE2172	Engineering Mechanics Lab	-	-	2	1	ISE	-	-	-	100	50
SH2602	Environment Project	-	-	2	1	ISE	-	-	-	100	50
SH****	Open Elective –II Choice Based Soft Skill Program-I	-	-	2	1	ISE	-	-	-	100	50
TOTAL		14	01	14	23	-	-	-	-	-	-

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

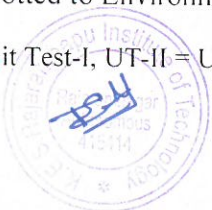
Total Contact Hours/week : 29

Total Credits : 23

Courses for Comprehensive Exam: Engg. Mathematics, Engg. Mechanics, Strength of Materials, Advanced Surveying

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

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





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Open Elective –II

List of Choice Based Soft Skill Program-I

Sr. No.	Course Code	Course
1	SH2592	Personal Effectiveness & Body Language
2	SH2612	Interpersonal Skills (Work life Balance)
3	SH2632	Leadership & Public Speaking
4	SH2692	Innovation Tools and Methods for Entrepreneurs
5	SH2732	German Language – Basic Level
6	SH2712	Japanese Language – Basic Level
7	SH2642	German Language – Advanced Level
8	SH2622	Japanese Language – Advanced Level

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 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 : Civil Engineering

Class : S. Y. B. Tech.

Semester: IV

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Cr	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max.	Min. for passing	Max	Min. for passing	
CE2022	Engineering Geology	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2042	Concrete Technology	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2062	Fluid Mechanics	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2082	Mechanics of Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2102	Human Values and Professional Ethics	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE2122	Applications of Programming Language in Civil Engineering	-	-	2	1	ISE	-	-	100	50	
CE2142	Engineering Geology Lab	-	-	2	1	ISE	-	-	100	50	
CE2162	Fluid mechanics Lab	-	-	2	1	ISE	-	-	100	50	
CE2182	Concrete Technology Lab	-	-	2	1	ISE	-	-	100	50	
CE2202	Comprehensive Exam II	-	-	-	1	ESE	-	-	100	50	
SH****	Open Elective –III Choice Based Soft Skill Program-II	-	-	2	1	ISE	-	-	100	50	
CE2222	Internship	-	-	-	2	ISE	-	-	100	50	
TOTAL		13	0	10	21	-	-	-	-	-	

Total Contact Hours/week : 23

Total Credits : 21

Courses for Comprehensive Exam: Mechanics of Structures, Fluid Mechanics, Concrete Technology

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Open Elective –III

List of Choice Based Soft Skill Program-II

Sr. No.	Course Code	Course
1	SH2592	Personal Effectiveness & Body Language
2	SH2612	Interpersonal Skills (Work life Balance)
3	SH2632	Leadership & Public Speaking
4	SH2692	Innovation Tools and Methods for Entrepreneurs
5	SH2642	German Language – Advanced Level
6	SH2622	Japanese Language – Advanced Level
7	SH2732	German Language – Basic Level
8	SH2712	Japanese Language – Basic Level

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 : Civil Engineering

Class : T. Y. B.Tech.

Semester: V

Course Code	Course	Teaching Scheme				Evaluation Scheme					
		L	T	P	Cr	Scheme	Theory (Marks %)		Practical (Marks %)		
							Max.	Min. for passing	Max.	Min. for passing	
CE3012	Design of Steel Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
CE3032	Geotechnical Engineering	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
CE3052	Irrigation and Hydraulic Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
CE3072	Environmental Engineering	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
CE3092	Transportation Engineering	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
CE****	Programme Elective - I	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15			-	-
						ESE	50			-	-
CE3112	Geotechnical Engineering lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE3132	Environmental Engineering lab	-	-	2	1	ISE	-	-	-	100	50
CE3152	Transportation Engineering lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
SH3032	Aptitude Training -I	2*	-	-	2	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50				
CE3172	Comprehensive Exam III	-	-	-	1	ESE	-	-	-	100	50
SH3012	Constitution of India (Mandatory Course)	2	-	-	Audit	ISE	100	40	-	-	-
TOTAL		22	00	06	24	-	-	-	-	-	-

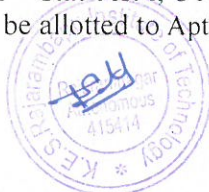
Total Contact Hours/week : 28

Total Credits : 24

Courses for Comprehensive Exam: Design of steel Structures, Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Hydrology & Irrigation Engineering

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





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List of Program Elective-PE I

Sr. No.	Course Code	Domain	Course
1	CE3192	Structural Engineering	Structural Analysis
2	CE3212		Composite Materials
3	CE3232	Construction Management	Construction Safety and Quality Management
4	CE3252		Advanced Construction Techniques
5	CE3272	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Instrumental Monitoring of Environment and Modeling
6	CE3292		Tunnel Engineering
7	CE3312		Urban Transportation Systems





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Department : Civil Engineering
Class : T. Y. B. Tech.

Semester: VI

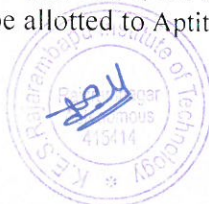
Course Code	Course	Teaching Scheme				Scheme	Evaluation Scheme				
		L	T	P	Cr		Theory (Marks %)		Practical (Marks %)		
							Max.	Min. for passing	Max.	Min. for passing	
CE3022	Theory of Structures	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE3042	Estimation & Costing	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE3062	Design of Reinforced Concrete Structures	4	-	-	4	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE****	Program Elective –II	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE****	Program Elective –III	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
SH3022	*Biology for Engineers	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE3082	Estimation & Costing Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE3102	Design of Steel Structures Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
CE3122	Comprehensive Exam IV	-	-	-	1	ESE	-	-	-	100	50
SH3052	Aptitude Training – II	2*	-	-	2	ISE	20	40	40	-	-
						UT1	15				
						UT2	15				
						ESE	50	40			
CE3142	Mini Project	-	-	2	1	ISE	-	-	-	100	50
TOTAL		20	00	06	24	-	-	-	-	-	-

*Compulsory Course

Total Contact Hours/week : 26
Total Credits : 24

Courses for Comprehensive Exam: Theory of Structures, Estimation & Costing, Construction Management
 ISE = In Semester Evaluation, UT-I = Unit Test-I, UT-II = Unit Test-II & ESE = End Semester Exam

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





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List of Program Elective PE– II

Sr. No.	Course Code	Domain	Course
1	CE3162	Structural Engineering	Design of Industrial Structures
2	CE3182		Repair and Rehabilitation of Structures
3	CE3202	Construction Management	Financial Management
4	CE3222		Disaster Preparedness and Planning
5	CE3242	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Air Quality Monitoring and Modeling
7	CE3262		Introduction to Railway and Bridge Engineering

List of Program Elective PE– III

Sr. No.	Course Code	Domain	Course
1	CE3282	Structural Engineering	Structural Dynamics
2	CE3302		Design of Bridges
3	CE3322		Design of Earthquake Resistant Structures
4	CE3342	Construction Management	Advance Construction Equipment
5	CE3362		Remote Sensing and Applications/Engineering economics
6	CE3382	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Environmental Management System
7	CE3402		Geographical Information System (GIS)
8	CE3422		Foundation Engineering
9	CE3442		Intelligent Transport System





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Department : Civil Engineering
Class : Final Year. B. Tech.

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	
CE4012	Construction Management	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE4032	Construction Equipments and Methods	2	-	-	2	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE****	Program Elective -IV	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
OE****	Open Elective -IV	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
CE****	Program Elective -IV Lab	-	-	2	1	ISE	-	-	-	-	-
						ESE	-	-	-	-	-
CE4052	Design of Concrete Structures Lab	-	-	2	1	ISE	-	-	-	50	50
						ESE	-	-	-	50	50
IP4012 RE4012 ED4012 CE4332	Phase I	-	-	2	1	ISE	-	-	-	100	50
CE4072	Employment Enhancement Skills (Software in Civil Engg.)	-	-	2	1	ISE	-	-	-	100	50
TOTAL		11	00	08	15	-	-	-	-	-	-

Total Contact Hours/week : 19
Total Credits : 15

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

Phase I

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	CE4332

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





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List of Program Elective (PE) - IV

Sr. No.	Course Code	Domain	Course
1	CE4092	Structural Engineering	Advanced Structural Analysis
2	CE4112		Finite Element Analysis
3	CE4132	Construction Management	Project Management
4	CE4152	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Rock Mechanics
5	CE4172		Industrial Waste Management
6	CE4192		Pavement Analysis and Design

List of Program Elective (PE) - IV Lab

Sr. No.	Course Code	Domain	Course
1	CE4212	Structural Engineering	Advanced Structural Analysis Lab
2	CE4232		Finite Element Analysis Lab
4	CE4252	Construction Management	Project Management Lab
5	CE4272	General Civil Engineering (Environmental, Geotechnical, Transportation etc.)	Rock Mechanics Lab
6	CE4292		Industrial Waste Management Lab
7	CE4312		Pavement Analysis and Design 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 : Civil Engineering Department

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	IPCE4002	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					

*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.

Total Contact Hours/week : --

Total Credits : 16

ISE = In Semester Evaluation, ESE = End Semester Exam

Notes:

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.
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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Track II: Undergraduate Research Experience (URE)

Department : Civil Engineering Department

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						

*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.

Total Contact Hours/week : 15

Total Credits : 16

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Note: Engineering Management is Compulsory online course.





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Track III: Entrepreneurship Development (ED)

Department : Civil Engineering Department

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	40			
2	ED4042	Commercial Aspects of the Project	3	-	-	3	ISE	20	40	40	-	-
							UT-1	15				
							UT-2	15				
							ESE	50	40			
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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 Curriculum Structure and Evaluation **Batch: 2018-2022**
 To be implemented from **(2018-19)**

Rev: CE Course Structure/RIT/02/2018-19

Track IV: Regular Capstone Project (CP)

Department : Civil Engineering Department

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	
CE****	Program Elective-V	3	-	-	3	ISE	20	40	40	-	-
						UT1	15			-	-
						UT2	15	-	-		
						ESE	50	40	-	-	
OE****	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	
CE4262	Capstone Project			8	8	ISE	-	-	-	50	
						ESE	-	-	-	50	
TOTAL		6	-	08	16						

* 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.

Total Contact Hours/week : 14

Total Credits : 16

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

Note: Engineering Management is Compulsory online course.





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List of Program Electives (Capstone project) for VIIIth Semester
List of Program Elective-V

Sr. No.	Course Code	Domain	Course
1	CE4042	Structural Engineering	Advanced Structural Design
2	CE4062		Pre-stressed Concrete structures
3	CE4082		Matrix Method of Structural Analysis
4	CE4102	Construction Management	Construction Resource Planning and Management
5	CE4122		Total Quality Management
6	CE4142	Environmental Engg (incl. General Civil Engg)	Air Pollution and Control
7	CE4162		Fundamentals of Urban and Regional Planning
8	CE4182		Solid and Hazardous Waste management
9	CE4202		Photogrammetry Surveying
10	CE4222		Geo-informatics for Engineering
11	CE4242		Docks, Harbors and Airport Engineering

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

