



Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **SEE** - Semester End Examination, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 1												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104101	Elements of Civil Engineering		4	3	0	2	60	40	30	20	150
2	303104104	Civil Engineering Drawings		2	0	0	4	-	-	30	20	50
3	303104105	Environmental Science		0	1	0	0	-	50	-	-	50
4	303105102	Programming for Problem Solving		4	3	0	2	60	40	30	20	150
5	303191101	Mathematics-I		4	4	0	0	60	40	-	-	100
6	303192101	Engineering Physics-I		4	3	0	2	60	40	30	20	150
7	303193103	Communication Skills		2	0	2	0	-	100	-	-	100
Total				20	14	2	10					750

Semester - 2												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303100101	Workshop		2	0	0	4	-	-	60	40	100
2	303104151	Computer Aided Civil Engineering Drawing		4	2	0	4	60	40	30	20	150
3	303104155	Mechanics of Solids		4	3	0	2	60	40	30	20	150
4	303104157	Disaster Preparedness and Planning		2	2	0	0	60	40	-	-	100
5	303104159	Surveying		5	3	0	4	60	40	30	20	150
6	303191151	Mathematics-II		4	4	0	0	60	40	-	-	100
7	303193152	Advanced Communication & Technical Writing		2	0	2	0	-	100	-	-	100
Total				23	14	2	14					850



Semester - 3												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104201	Material Testing and Evaluation		2	2	0	0	60	40	-	-	100
2	303104202	Material Testing and Evaluation Laboratory		2	0	0	4	-	-	30	20	50
3	303104203	Construction Technology		3	3	0	0	60	40	-	-	100
4	303104205	Introduction to Fluid Mechanics		3	3	0	0	60	40	-	-	100
5	303104206	Introduction to Fluid Mechanics Laboratory		1	0	0	2	-	-	30	20	50
6	303104207	Introduction to Solid Mechanics		3	3	0	0	60	40	-	-	100
7	303104208	Introduction to Solid Mechanics Laboratory		1	0	0	2	-	-	30	20	50
8	303104210	Product Realization		1	0	0	2	-	-	-	50	50
9	303191205	Advance Engineering Mathematics		4	4	0	0	60	40	-	-	100
10	303193203	Professional Communication Skills		2	0	2	0	-	100	-	-	100
Total				22	15	2	10					800

Semester - 4												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104251	Hydraulic Engineering		3	3	0	0	60	40	-	-	100
2	303104252	Hydraulic Engineering Laboratory		1	0	0	2	-	-	30	20	50
3	303104253	Mechanics of Materials		3	3	0	0	60	40	-	-	100
4	303104254	Mechanics of Materials Laboratory		1	0	0	2	-	-	30	20	50
5	303104255	Environmental Engineering		3	3	0	0	60	40	-	-	100
6	303104256	Environmental Engineering Laboratory		1	0	0	2	-	-	30	20	50
7	303104257	Geo-Technical Engineering		3	3	0	0	60	40	-	-	100
8	303104258	Geo-Technical Engineering Laboratory		1	0	0	2	-	-	30	20	50
9	303104259	Transportation Engineering		3	3	0	0	60	40	-	-	100
10	303104260	Transportation Engineering Laboratory		1	0	0	2	-	-	30	20	50
11	303193252	Professional Grooming and Personality Development		1	0	1	0	-	100	-	-	100
Total				21	15	1	10					850



Semester - 5												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104301	Design of Reinforced Concrete Structures		2	2	0	0	60	40	-	-	100
2	303104302	Design of Reinforced Concrete Structures Laboratory		2	0	0	4	-	-	30	20	50
3	303104303	Engineering Hydrology		3	3	0	0	60	40	-	-	100
4	303104304	Engineering Hydrology Laboratory		1	0	0	2	-	-	30	20	50
5	303104306	Summer Internship-1		2	0	0	0	-	-	-	100	100
6	303193304	Professionalism & Corporate Ethics		1	0	1	0	-	100	-	-	100
7		Open Elective 01		2	0	0	0	-	-	-	-	-
8		PEC 01-LAB		1	0	0	0	-	-	-	-	-
9		PEC 01		3	0	0	0	-	-	-	-	-
10		PEC 02		3	0	0	0	-	-	-	-	-
11		PEC 02-LAB		1	0	0	0	-	-	-	-	-
12		PEC 03		2	0	0	0	-	-	-	-	-
13		PEC 03-LAB		1	0	0	0	-	-	-	-	-
Total				24	5	1	6					500

Semester - 5 : Open Elective 01 (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303105305	Internet of Things		2	2	0	0	60	40	-	-	100
2	303109346	Renewable Energy Sources		2	2	0	0	60	40	-	-	100

Semester - 5 : PEC 01-LAB (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104312	Design of Water & Waste Water Treatment Systems Laboratory		1	0	0	2	-	-	30	20	50
2	303104314	Cleaner Production Laboratory		1	0	0	2	-	-	30	20	50
3	303104316	Pollution Monitoring and Legislation Laboratory		1	0	0	2	-	-	30	20	50
4	303104318	Environmental Microbiology Laboratory		1	0	0	2	-	-	30	20	50

Semester - 5 : PEC 01 (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104311	Design of Water & Waste Water Treatment Systems		3	3	0	0	60	40	-	-	100
2	303104313	Cleaner Production		3	3	0	0	60	40	-	-	100



3	303104315	Pollution Monitoring and Legislation		3	3	0	0	60	40	-	-	100
4	303104317	Environmental Microbiology		3	3	0	0	60	40	-	-	100

Semester - 5 : PEC 02 (Select any one of the course)

Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104321	Foundation Engineering		3	3	0	0	60	40	-	-	100
2	303104323	Rock Mechanics		3	3	0	0	60	40	-	-	100
3	303104325	Soil Mechanics		3	3	0	0	60	40	-	-	100
4	303104327	Environmental Geo-Technology		3	3	0	0	60	40	-	-	100

Semester - 5 : PEC 02-LAB (Select any one of the course)

Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104322	Foundation Engineering Laboratory		1	0	0	2	-	-	30	20	50
2	303104324	Rock Mechanics Laboratory		1	0	0	2	-	-	30	20	50
3	303104326	Soil Mechanics Laboratory		1	0	0	2	-	-	30	20	50
4	303104328	Environmental Geo-Technology Laboratory		1	0	0	2	-	-	30	20	50

Semester - 5 : PEC 03 (Select any one of the course)

Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104331	Traffic Engineering		2	2	0	0	60	40	-	-	100
2	303104333	Railway and Metro System		2	2	0	0	60	40	-	-	100
3	303104335	Airport and Dock Harbour		2	2	0	0	60	40	-	-	100
4	303104337	Road Safety Engineering		2	2	0	0	60	40	-	-	100

Semester - 5 : PEC 03-LAB (Select any one of the course)

Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104332	Traffic Engineering Laboratory		1	0	0	2	-	-	30	20	50
2	303104334	Railway and Metro Systems Laboratory		1	0	0	2	-	-	30	20	50
3	303104336	Airport and Dock Harbour Laboratory		1	0	0	2	-	-	30	20	50
4	303104338	Road Safety Engineering Laboratory		1	0	0	2	-	-	30	20	50



Semester - 6												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104351	Design of Steel Structures		2	2	0	0	60	40	-	-	100
2	303104352	Design of Steel Structures Laboratory		2	0	0	4	-	-	30	20	50
3	303104353	Estimation, Costing and Valuation		2	2	0	0	60	40	-	-	100
4	303104354	Estimation, Costing and Valuation Laboratory		2	0	0	4	-	-	30	20	50
5	303104356	Minor Project		1	0	0	0	-	-	100	100	200
6	303193353	Employability Skills		1	0	1	0	-	100	-	-	100
7		Open Elective 02		2	0	0	0	-	-	-	-	-
8		PEC 04		3	0	0	0	-	-	-	-	-
9		PEC 04-LAB		1	0	0	0	-	-	-	-	-
10		PEC 05		3	0	0	0	-	-	-	-	-
11		PEC 05-LAB		1	0	0	0	-	-	-	-	-
Total				20	4	1	8					600

Semester - 6 : Open Elective 02 (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303100351	Innovation and Entrepreneurship		2	2	0	0	-	100	-	-	100
2	303100352	Life Sciences		2	2	0	0	-	100	-	-	100
3	303100353	Fundamentals of Management		2	2	0	0	-	100	-	-	100
4	303100354	Constitution of India		2	2	0	0	-	100	-	-	100
5	303100355	Engineering Economics		2	2	0	0	-	100	-	-	100

Semester - 6 : PEC 04 (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104361	Ground Water Hydrology		3	3	0	0	60	40	-	-	100
2	303104363	River and Sedimentation Engineering		3	3	0	0	60	40	-	-	100
3	303104365	Open Channel Flow		3	3	0	0	60	40	-	-	100

Semester - 6 : PEC 04-LAB (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104362	Ground Water Hydrology Laboratory		1	0	0	2	-	-	30	20	50
2	303104364	River and Sedimentation Engineering Laboratory		1	0	0	2	-	-	30	20	50
3	303104366	Open Channel Flow Laboratory		1	0	0	2	-	-	30	20	50



Semester - 6 : PEC 05 (Select any one of the course)

Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104371	EIA and Audit		3	3	0	0	60	40	-	-	100
2	303104373	Advanced Structural Analysis		3	3	0	0	60	40	-	-	100
3	303104375	Geometric Design of Highways		3	3	0	0	60	40	-	-	100

Semester - 6 : PEC 05-LAB (Select any one of the course)

Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104372	EIA and Audit Laboratory		1	0	0	2	-	-	30	20	50
2	303104374	Advanced Structural Analysis Laboratory		1	0	0	2	-	-	30	20	50
3	303104376	Geometric Design of Highways Laboratory		1	0	0	2	-	-	30	20	50

Semester - 7

Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104401	Construction Project Management and Economics		3	3	0	0	60	40	-	-	100
2	303104402	Construction Project Management and Economics Laboratory		1	0	0	2	-	-	30	20	50
3	303104403	Water Resource Engineering		3	3	0	0	60	40	-	-	100
4	303104404	Water Resource Engineering Laboratory		1	0	0	2	-	-	30	20	50
5	303104406	MAJOR PROJECT-1		5	0	0	10	-	-	100	100	200
6	303104408	Summer Internship-2		2	0	0	0	-	-	-	100	100
7		PEC 06		2	0	0	0	-	-	-	-	-
8		PEC 06-LAB		1	0	0	0	-	-	-	-	-
9		PEC 07		2	0	0	0	-	-	-	-	-
10		PEC 07-LAB		1	0	0	0	-	-	-	-	-
11		PEC 08		2	0	0	0	-	-	-	-	-
12		PEC 08-LAB		1	0	0	0	-	-	-	-	-
Total				24	6	0	14					600

Semester - 7 : PEC 06 (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104411	Bridge Engineering		2	2	0	0	60	40	-	-	100
2	303104413	Soil & Ground Water Contamination		2	2	0	0	60	40	-	-	100
3	303104415	Pavement Design Evaluation		2	2	0	0	60	40	-	-	100
4	303104417	Green Sustainable Building		2	2	0	0	60	40	-	-	100

Semester - 7 : PEC 06-LAB (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104412	Bridge Engineering Laboratory		1	0	0	2	-	-	30	20	50
2	303104414	Soil & Ground Water Contamination Laboratory		1	0	0	2	-	-	30	20	50
3	303104416	Pavement Design Evaluation Laboratory		1	0	0	2	-	-	30	20	50
4	303104418	Green Sustainable Building Laboratory		1	0	0	2	-	-	30	20	50

Semester - 7 : PEC 07 (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104421	Environmental Chemistry		2	2	0	0	60	40	-	-	100
2	303104423	Engineering Geology		2	2	0	0	60	40	-	-	100
3	303104425	Pre-stressed Concrete Structure		2	2	0	0	60	40	-	-	100
4	303104427	Urban Transportation Planning		2	2	0	0	60	40	-	-	100

Semester - 7 : PEC 07-LAB (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104422	Environmental Chemistry Laboratory		1	0	0	2	-	-	30	20	50
2	303104424	Engineering Geology Laboratory		1	0	0	2	-	-	30	20	50
3	303104426	Pre-stressed Concrete Structure Laboratory		1	0	0	2	-	-	30	20	50
4	303104428	Urban Transportation Planning Laboratory		1	0	0	2	-	-	30	20	50

Semester - 7 : PEC 08 (Select any one of the course)												
Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104431	Earthquake Engineering		2	2	0	0	60	40	-	-	100
2	303104433	Ground Improvement Technique		2	2	0	0	60	40	-	-	100



3	303104435	Waste-water Recycle Management		2	2	0	0	60	40	-	-	100
4	303104437	Intelligent Transportation System		2	2	0	0	60	40	-	-	100

Semester - 7 : PEC 08-LAB (Select any one of the course)

Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104432	Earthquake Engineering Laboratory		1	0	0	2	-	-	30	20	50
2	303104434	Ground Improvement Technique Laboratory		1	0	0	2	-	-	30	20	50
3	303104436	Waste-water Recycle Management Laboratory		1	0	0	2	-	-	30	20	50
4	303104438	Intelligent Transportation System Laboratory		1	0	0	2	-	-	30	20	50

Semester - 8

Subjects					Contact Hours/Week			Theory Marks		Practical/Viva Marks		Total Marks
Sr.	Code	Name	Type	Credit	Lect	Tut	Lab	T	T	P	P	
1	303104454	Industrial Internship/Research Project		14	0	0	28	-	-	300	200	500
Total				14	0	0	28					500

Summary

Total No. of Subjects	Total No. of Subjects Offered (Including Electives)	Total Credits
72	121	168

Subject Type wise Credit Breakup

Sr.	Subject Type	Credits
1	Subject Without Subject Type	136.00
	Total Credits	136.00