

Semester - 1

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104102	Elements of Civil Engineering	4	3	2	0	20	20	20	60	30	40	25	150
203105101	Fundamentals of Programming	4	2	4	0	20	20	20	60	30	40	25	150
203109101	Engineering Graphics	4	2	4	0	20	20	20	60	30	40	25	150
203191101	Mathematics – I	5	3	0	2	20	-	20	60	-	40	-	100
203192103	Engineering Physics	4	3	2	0	20	20	20	60	30	40	25	150
203193101	Communication Skills - 1	2	0	0	2	-	-	100	-	-	40	-	100
	Total	23	13	12	4								800

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 2

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203100101	Workshop	2	0	4	0	-	40	-	-	60	-	50	100
203104103	Environmental Science	2	2	0	0	20	-	20	60	-	40	-	100
203104151	Mechanics of Solids	4	3	2	0	20	20	20	60	30	40	25	150
203106101	Basic Electrical Engineering	5	4	2	0	20	20	20	60	30	40	25	150
203109102	Elements of Mechanical Engineering	4	3	2	0	20	20	20	60	30	40	25	150
203191151	Mathematics-II	5	3	0	2	20	-	20	60	-	40	-	100
203193151	Communication Skills - 2	2	0	0	2	-	-	100	-	-	40	-	100
	Total	24	15	10	4								850

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 3

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104201	Computer Aided Civil Engineering Drawing	2	2	0	0	20	-	20	60	-	40	-	100
203104202	Computer Aided Civil Engineering Drawing Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203104203	Surveying	3	3	0	0	20	-	20	60	-	40	-	100
203104204	Surveying Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
203104205	Introduction to Fluid Mechanics	3	3	0	0	20	-	20	60	-	40	-	100
203104206	Introduction to Fluid Mechanics Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203104207	Introduction to Solid Mechanics	5	3	0	2	20	20	20	60	30	40	25	150
203104209	Material Testing and Evaluation	2	2	0	0	20	-	20	60	-	40	-	100
203104210	Material Testing and Evaluation Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203193201	Professional Communication Skills-1	2	1	0	1	-	-	100	-	-	40	-	100
	Total	23	14	12	3								850

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 4

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104251	Hydraulic Engineering	3	3	0	0	20	-	20	60	-	40	-	100
203104252	Hydraulic Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203104253	Mechanics of Materials	5	3	0	2	20	20	20	60	30	40	25	150
203104255	Instrumentation and Sensor Technologies for Civil Engineering Applications	2	2	0	0	20	-	20	60	-	40	-	100
203104256	Instrumentation and Sensor Technologies for Civil Engineering Applications Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203104257	Geo-technical Engineering	3	3	0	0	20	-	20	60	-	40	-	100
203104258	Geo-technical Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203191253	Advanced Engineering Mathematics	5	3	0	2	20	-	20	60	-	40	-	100
203193251	Professional Communication Skills-2	2	1	0	1	-	-	100	0	-	40	-	100
	Total	23	15	6	5								800

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 5 Open Elective 01

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203101346	Basic Aircraft Science	2	2	0	0	20	-	20	60	-	40	-	100
203104346	Disaster Preparedness and Planning	2	2	0	0	20	-	20	60	-	40	-	100
203105346	Cyber Security	2	2	0	0	20	-	20	60	-	40	-	100
203106346	Energy Science and Engineering	2	2	0	0	20	-	20	60	-	40	-	100
203107346	Fundamentals of Communication Engineering	2	2	0	0	20	-	20	60	-	40	-	100
203108346	Internet of Things	2	2	0	0	20	-	20	60	-	40	-	100
203109346	Renewable Energy Sources	2	2	0	0	20	-	20	60	-	40	-	100

Semester - 5

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104301	Environmental Engineering	3	3	0	0	20	-	20	60	-	40	-	100
203104302	Environmental Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203104303	Surface and Subsurface Hydrology	3	3	0	0	20	-	20	60	-	40	-	100
203104305	Structural Engineering	5	3	0	2	20	20	20	60	30	40	25	150
203104307	Transportation Engineering	3	3	0	0	20	-	20	60	-	40	-	100
203104309	Estimation, Costing and Valuation	5	3	0	2	20	20	20	60	30	40	25	150

Semester - 5

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203193301	Programming Skills and Placement Essentials (All Branches Except CSE/IT/ICT)	2	1	0	1	-	-	100	-	-	40	-	100
	Open Elective 01 (Compsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	100
	Total	24	18	2	5								850

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 6 Open Elective 02

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203100351	Life Science	2	2	0	0	60	-	40	-	-	40	-	100
203100352	Biology for Engineers	2	2	0	0	60	-	40	-	-	40	-	100
203100353	Engineering Geology	2	2	0	0	60	-	40	-	-	40	-	100
203100354	Landscape Planning and Design	2	2	0	0	60	-	40	-	-	40	-	100
203100355	Fundamentals of Management	2	2	0	0	60	-	40	-	-	40	-	100
203100356	Corporate Social Responsibility	2	2	0	0	60	-	40	-	-	40	-	100
203100357	Programme Management & Entrepreneurship	2	2	0	0	60	-	40	-	-	40	-	100
203100358	Constitution of India	2	2	0	0	60	-	40	-	-	40	-	100
203100359	Cyber Law & Ethics	2	2	0	0	60	-	40	-	-	40	-	100

Semester - 6 PEC 01

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104351	DESIGN OF STEEL STRUCTURES	4	3	0	1	20	20	20	60	30	40	25	150
203104353	MASONRY STRUCTURES	4	3	0	1	20	20	20	60	30	40	25	150

Semester - 6

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104355	Construction Project Management and Economics	3	3	0	0	20	-	20	60	-	40	-	100
203104356	Civil Engineering Tools and Techniques	2	0	4	0	-	40	-	-	60	-	50	100
	Open Elective 02 (Compulsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	100
	Open Elective 03 (Compulsory Subjects :1) -	2	1	0	1	-	-	-	-	-	-	-	100
	PEC 01 (Compulsory Subjects :1) -	4	3	0	1	-	-	-	-	-	-	-	150
	PEC 02 (Compulsory Subjects :1) -	4	3	0	1	-	-	-	-	-	-	-	150
	PEC 03 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 03-LAB (Compulsory Subjects :1) -	1	0	2	0	-	-	-	-	-	-	-	50
	PEC 04 (Compulsory Subjects :1) -	4	3	2	0	-	-	-	-	-	-	-	150
	Total	25	18	8	3								1000

Semester - 6 PEC 02

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104357	Airport Planning and Design	4	3	0	1	20	20	20	60	30	40	25	150
203104359	Railway Engineering	4	3	0	1	20	20	20	60	30	40	25	150
203104361	Port and Harbor Engineering	4	3	0	1	20	20	20	60	30	40	25	150

Semester - 6 PEC 03

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104363	Transport of Water and Waste Water	3	3	0	0	20	-	20	60	-	40	-	100
203104365	Water and Air Quality Modeling	3	3	0	0	20	-	20	60	-	40	-	100
203104367	Solid and Hazardous Waste Management	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 6 PEC 03-LAB

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104364	Transport of Water and Waste Water Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203104366	Water and Air Quality Modeling Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
203104368	Solid and Hazardous Waste Management Laboratory	1	0	2	0	-	20	-	-	30	-	25	50

Semester - 6 PEC 04

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104369	Soil Mechanics-I	4	3	2	0	20	20	20	60	30	40	25	150
203104371	Soil Mechanics-II	4	3	2	0	20	20	20	60	30	40	25	150

Semester - 6 Open Elective 03

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203193351	Advanced Programming and Placement Essentials (All Branches Except CSE/IT/ICT)	2	1	0	1	-	-	100	-	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50

Semester - 7 Open Elective 04

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104344	Engineering Mechanics	3	3	0	0	20	-	20	60	-	40	-	100
203104348	Metro System and Engineering	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 7 PEC 05

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104401	Industrial Structures	4	3	0	1	20	20	20	60	30	40	25	150
203104403	Earthquake Engineering	4	3	0	1	20	20	20	60	30	40	25	150

Semester - 7

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104402	Project-I	6	0	12	0	-	100	-	-	100	-	100	200
203104404	Summer Internship	2	0	0	0	-	100	-	-	-	-	50	100
	Open Elective 04 (Compulsory Subjects :1) -	3	3	0	0	-	-	-	-	-	-	-	100
	PEC 05 (Compulsory Subjects :1) -	4	3	0	1	-	-	-	-	-	-	-	150
	PEC 06 (Compulsory Subjects :1) -	4	3	0	1	-	-	-	-	-	-	-	150

Semester - 8 Open Elective 05

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104435	Concrete Technology	4	3	2	0	20	20	20	60	30	40	25	150
203104437	Finite Element Method	4	3	2	0	20	20	20	60	30	40	25	150

Semester - 8 PEC 07

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104441	Public Transportation System	4	3	0	1	20	20	20	60	30	40	25	150
203104443	Traffic Engineering and Management	4	3	0	1	20	20	20	60	30	40	25	150
203104445	Urban Transportation Planning	4	3	0	1	20	20	20	60	30	40	25	150
203104447	Geometric Design of Highways	4	3	0	1	20	20	20	60	30	40	25	150
203104449	Construction Cost Analysis	4	3	0	1	20	20	20	60	30	40	25	150
203104451	Sustainable Construction Method	4	3	0	1	20	20	20	60	30	40	25	150
203104453	Construction Equipment and Automation	4	3	0	1	20	20	20	60	30	40	25	150
203104455	Repair and Rehabilitation of Structure	4	3	0	1	20	20	20	60	30	40	25	150
203104457	Rural Water Supply and on site Sanitation System	4	3	0	1	20	20	20	60	30	40	25	150
203104459	Air and Noise Pollution Control	4	3	0	1	20	20	20	60	30	40	25	150
203104461	Environmental Impact Assessment & Life Cycle Analysis	4	3	0	1	20	20	20	60	30	40	25	150
203104463	Sustainable Engineering and Technology	4	3	0	1	20	20	20	60	30	40	25	150

Semester - 8 PEC 07

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104465	Design of Hydraulic Structure/Irrigation Engineering	4	3	0	1	20	20	20	60	30	40	25	150
203104467	Pipeline Engineering	4	3	0	1	20	20	20	60	30	40	25	150

Semester - 8

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104452	Project-II	6	0	12	0	-	100	-	-	100	-	100	200
	Open Elective 05 (Compulsory Subjects :1) -	4	3	2	0	-	-	-	-	-	-	-	150
	PEC 07 (Compulsory Subjects :1) -	4	3	0	1	-	-	-	-	-	-	-	150
	PEC 08 (Compulsory Subjects :1) -	4	3	0	1	-	-	-	-	-	-	-	150
	Total	18	9	14	2								650

Semester - 8 PEC 08

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104469	River Engineering	4	3	0	1	20	20	20	60	30	40	25	150
203104471	Urban Hydrology and Hydraulics	4	3	0	1	20	20	20	60	30	40	25	150

Semester - 8 PEC 08

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104473	Water Quality Engineering	4	3	0	1	20	20	20	60	30	40	25	150
203104475	Surface Hydrology	4	3	0	1	20	20	20	60	30	40	25	150
203104477	Environmental Fluid Mechanics	4	3	0	1	20	20	20	60	30	40	25	150
203104479	Water Resource and Field Methods	4	3	0	1	20	20	20	60	30	40	25	150
203104481	Geotechnical Design	4	3	0	1	20	20	20	60	30	40	25	150
203104483	Structural Geology	4	3	0	1	20	20	20	60	30	40	25	150
203104485	Off-shore Engineering	4	3	0	1	20	20	20	60	30	40	25	150
203104487	Rock Mechanics	4	3	0	1	20	20	20	60	30	40	25	150
203104489	Bridge Design	4	3	0	1	20	20	20	60	30	40	25	150
203104491	Prestressed Concrete	4	3	0	1	20	20	20	60	30	40	25	150
203104493	Civil Engineering Design-I	4	3	0	1	20	20	20	60	30	40	25	150
203104495	Civil Engineering Design-II	4	3	0	1	20	20	20	60	30	40	25	150

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
 Theory Passing % : 40 Practical Passing % : 50