



## 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.	
303104101	Elements of Civil Engineering	4	3	2	0	20	20	20	60	30	40	25	150
303104104	Civil Engineering Drawings	2	0	4	0	-	20	-	-	30	-	25	50
303104105	Environmental Science	0	1	0	0	-	-	50	-	-	20	-	50
303105102	Programming for Problem Solving	4	3	2	0	20	20	20	60	30	40	25	150
303191101	Mathematics-I	4	4	-	-	20	-	20	60	-	40	-	100
303192101	Engineering Physics-I	4	3	2	-	20	20	20	60	30	40	25	150
303193103	Communication Skills	2	-	-	2	-	-	100	-	-	40	-	100
	Total	20	14	10	2								750

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



Semester - 2

						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.	
303100101	Workshop	2	0	4	0	-	40	-	-	60	-	50	100
303104151	Computer Aided Civil Engineering Drawing	4	2	4	0	20	20	20	60	30	40	25	150
303104155	Mechanics of Solids	4	3	2	0	20	20	20	60	30	40	25	150
303104157	Disaster Preparedness and Planning	2	2	0	0	20	-	20	60	-	40	-	100
303104159	Surveying	5	3	4	0	20	20	20	60	30	40	25	150
303191151	Mathematics-II	4	4	-	-	20	-	20	60	-	40	-	100
303193152	Advanced Communication & Technical Writing	2	-	-	2	-	-	100	-	-	40	-	100
	Total	23	14	14	2								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.	
303104201	Material Testing and Evaluation	2	2	0	0	20	-	20	60	-	40	-	100
303104202	Material Testing and Evaluation Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
303104203	Construction Technology	3	3	0	0	20	-	20	60	-	40	-	100
303104205	Introduction to Fluid Mechanics	3	3	0	0	20	-	20	60	-	40	-	100
303104206	Introduction to Fluid Mechanics Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104207	Introduction to Solid Mechanics	3	3	0	0	20	-	20	60	-	40	-	100
303104208	Introduction to Solid Mechanics Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104210	Product Realization	1	0	2	0	-	50	-	-	-	-	25	50
303191205	Advance Engineering Mathematics	4	4	-	-	20	-	20	60	-	40	-	100
303193203	Professional Communication Skills	2	-	-	2	-	-	100	-	-	40	-	100
	<b>Total</b>	<b>22</b>	<b>15</b>	<b>10</b>	<b>2</b>								<b>800</b>

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



Semester - 4

						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.	
303104251	Hydraulic Engineering	3	3	0	0	20	-	20	60	-	40	-	100
303104252	Hydraulic Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104253	Mechanics of Materials	3	3	0	0	20	-	20	60	-	40	-	100
303104254	Mechanics of Materials Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104255	Environmental Engineering	3	3	0	0	20	-	20	60	-	40	-	100
303104256	Environmental Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104257	Geo-Technical Engineering	3	3	0	0	20	-	20	60	-	40	-	100
303104258	Geo-Technical Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104259	Transportation Engineering	3	3	0	0	20	-	20	60	-	40	-	100
303104260	Transportation Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303193252	Professional Grooming and Personality Development	1	-	-	1	-	-	100	-	-	40	-	100
	<b>Total</b>	<b>21</b>	<b>15</b>	<b>10</b>	<b>1</b>								<b>850</b>

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



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.	
303104301	Design of Reinforced Concrete Structures	2	2	0	0	20	-	20	60	-	40	-	100
303104302	Design of Reinforced Concrete Structures Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
303104303	Engineering Hydrology	3	3	0	0	20	-	20	60	-	40	-	100
303104304	Engineering Hydrology Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104306	Summer Internship-1	2	0	0	0	-	100	-	-	-	-	50	100
303193304	Professionalism & Corporate Ethics	1	-	-	1	-	-	100	-	-	40	-	100
	Open Elective 01	2	-	-	-	-	-	-	-	-	-	-	
	PEC 01-LAB	1	-	-	-	-	-	-	-	-	-	-	
	PEC 01	3	-	-	-	-	-	-	-	-	-	-	
	PEC 02	3	-	-	-	-	-	-	-	-	-	-	
	PEC 02-LAB	1	-	-	-	-	-	-	-	-	-	-	
	PEC 03	2	-	-	-	-	-	-	-	-	-	-	
	PEC 03-LAB	1	-	-	-	-	-	-	-	-	-	-	
	<b>Total</b>	<b>24</b>	<b>5</b>	<b>6</b>	<b>1</b>								<b>500</b>

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.	
303105305	Internet of Things	2	2	0	0	20	-	20	60	-	40	-	100



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.	
303109346	Renewable Energy Sources	2	2	0	0	20	-	20	60	-	40	-	100

Semester - 5 : PEC 01-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.	
303104312	Design of Water & Waste Water Treatment Systems Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104314	Cleaner Production Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104316	Pollution Monitoring and Legislation Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104318	Environmental Microbiology Laboratory	1	0	2	0	-	20	-	-	30	-	25	50

Semester - 5 : 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.	
303104311	Design of Water & Waste Water Treatment Systems	3	3	0	0	20	-	20	60	-	40	-	100
303104313	Cleaner Production	3	3	0	0	20	-	20	60	-	40	-	100
303104315	Pollution Monitoring and Legislation	3	3	0	0	20	-	20	60	-	40	-	100
303104317	Environmental Microbiology	3	3	0	0	20	-	20	60	-	40	-	100



Semester - 5 : 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.	
303104321	Foundation Engineering	3	3	0	0	20	-	20	60	-	40	-	100
303104323	Rock Mechanics	3	3	0	0	20	-	20	60	-	40	-	100
303104325	Soil Mechanics	3	3	0	0	20	-	20	60	-	40	-	100
303104327	Environmental Geo-Technology	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 5 : PEC 02-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.	
303104322	Foundation Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104324	Rock Mechanics Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104326	Soil Mechanics Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104328	Environmental Geo-Technology Laboratory	1	0	2	0	-	20	-	-	30	-	25	50

Semester - 5 : 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.	
303104331	Traffic Engineering	2	2	0	0	20	-	20	60	-	40	-	100
303104333	Railway and Metro System	2	2	0	0	20	-	20	60	-	40	-	100



Semester - 5 : 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.	
303104335	Airport and Dock Harbour	2	2	0	0	20	-	20	60	-	40	-	100
303104337	Road Safety Engineering	2	2	0	0	20	-	20	60	-	40	-	100

Semester - 5 : 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.	
303104332	Traffic Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104334	Railway and Metro Systems Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104336	Airport and Dock Harbour Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104338	Road Safety Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50

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**Theory Passing % : 40 Practical Passing % : 50**

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.	
303104351	Design of Steel Structures	2	2	0	0	20	-	20	60	-	40	-	100
303104352	Design of Steel Structures Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
303104353	Estimation, Costing and Valuation	2	2	0	0	20	-	20	60	-	40	-	100
303104354	Estimation, Costing and Valuation Laboratory	2	0	4	0	-	20	-	-	30	-	25	50
303104356	Minor Project	1	0	0	0	-	100	-	-	100	-	100	200
303193353	Employability Skills	1	-	-	1	-	-	100	-	-	40	-	100
	Open Elective 02	2	-	-	-	-	-	-	-	-	-	-	
	PEC 04	3	-	-	-	-	-	-	-	-	-	-	
	PEC 04-LAB	1	-	-	-	-	-	-	-	-	-	-	
	PEC 05	3	-	-	-	-	-	-	-	-	-	-	
	PEC 05-LAB	1	-	-	-	-	-	-	-	-	-	-	
	<b>Total</b>	<b>20</b>	<b>4</b>	<b>8</b>	<b>1</b>								<b>600</b>

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.	
303100351	Innovation and Entrepreneurship	2	2	-	-	60	-	40	-	-	40	-	100
303100352	Life Sciences	2	2	-	-	60	-	40	-	-	40	-	100
303100353	Fundamentals of Management	2	2	-	-	60	-	40	-	-	40	-	100

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.	
303100354	Constitution of India	2	2	-	-	60	-	40	-	-	40	-	100
303100355	Engineering Economics	2	2	-	-	60	-	40	-	-	40	-	100

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.	
303104361	Ground Water Hydrology	3	3	0	0	20	-	20	60	-	40	-	100
303104363	River and Sedimentation Engineering	3	3	0	0	20	-	20	60	-	40	-	100
303104365	Open Channel Flow	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 6 : PEC 04-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.	
303104362	Ground Water Hydrology Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104364	River and Sedimentation Engineering Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104366	Open Channel Flow Laboratory	1	0	2	0	-	20	-	-	30	-	25	50



Semester - 6 : 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.	
303104371	EIA and Audit	3	3	0	0	20	-	20	60	-	40	-	100
303104373	Advanced Structural Analysis	3	3	0	0	20	-	20	60	-	40	-	100
303104375	Geometric Design of Highways	3	3	0	0	20	-	20	60	-	40	-	100

Semester - 6 : PEC 05-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.	
303104372	EIA and Audit Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104374	Advanced Structural Analysis Laboratory	1	0	2	0	-	20	-	-	30	-	25	50
303104376	Geometric Design of Highways Laboratory	1	0	2	0	-	20	-	-	30	-	25	50

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



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.	
303104401	Construction Project Management and Economics	3	3	-	-	20	-	20	60	-	40	-	100
303104402	Construction Project Management and Economics Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
303104403	Water Resource Engineering	3	3	-	-	20	-	20	60	-	40	-	100
303104404	Water Resource Engineering Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
303104406	MAJOR PROJECT-1	5	-	10	-	-	100	-	-	100	-	100	200
303104408	Summer Internship-2	2	-	-	-	-	100	-	-	-	-	50	100
	PEC 06	2	-	-	-	-	-	-	-	-	-	-	
	PEC 06-LAB	1	-	-	-	-	-	-	-	-	-	-	
	PEC 07	2	-	-	-	-	-	-	-	-	-	-	
	PEC 07-LAB	1	-	-	-	-	-	-	-	-	-	-	
	PEC 08	2	-	-	-	-	-	-	-	-	-	-	
	PEC 08-LAB	1	-	-	-	-	-	-	-	-	-	-	
	<b>Total</b>	<b>24</b>	<b>6</b>	<b>14</b>									<b>600</b>

Semester - 7 : PEC 06

						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.	
303104411	Bridge Engineering	2	2	-	-	20	-	20	60	-	40	-	100
303104413	Soil & Ground Water Contamination	2	2	-	-	20	-	20	60	-	40	-	100



Semester - 7 : PEC 06

						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.	
303104415	Pavement Design Evaluation	2	2	-	-	20	-	20	60	-	40	-	100
303104417	Green Sustainable Building	2	2	-	-	20	-	20	60	-	40	-	100

Semester - 7 : PEC 06-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.	
303104412	Bridge Engineering Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
303104414	Soil & Ground Water Contamination Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
303104416	Pavement Design Evaluation Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
303104418	Green Sustainable Building Laboratory	1	-	2	-	-	20	-	-	30	-	25	50

Semester - 7 : 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.	
303104421	Environmental Chemistry	2	2	-	-	20	-	20	60	-	40	-	100
303104423	Engineering Geology	2	2	-	-	20	-	20	60	-	40	-	100
303104425	Pre-stressed Concrete Structure	2	2	-	-	20	-	20	60	-	40	-	100
303104427	Urban Transportation Planning	2	2	-	-	20	-	20	60	-	40	-	100

Semester - 7 : PEC 07-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.	
303104422	Environmental Chemistry Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
303104424	Engineering Geology Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
303104426	Pre-stressed Concrete Structure Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
303104428	Urban Transportation Planning Laboratory	1	-	2	-	-	20	-	-	30	-	25	50

Semester - 7 : 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.	
303104431	Earthquake Engineering	2	2	-	-	20	-	20	60	-	40	-	100
303104433	Ground Improvement Technique	2	2	-	-	20	-	20	60	-	40	-	100
303104435	Waste-water Recycle Management	2	2	-	-	20	-	20	60	-	40	-	100
303104437	Inteligent Transportation System	2	2	-	-	20	-	20	60	-	40	-	100

Semester - 7 : PEC 08-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.	
303104432	Earthquake Engineering Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
303104434	Ground Improvement Technique Laboratory	1	-	2	-	-	20	-	-	30	-	25	50



Semester - 7 : PEC 08-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.	
303104436	Waste-water Recycle Management Laboratory	1	-	2	-	-	20	-	-	30	-	25	50
303104438	Intelligent Transportation System Laboratory	1	-	2	-	-	20	-	-	30	-	25	50

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**Theory Passing % : 40 Practical Passing % : 50**



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.	
303104454	Industrial Internship/Research Project	14	-	28	-	-	200	-	-	300	-	250	500
	Total	14		28									500

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