

B.E.-CIVIL ENGINEERING

Total Credits to be earned for the award of the Degree: 184

Full Time Curriculum and Syllabus

SEMESTER I										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CIA	ES	Total		
Theory Course										
1701MA101	Engineering Mathematics I	3	2	-	4	40	60	100	BS	
1701PH101	Applied Physics For Engineers	3	-	-	3	40	60	100	BS	
1701CH103	Water Technology & Green Chemistry	3	-	-	3	40	60	100	BS	
1701EN101	Technical English	3	-	-	3	40	60	100	HS	
1701GE104	Fundamental Of Mechanical Engineering	2	-	2	3	40	60	100	ES	
1701GEX06	Engineering Mechanics	2	2	-	3	40	60	100	ES	
Laboratory Course										
1701GEX54	Workshop Practice	-	-	2	1	50	50	100	ES	
1701PH151	Physics / Chemistry Lab I	-	-	2	1	50	50	100	BS	
Total		16	04	06	21	-	-	-	-	

SEMESTER II										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CIA	ES	Total		
Theory Course										
1701MA201	Engineering Mathematics II	3	2	-	4	40	60	100	BS	
1701PH204	Material Science	3	-	-	3	40	60	100	BS	
1701CH201	Environmental Studies	3	-	-	3	40	60	100	BS	
	Language Elective	3	-	-	3	100	00	100	HS	
1701GEX01	Basic Electrical And Electronics Engineering	3	-	-	3	40	60	100	ES	
1701GEX08	Programming In 'C'	3	-	-	3	40	60	100	ES	
1701GEX07	Engineering Graphics	2	2	-	3	50	50	100	ES	
Laboratory Course										
1701PH251	Physics / Chemistry Lab II	-	-	2	1	50	50	100	BS	
17GEX53	Communication Skill Lab	-	-	2	1	50	50	100	HS	
1701GEX52	Programming In 'C' Lab	-	-	2	1	50	50	100	ES	
Total		20	06	6	25	-	-	-	-	

SEMESTER III										
Course Code	Course Name	L	T	P	C	Maximum Marks			Category	
						CIA	ES	Total		
Theory Course										
1701MA301	Engineering Mathematics III	3	2	-	4	40	60	100	BS	
1702CE301	Engineering Surveying I	3	-	-	3	40	60	100	PC	
1702CE302	Solid Mechanics I	3	-	-	3	40	60	100	PC	
1702CE303	Fluid Mechanics	3	-	-	3	40	60	100	PC	
1702CE304	Engineering Geology	3	-	-	3	40	60	100	PC	
1702CE305	Building Materials And Management	3	-	-	3	40	60	100	PC	
Laboratory Course										
1702CE351	Surveying Lab I	-	-	4	2	50	50	100	PC	
1702CE352	Strength Of Materials Lab	-	-	2	1	50	50	100	PC	
1704CE353	Technical Seminar I	-	-	2	1	50	50	100	EEC	
1704GE351	Life Skills: Business English	-	-	2	-	100	-	100	EEC	
Total		18	2	10	23	-	-	-	-	

SEMESTER IV									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1701MA403	Numerical Methods And Statistics	3	2	-	4	40	60	100	BS
1702CE401	Engineering Surveying II	3	-	-	3	40	60	100	PC
1702CE402	Solid Mechanics II	3	-	-	3	40	60	100	PC
1702CE403	Applied Hydraulic Engineering	3	-	-	3	40	60	100	PC
1702CE404	Geotechnical Engineering I	3	-	-	3	40	60	100	PC
1702CE405	Transportation Engineering	3	-	-	3	40	60	100	PC
Laboratory Course									
1702CE451	Hydraulic Engineering Lab	-	-	2	1	50	50	100	PC
1702CE452	Geotechnical Engineering Lab	-	-	2	1	50	50	100	PC
1702CE453	Surveying Lab II	-	-	2	1	50	50	100	PC
1704CE454	Technical Seminar II	-	-	2	1	50	50	100	EEC
1704GE451	Life Skills: Verbal Ability	-	-	2	-	100	-	100	EEC
Total		18	2	10	23	-	-	-	-

SEMESTER V									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1702CE501	Structural Analysis I	3	2	-	4	40	60	100	PC
1702CE502	Concrete Structures I	3	-	-	3	40	60	100	PC
1702CE503	Concrete Technology	3	-	-	3	40	60	100	HS
1702CE504	Geotechnical Engineering II	3	-	-	3	40	60	100	PC
	Elective I	3	-	-	3	40	60	100	PE
	Elective II	3	-	-	3	40	60	100	PE
Laboratory Course									
1702CE551	Computer Aided Building And Drawing Lab	-	-	4	2	40	60	100	PC
1702CE552	Survey Camp*	-	-	-	1	100	-	100	PC
1704CE553	Mini Project I	-	-	2	1	100	-	100	PC
1704GE551	Life Skills: Aptitude I	-	-	2	1	100	-	100	EEC
Total		18	4	08	24	-	-	-	-

SEMESTER VI									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CI A	ES	Total	
Theory Course									
1702CE601	Structural Analysis II	3	2	-	4	40	60	100	PC
1702CE602	Concrete Structures II	3	-	-	3	40	60	100	PC
1702CE603	Design Of Steel Structures	3	-	-	3	40	60	100	PC
1702CE604	Water Supply Engineering	3	-	-	3	40	60	100	PC
	Elective III	3	-	-	3	40	60	100	PE
	Elective IV (Open)	3	-	-	3	40	60	100	PE
Laboratory Course									
1702CE651	Concrete And Highway Engineering Lab	-	-	2	1	50	50	100	PC

1702CE652	Environmental And Irrigation Design And Drawing	-	-	4	2	50	50	100	PC
1704GE651	Life Skills: Aptitude II	-	-	2	-	100	-	100	EEC
17 CE653	Mini Project II	-	-	2	1	100	-	100	PC
17 CE654	Industrial Visit / Presentation	-	-	-	1				
Total		4	-	10	26				

SEMESTER VII									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
1702CE701	Quantity Surveying & Cost Estimation	3	-	-	3	40	60	100	PC
1702CE702	Waste Water Engineering	3	-	-	3	40	60	100	PC
1702CE703	Structural Dynamics And Earth Quake Engineering	3	-	-	3	40	60	100	PC
17 MGX01	Professional Ethics	2	-	-	2	40	60	100	HS
	Elective V	3	-	-	3	40	60	100	PE
	Elective VI (Open)	3	-	-	3	40	60	100	PE
Laboratory Course									
1702CE751	Computer Aided Design And Drafting Lab	-	-	4	2	50	50	100	PC
1702CE752	Water And Waste Water Engineering Lab	-	-	2	1	50	50	100	PC
17CE753	Mini Project III	-	-	2	1	100	-	100	PC
17GE751	Be prepared to Ace the Technical Skills in Competitive exams	2	-	0	2	100	-	100	EEC
17CE754	In plant Training / Internship Presentation	0	0	0	1				
Total		20	-	10	24	-	-	-	-

SEMESTER VIII									
Course Code	Course Name	L	T	P	C	Maximum Marks			Category
						CIA	ES	Total	
Theory Course									
	Elective VII	3	-	-	3	40	60	100	PE
	Elective VIII	3	-	-	3	40	60	100	PE
	ELECTIVE IX	3	-	-	3	40	60	100	PE
Laboratory Course									
1702CE851	Project	-	-	18	9	50	50	100	PC
Total		09	-	18	18	-	-	-	-

List of Programme Electives for B.E – Civil Engineering

LIST OF ELECTIVES

ELECTIVE I

Course Code	Course Name	L	T	P	C	Max. Marks 100		
						CA	SE	TOT
1703CE001	Remote Sensing And GIS	3	-	-	3	40	60	100
1703CE002	Ground Improvement Techniques	3	-	-	3	40	60	100
1703CE003	Soil Dynamics And Machine Foundation	3	-	-	3	40	60	100
1703CE004	Advanced Geotechnical Engineering	3	-	-	3	40	60	100

ELECTIVE II

Course Code	Course Name	L	T	P	C	Max. Marks 100		
						CA	SE	TOT
1703CE005	Industrial Pollution Prevention And Cleaner Production	3	-	-	3	40	60	100
1703CE006	Solid Waste Management	3	-	-	3	40	60	100
1703CE007	Environmental Impact Assessment	3	-	-	3	40	60	100
1703CE008	Air Pollution Control And Management	3	-	-	3	40	60	100

ELECTIVE III

Course Code	Course Name	L	T	P	C	Max. Marks 100		
						CA	SE	TOT
1703CE009	Ground Water Engineering	3	-	-	3	40	60	100
1703CE010	Coastal Zone Management	3	-	-	3	40	60	100
1703CE011	Noise Pollution And Its Control	3	-	-	3	40	60	100
1703CE012	Advanced Waste Water Treatment Design	3	-	-	3	40	60	100

ELECTIVE V

Course Code	Course Name	L	T	P	C	Max. Marks 100		
						CA	SE	TOT
1703CE013	Bridge Engineering	3	-	-	3	40	60	100
1703CE014	Finite Element Methods	3	-	-	3	40	60	100
1703CE015	Pre-Stressed Concrete	3	-	-	3	40	60	100
1703CE016	Advanced Structural Analysis	3	-	-	3	40	60	100

ELECTIVE VII

Course Code	Course Name	L	T	P	C	Max. Marks 100		
						CA	SE	TOT
1703CE017	Design Of Advanced Concrete Structures	3	-	-	3	40	60	100

1703CE018	Computer Analysis Of Structures	3	-	-	3	40	60	100
1703CE019	Storage And Industrial Structures	3	-	-	3	40	60	100
1703CE020	Advanced Design And Construction Of Pavements	3	-	-	3	40	60	100

ELECTIVE VIII

Course Code	Course Name	L	T	P	C	Max. Marks 100		
						CA	SE	TOT
1703CE021	Repair And Rehabilitation Of Structures	3	-	-	3	40	60	100
1703CE022	Tall Structures	3	-	-	3	40	60	100
1703CE023	Contract Law And Regulations	3	-	-	3	40	60	100
1703CE024	Pre-Fabricated Structures	3	-	-	3	40	60	100

ELECTIVE IX

Course Code	Course Name	L	T	P	C	Max. Marks 100		
						CA	SE	TOT
1703CE025	Traffic Engineering And Management	3	-	-	3	40	60	100
1703CE026	Construction Project Management	3	-	-	3	40	60	100
1703CE027	Architecture And Town Planning	3	-	-	3	40	60	100
1703CE028	Natural Disaster Mitigation And Management	3	-	-	3	40	60	100