

GRBT – 17

COURSE STRUCTURE B. Tech. Civil Engineering

I Year			I Semester						
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	17198101	English – I	3	1	-	3	40	60	100
2.	17198102	Mathematics-I	3	1	-	3	40	60	100
3.	17195103	Computer Programming	3	1	-	3	40	60	100
4.	17198104	Engineering Physics	3	1	-	3	40	60	100
5.	17198105	Environmental Studies	3	1	-	3	40	60	100
6.	17193176	Engineering Drawing	1	-	3	3	40	60	100
7.	17198111	English Communication skills Lab I	-	-	3	2	50	50	100
8.	17198112	Engineering Physics Lab	-	-	3	2	50	50	100
9.	17195113	Computer Programming Lab	-	-	3	2	50	50	100
Total			16	5	12	24	390	510	900

COURSE STRUCTURE B. Tech. Civil Engineering

I Year			II Semester						
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	17198201	English – II	3	1	-	3	40	60	100
2.	17198202	Mathematics-II	3	1	-	3	40	60	100
3.	17198203	Mathematics-III	3	1	-	3	40	60	100
4.	17198204	Engineering Chemistry	3	1	-	3	40	60	100
5.	17193205	Engineering Mechanics	3	1	-	3	40	60	100
6.	17198206	Professional Ethics and human values	1	2	-	1	40	60	100
7.	17198211	English Communication skills Lab II	-	-	3	2	50	50	100
8.	17198213	Engineering Chemistry Lab	-	-	3	2	50	50	100
9.	17198281	Engineering work shop & IT work shop	-	-	3	2	50	50	100
Total			16	7	9	22	390	510	900

COURSE STRUCTURE B. Tech. Civil Engineering

II Year						I Semester			
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	17112301	Basic Electrical & Electronics Engineering	3	1	-	3	40	60	100
2.	17110302	Building Materials and Constructions	3	1	-	3	40	60	100
3.	17110303	Building Planning & Drawing	1	-	3	3	40	60	100
4.	17110304	Strength of Materials-I	3	1	-	3	40	60	100
5.	17110305	Surveying	3	1	-	3	40	60	100
6.	17110306	Fluid Mechanics	3	1	-	3	40	60	100
7.	17110311	Surveying - Field Work	-	-	3	2	50	50	100
8.	17110312	Strength of Materials Lab	-	-	3	2	50	50	100
9.	17110313	Building Drawing using Auto CAD	1	-	3	2	50	50	100
Total			17	5	12	24	390	510	900

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II Year						II Semester			
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	17119401	Statistics through R - Programming	3	1	-	3	40	60	100
2.	17110402	Strength of Materials-II	3	1	-	3	40	60	100
3.	17110403	Hydraulics and Hydraulic Machinery	3	1	-	3	40	60	100
4.	17110404	Concrete Technology	3	1	-	3	40	60	100
5.	17110405	Structural Analysis - I	3	1	-	3	40	60	100
6.	17110406	Environmental Engineering - I	3	1	-	3	40	60	100
7.	17119407	Soft Skills -I	1	2	-	1	40	60	100
8.	17110411	Fluid Mechanics and Hydraulic Machinery Lab	-	-	3	2	50	50	100
9.	17110412	Concrete Technology Lab	-	-	3	2	50	50	100
Total			19	8	6	23	380	520	900

COURSE STRUCTURE B. Tech. Civil Engineering

III Year

I Semester

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	17119501	Managerial Economics and Financial Analysis	3	1	-	3	40	60	100
2.	17110502	Design of Reinforced Concrete Structures	3	1	-	3	40	60	100
3.	17110503	Structural Analysis - II	3	1	-	3	40	60	100
4.	17110504	Soil Mechanics	3	1	-	3	40	60	100
5.	17110505	Transportation Engineering - I	3	1	-	3	40	60	100
6.	17110506	Engineering Geology	3	1	-	3	40	60	100
7.	17110511	Soil Mechanics Lab	-	-	3	2	50	50	100
8.	17110512	Transportation Engineering Lab	-	-	3	2	50	50	100
9.	17110521	Mini Project -I	-	-	-	2	100	-	100
Total			18	6	6	24	440	460	900

Mini Project – I - To be done during summer vacation after II-II semester

COURSE STRUCTURE B. Tech. Civil Engineering

III Year

II Semester

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	17110601	Design of Steel Structures	3	1	-	3	40	60	100
2.	17110602	Foundation Engineering	3	1	-	3	40	60	100
3.	17110603	Transportation Engineering - II	3	1	-	3	40	60	100
4.	17110604	Environmental Engineering - II	3	1	-	3	40	60	100
5.	17110605	Water Resources Engineering -I	3	1	-	3	40	60	100
6.	17110666	OPEN ELECTIVE	3	1	-	3	40	60	100
7.	17119607	Soft Skills -II	1	2	-	1	40	60	100
8.	17110611	Environmental Engineering Lab	-	-	3	2	50	50	100
9.	17110612	Engineering Geology Lab	-	-	3	2	50	50	100
Total			19	8	6	23	380	520	900

COURSE STRUCTURE

B. Tech. Civil Engineering

IV Year

I Semester

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	17110701	Water Resource Engineering -II	3	1	-	3	40	60	100
2.	17110702	Construction Technology and Management	3	1	-	3	40	60	100
3.	17110703	Prestressed Concrete	3	1	-	3	40	60	100
4.	17110704	Remote Sensing and GIS Applications	3	1	-	3	40	60	100
5.	17110765	ELECTIVE-I	3	1	-	3	40	60	100
	17110765a	Ground Improvement Techniques							
	17110765b	Bridge Engineering							
	17110765c	Urban Hydrology							
	17110765d	Advanced Surveying							
	17110765e	Repair and Rehabilitation of Structures							
6.	17110766	ELECTIVE - II	3	1	-	3	40	60	100
	17110766a	Environmental Impact Assessment and Management							
	17110766b	Advanced Structural Engineering							
	17110766c	Design and Drawing of Irrigation structures							
	17110766d	Traffic Engineering							
	17110766e	Water Resources System Planning							
7.	17110711	Design and Detailing Lab	-	-	3	2	50	50	100
8.	17110712	GIS & CAD Lab	-	-	3	2	50	50	100
9.	17110721	Mini Project – II	-	-	-	2	100	-	100
Total			18	6	6	24	440	460	900

Mini Project – II - To be done during summer vacation after III-II semester

COURSE STRUCTURE

B. Tech. Civil Engineering

IV Year

II Semester

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.	17110801	Estimating, Specifications & Contracts	3	1	-	3	40	60	100
2.	17110862	ELECTIVE-III							
	17110862a	Advanced foundation Engineering							
	17110862b	Earthquake Resistant Design	3	1	-	3	40	60	100
	17110862c	Solid waste Management							
	17110862d	Pavement Analysis & Design and evaluation							
	17110862e	Urban Transportation Planning							
3.	17119803	Intellectual Property Rights & Patents	1	2	-	1	40	60	100
4.	17110841	Project Work	-	-	-	9	60	140	200
Total			7	4	-	16	180	320	500