CORE MODULES

A. Under-Graduate Programs-Civil Engineering

Sl. No	Category	Total number of Credits
1	University Core	48
2	University Elective	3
3	Programme Core	114
4	Programme Elective	15
Minimum Total Number of Credits		**180**

Breakup of Category

Category	Number of Credits	Percentage %	Recommended %
Humanities	13	7.2	8
Engineering	121	67.2	66
Management	11	6.1	6
Sciences	35	19.4	20
Total	**180**	**100**	**100**

Breakup of Category covered through University Core

Category	Number of Credits
Engineering	**12**
Humanities	**10**
Management	**3**
Sciences	**23**

University Elective

Course Title	L	T	P	C
University Elective	3	0	0	3
				3

CURRICULUM

Abbreviations	
Earth and Environmental Engg.	EE
Structural Engg.	SE
Geotech, Water Resources and Transportation	GTW
Project Work	PW

University Core

Course Code	Course Title	Division	L	T	P	C
CLE 101	Engineering Mechanics	SE	2	1	0	3
CLE 201	Engineering Geology	EE	2	0	2	3
CLE 202	Surveying	SE	3	0	2	4
CLE 203	Building Materials and Technology	SE	2	0	0	2
CLE 204	Soil Mechanics	GTW	2	1	2	4
CLE 205	Fluid Mechanics	GTW	2	1	2	4
CLE 206	Concrete Technology	SE	2	0	0	2
CLE 207	Strength of Materials	SE	2	0	2	3
CLE 208	Building Drawing	SE	0	0	4	2
CLE 209	Hydraulics and Hydraulic Machines	GTW	2	1	2	4
CLE 210	Highway Engineering	GTW	2	0	2	3
CLE 211	Transportation Engineering	GTW	3	0	0	3
CLE 212	Quantity Surveying and Estimation	SE	1	1	0	2
CLE 213	Structural Analysis	SE	2	1	0	3
CLE 214	Materials and Concrete Lab	SE	0	0	2	1
CLE 215	Economics and Project Finance for Civil Engineers	SE	2	0	0	2
CLE 301	Principles & Design of Water Supply & Treatment Systems	EE	2	0	2	3
CLE 302	Water Resources Engineering	GTW	3	0	0	3
CLE 303	Principles & Design of Wastewater Treatment & Disposal Systems	EE	3	0	0	3

CLE 304	Advanced Structural Analysis	SE	2	1	2	4
CLE 305	Reinforced Concrete Design	SE	3	0	2	4
CLE 306	Design of Steel Structures	SE	3	0	2	4
CLE 307	CAD lab	SE	0	0	4	2
CLE 308	Geotechnical Engineering	GTW	3	0	0	3
CLE 320	Survey Camp	PW	0	0	2	1
CLE 350	Industrial Internship	PW	-	-	-	1
CLE 401	Advance concrete Design	SE	2	1	0	3
CLE 402	Construction Planning and Management	SE	3	0	0	3
CLE 450	Project Work	PW	-	-	-	20
HUM 201	Psychology and Sociology	-	3	0	0	3
MAT 102	Engineering Mathematics II	-	3	1	0	4
MAT 201	Engineering Mathematics III	-	3	1	0	4
MAT 202	Applied Numerical Methods	-	3	0	2	4
			65	**10**	**36**	**114**

Programme Core

Course Code	Course Title	Division	L	T	P	C
CLE309	Applications of Matrix Methods in Structural analysis	SE	2	1	0	3
CLE310	Architecture and Town Planning	SE	2	1	0	3
CLE311	Socio-economic studies &EIA	EE	2	1	0	3
CLE312	Ground Improvement Techniques	EE	3	0	0	3
CLE313	Engineering Hydrology	GTW	2	1	0	3
CLE314	Industrial Wastes Treatment and Disposal	EE	3	0	0	3
CLE315	Pollution Control and Monitoring	EE	3	0	0	3
CLE316	Renewable Sources of Energy& Hydro power Engineering	GTW	3	0	0	3
CLE317	Transport Planning and Management	GTW	3	0	0	3
CLE318	Natural Disaster Mitigation and Management	EE	3	0	0	3
CLE319	Design with STADD pro	SE	1	0	4	3
CLE321	Open Channel Flow	GTW	3	0	0	3
CLE322	Ground water Engineering	GTW	2	1	0	3
CLE323	Highway Pavement Design	GTW	2	1	0	3
CLE324	Mass Transport Management	GTW	2	1	0	3
CLE325	Operation and Management of Irrigation & Drainage Systems	GTW	2	1	0	3
CLE326	Earthquake Engineering	SE	2	1	0	3
CLE327	Water resources Systems Engineering	GTW	2	1	0	3
CLE328	Traffic Engineering	GTW	2	1	0	3
CLE329	Open Channel Hydraulics	GTW	2	1	0	3
CLE330	Advanced Surveying	SE	3	0	0	3
CLE331	Air and Noise Pollution	EE	2	1	0	3
CLE403	Soil Dynamics and Machine Foundation	GTW	2	1	0	3
CLE404	Structures on Expansive Soils	SE	2	1	0	3
CLE405	Advance hydraulic Structures design	GTW	2	0	2	3

CLE406	Bridge Engineering	SE	3	0	0	3
CLE407	Advanced Steel structures	SE	2	1	0	3
CLE408	Tunnel Engineering	GTW	3	0	0	3
CLE409	Dynamics of Structures	SE	2	1	0	3
CLE410	River Engineering	GTW	3	0	0	3
CLE411	Planning & Scheduling with Primavera Software	SE	2	0	2	3