

School Name: School of Engineering
Department of Civil Engineering
Programme Name: BTech Civil Engineering
Scheme: 2015-2019

I SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	C
1	LLL111	Basic English	3	0	0	3
2	MAT111	Matrices & Multivariable Calculus	3	1	0	4
3	PHY111	Modern Physics	3	0	0	3
4	PHY151	Physics-I Lab	0	0	2	1
5	CHY111	General Chemistry	3	0	0	3
6	CHY151	Engineering Chemistry-I Lab	0	0	2	1
7	JAP101	Japanese	2	0	0	2
8	EEE101	Basics of Electrical and Electronics Engineering	3	0	0	3
9	EEE151	Basics of Electrical and Electronics Engineering Lab	0	0	2	1
10	EVS102	Environmental science & Energy	3	0	0	3
11	MEE151	Engineering Graphics	0	0	4	2
Total credits						26

II SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	C
1	LLL121	English Proficiency	0	0	4	2
2	MAT121	Ordinary Differential Equations and Integral Transform	3	1	0	4
3	PHY121	Condensed Matter Physics	3	0	0	3
4	PHY141	Physics Lab-II	0	0	2	1
5	CHY122	Nano Science and Nano Technology	3	0	0	3
6	CHY141	Chemistry Lab-II	0	0	2	1
7	HUM201	Psychology & Sociology	2	0	0	2
8	CSE101	Computer Programming and Problem Solving	3	0	0	3
9	CSE151	Computer Programming and Problem Solving Laboratory	0	0	2	1
10	LLL101	Universal Human Values and Ethics	3	0	0	3
11	MEE152	Workshop Practice	0	0	2	1
Total credits						24

III SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	C
1	MAT211	Partial Differential Equations and Complex Analysis	3	1	0	4
2	LLL213	English Proficiency and Aptitude Building-II	0	0	4	2
3	CLE211	Engineering Mechanics	3	0	0	3
4	CLE212	Engineering Geology	2	0	0	2
5	CLE213	Surveying	2	0	0	2
6	CLE214	Fluid Mechanics	3	0	0	3
7	CLE218	Soil Mechanics	3	0	0	3
8	CLE252	Engineering Geology Lab	0	0	2	1
9	CLE253	Surveying Practices	0	0	2	1
10	CLE254	Fluid Mechanics Lab	0	0	2	1
11	CLE255	Soil Mechanics Lab	0	0	2	1
Total credits						23

IV SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	C
1	LLL222	English Proficiency and Aptitude Building-III	0	0	4	2
2	MAT221	Numerical Methods	3	0	0	3
3	CLE221	Building Materials and Technology	2	0	0	2
4	CLE223	Strength of Materials	3	0	0	3
5	CLE225	Highway Engineering	3	0	0	3
6	CLE226	Water Resources Engineering	2	0	0	2
7	CLE227	Principles and Design of Water Supply and Treatment Systems	3	0	0	3
8	CLE228	Geotechnical Engineering	3	0	0	3
9	MAT241	Numerical Methods lab	0	0	2	1
10	CLE243	Strength of Materials Laboratory	0	0	2	1
11	CLE245	Highway Materials Testing Laboratory	0	0	2	1
12	CLE246	Water Analysis Laboratory	0	0	2	1
13	CLE247	Civil CAD	0	0	2	1
Total credits						26

V SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	C
1	LLL311	English Proficiency & Aptitude Building-IV	0	0	4	2
2	MAT311	Probability and Statistics	3	0	0	3
3	CLE311	Concrete Technology	2	0	0	2
4	CLE312	Structural Analysis	3	0	0	3

5	CLE316	Transportation Engineering	2	0	0	2
6	CLE 318	Principles and Design of Waste Water Treatment & Disposal Systems	3	0	0	3
7	MGT302	Industrial Economics & Management	3	0	0	3
8	CLE351	Concrete Testing Laboratory	0	0	2	1
9	CLE352	Waste Analysis Lab	0	0	2	1
10	CLE354	Survey Camp	0	0	0	1
11	CLE355	Structural Analysis Laboratory	0	0	2	1
Total credits						22

VI SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	C
1	LLL 322	Campus to Corporate	0	0	4	2
2	CLE321	Quantity Surveying and Estimating	2	0	0	2
3	CLE322	Advanced Structural Analysis	3	0	0	3
4	CLE323	Reinforced Concrete Structures	3	0	0	3
5	CLE325	Hydraulics and Hydraulics Machines	3	0	0	3
6	CLE373	Pollution Control and Monitoring (Elective I)	3	0	0	3
7	CLE378	Traffic Engineering (Elective II)	3	0	0	3
8	CLE342	Hydraulics and Hydraulic Machines Laboratory	0	0	2	1
9	ITS318P	IT Skills in C & C++ Programming	0	0	2	1
10	ITS319P	IT Skills in Databases	0	0	2	1
11	CLE345	CAD Lab-I	0	0	2	1
Total credits						23

VII SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	C
1	CLE412	Construction Planning and Management	3	0	0	3
2	CLE413	Design of Steel Structures	3	0	0	3
3	CLE402	Air and Noise Pollution (Elective III)	3	0	0	3
4	CLE403	Ground Water Engineering (Elective IV)	3	0	0	3
5	CLE468	Bridge Engineering (Elective V)	3	0	0	3
6	CLE455	Industrial Internship	-	-	-	1
7	CLE498	Project Work (Part I)	-	-	-	5
8	CLE452	CAD Lab-II	0	0	2	1
Total credits						21

VIII SEMESTER

Sl. No.	Course Code	Course Title	L	T	P	C
1	CLE500	Project Work (Part II)	-	-	-	15
Total credits						15

List of Elective Courses						
Sl. No.	Course Code	Course Title	L	T	P	C
1	CLE371	Socio-Economic Studies & EIA	3	0	0	3
2	CLE372	Ground Improvement Techniques	3	0	0	3
3	CLE373	Pollution Control and Monitoring	3	0	0	3
4	CLE374	Natural Disaster Mitigation and Management	3	0	0	3
5	CLE375	Engineering Hydrology	3	0	0	3
6	CLE376	Renewable Sources of Energy & Hydro power Engineering	3	0	0	3
7	CLE377	Transport Planning and Management	3	0	0	3
8	CLE378	Traffic Engineering	3	0	0	3
9	CLE379	Open Channel Hydraulics	3	0	0	3
10	CLE381	Architecture and Town Planning	3	0	0	3
11	CLE382	Advanced Surveying	3	0	0	3
12	CLE383	Economics and Project Finance for Civil Engineers	3	0	0	3
13	CLE384	Highway Pavement Design	3	0	0	3
14	CLE385	Earthquake Engineering	3	0	0	3
15	CLE386	Structures on Expansive Soils	3	0	0	3
16	CLE401	Industrial Wastes Treatment and Disposal	3	0	0	3
17	CLE402	Air and Noise Pollution	3	0	0	3
18	CLE403	Ground Water Engineering	3	0	0	3
19	CLE404	River Engineering	3	0	0	3
20	CLE405	Open Channel Flow	3	0	0	3
21	CLE406	Mass Transport Management	3	0	0	3
22	CLE407	Operation and Management of Irrigation & Drainage Systems	3	0	0	3
23	CLE408	Water Resources Systems Engineering	3	0	0	3
24	CLE409	Soil Dynamics and Machine Foundation	3	0	0	3
25	CLE461	Advance Hydraulic Structures Design	3	0	2	3
26	CLE462	Tunnel Engineering	3	0	0	3
27	CLE463	Applications of Matrix Methods in Structural Analysis	3	0	0	3
28	CLE465	Dynamics of Structures	3	0	0	3
29	CLE466	Advanced Concrete Design	3	0	0	3
30	CLE467	Pre-Stressed Concrete Structures	3	0	0	3
31	CLE468	Bridge Engineering	3	0	0	3