

**School Name: School of Engineering Department of Civil Engineering Programme Name: BTech Civil Engineering** Scheme: 2016-2020

## **I SEMESTER**

Sl.	Course	Course Title	L	T	P	C	
No.	Code						
1	LLL111	Basic English	3	0	0	3	
2	MAT113	Differential and Integral Calculus	3	0	0	3	
3	PHY111	Modern Physics	3	0	0	3	
4	PHY151	Physics Lab I	0	0	2	1	
5	CHY111	General Chemistry	3	0	0	3	
6	CHY151	Chemistry Lab I	0	0	2	1	
7	EEE101	Basic Electrical and Electronics Engineering	3	0	0	3	
8	EEE151	Basic Electrical and Electronics Engineering Lab	0	0	2	1	
9	EVS102	Environmental Science & Energy	3	0	0	3	
10	MEE152	Workshop Practice	0/0	0/0	2 OR 4	1 OR 2	
	Total credits						

	II SEMESTER								
Sl. No.	Course Code	Course Title	L	Т	P	C			
1	LLL123	English Proficiency and Aptitude Building-1	0	0	4	2			
2	MAT122	Matrices & Ordinary Differential Equations	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 Lab	0	0	2	1			
10	LLL101	Universal Human Values and Ethics	3	0	0	3			
11	MEE151	Engineering Graphics	0/0	0/0	4 OR 2	2 OR 1			
	Total credits								



		III SEMESTER					
Sl. No.	Course Code	Course Title	L	Т	P	С	
1	MAT212	Vector Calculus, Functions of Complex Variable & PDE	3	1	0	4	
2	LLL213	English Proficiency and Aptitude Building-2	0	0	4	2	
3	CLE211	Engineering Mechanics	3	0	0	3	
4	CLE212	Engineering Geology	2	0	0	2	
5	CLE213	Surveying	3	0	0	3	
6	CLE214	Fluid Mechanics	3	0	0	3	
7	CLE215	Building Materials and Technology	2	0	0	2	
8	CLE252	Engineering Geology Laboratory	0	0	2	1	
9	CLE253	Surveying Practices	0	0	2	1	
10	CLE254	Fluid Mechanics Laboratory	0	0	2	1	
11	CLP257	Civil CAD	0	0	2	1	
	Total credits						

IV SEMESTER								
Sl. No.	Course Code	Course Title	L	Т	P	C		
1	LLL222	English Proficiency and Aptitude Building-3	0	0	4	2		
2	MAT222	Numerical Methods	3	0	0	3		
3	CLE230	Hydraulics and Hydraulics Machines	3	0	0	3		
4	CLE223	Strength of Materials	3	0	0	3		
5	CLE229	Concrete Technology	2	0	0	2		
6	CLE227	Principles and Design of Water Supply and Treatment Systems	3	0	0	3		
7	CLE231	Construction Planning and Management	3	0	0	3		
8	MAT241	Numerical Methods lab	0	0	2	1		
9	CLE243	Strength of Materials Laboratory	0	0	2	1		
10	CLE244	Hydraulics and Hydraulic Machines Laboratory	0	0	2	1		
11	CLE247	Concrete Testing Laboratory	0	0	2	1		
12	CLE248	Water Analysis Laboratory	0	0	2	1		
Total credits								

0

2

1

24

0



9

10

CLE335

CLE356

Soil Mechanics Laboratory

Highway Engineering Laboratory

**Total credits** 

	V SEMESTER									
Sl. No.	Course Code	Course Title	L	Т	P	С				
1	LLL312	English Proficiency & Aptitude Building-4	0	0	4	2				
2	MAT311	Probability and Statistics	3	0	0	3				
3	CLE312	Structural Analysis	3	0	0	3				
4	CLE331	Reinforced Concrete Structures	3	0	0	3				
5	CLE332	Highway Engineering	3	0	0	3				
6	CLE333	Soil Mechanics	3	0	0	3				
7	CLE334	Water Resources Engineering	2	0	0	2				
8	MGT302	Industrial Economics & Management	3	0	0	3				

VI SEMESTER							
Sl. No.	Course Code	Course Title	L	Т	P	С	
1	LLL322	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	Principles and Design of Waste Water Treatment & Disposal Systems	3	0	0	3	
5	CLE324	Geotechnical Engineering	3	0	0	3	
6	CLE325	Transportation Engineering	3	0	0	3	
7	CLE373	Pollution Control and Monitoring (Elective I)	3	0	0	3	
8	CLE341	Structural Analysis Laboratory	0	0	2	1	
9	CLE342	CAD Lab-I	0	0	2	1	
10	ITS318P	IT Skills in C & C++ Programming	0	0	2	1	
11	ITS319P	IT Skills in Databases	0	0	2	1	
		Total credits				23	



	VII SEMESTER							
Sl. No.	Course Code	Course Title	L	Т	P	C		
1	CLE413	Design of Steel Structures	3	0	0	3		
2	CLE402	Air and Noise Pollution (Elective- II)	3	0	0	3		
3	CLE403	Ground Water Engineering (Elective III)	3	0	0	3		
4	CLE405	Open Channel Flow (Elective IV)	3	0	0	3		
5	CLE466	Advanced Concrete Design (Elective V)	3	0	0	3		
6	CLE454	CAD Lab-II	0	0	2	1		
7	CLE456	Industrial Internship	-	-	-	1		
8	CLE496	Capstone Design (Part I)	-	-	-	5		
Total credits								

	VIII SEMESTER							
Sl. No.	Course Code	Course Title	L	Т	P	С		
1	CLE499	Capstone Design (part II)	-	-	-	15		
	Total credits							

	List of elective courses								
Sl. No.	Course Code	Course Title	L	Т	P	С			
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			

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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