

## **Curriculum Session 2017-18**

hool Nar	ne : School of Engineeri	ng & Information Technology				
P	rogramme Name : B.Teo	ch.	Branch	: Civil Enq	gineering	
		SEMESTER : I				
S. No.	Course Code	Course Title	L	Т	Р	С
1	MAT 101	Mathematics-I	3	1	-	4
2	PHY 101/CHY 101	Modern Physics/General Chemistry	3	1	-	4
3	EEE 101/ ECE 101	Basic Electrical Engineering/Basic Electronics Engineering	3	-	-	3
4	CSE 101/ MEE 101	Computer System & Programming in C/Engineering Mechanics	3	-	-	3
5	EVS 101/ PSY 101	Environmental Science/Sociology and Psychology	3	-	-	3
6	CSE 151/ MEE 151	Computer System & Programming Lab/ Engineering Mechanics Lab	-	-	2	1
7	EEE 151 / ECE 151	Electrical Engineering Lab/ Electronics Engineering Lab	-	-	2	1
8	MEE 153 / MEE 155	Computer Aided Engineering Graphics Lab/ Product Realization through Manufacturing	-	-	4	2
9	PHY 151 / CHY 151	Modern Physics Lab/ General Chemistry Lab	-	-	2	1
10	BLL 151	Life Skill (Communication Skill)	-	-	4	2
			TOTA	L NO. OF	CREDITS	24
		SEMESTER : II				
S. No.	Course Code	Course Title	L	Т	Р	С
1	MAT 102	Mathematics-II	3	1	-	4
2	PHY 101/CHY 101	Modern Physics/General Chemistry	3	1	-	4
3	EEE 101/ ECE 101	Basic Electrical Engineering/Basic Electronics Engineering	3	-	-	3
4	CSE 101/ MEE 101	Computer System & Programming in C/Engineering Mechanics	3	-	-	3
5	EVS 101/ PSY 101	Environmental Science/Sociology and Psychology	3	-	-	3
6	CSE 151/ MEE 151	Computer System & Programming Lab/ Engineering Mechanics Lab	-	-	2	1
7	EEE 151 / ECE 151	Electrical Engineering Lab/ Electronics Engineering Lab	-	-	2	1
8	MEE 153 / MEE 155	Computer Aided Engineering Graphics Lab/ Product Realization through Manufacturing	-	-	4	2
9	PHY 151 / CHY 151	Modern Physics Lab/ General Chemistry Lab	-	-	2	1
10	BLL 152	Life Skill (Human Values & Ethics)	-	-	4	2
			TOTA	L NO. OF	CREDITS	24
		III SEMESTER				
SI. No.	Course Code	Course Title	L	T	Р	С
1	MAT 201	Mathematics III	3	1	0	4
2	MEE 201	Fluid Mechanics & Machinery	3	0	0	3
3	MEE 203	Mechanics of solids	3	0	0	3
4	CLE 201	Engineering Geology	3	0	0	3
5	CLE 203	Surveying	3	0	0	3
6	CLE 205	Building Materials and Technology	3	0	0	3
7	MEE 251	Fluid Mechanics & Machinery Lab	0	0	2	1
8	CLE 251	Surveying Lab	0	0	2	1
9	CLE 251	Building Materials and Technology Lab	0	0	2	1
10	BLL 251	Life Skill (Technical Communication)	0	0	4	2

Submitted By\_\_\_\_\_ Signature of Dean/HOD

TOTAL NO. OF CREDITS



## **Curriculum Session 2017-18**

chool Name								
		ring & Information Technology	Dranch :	Civil En	incoring			
PIC	Programme Name : B.Tech.  IV SEMESTER			Branch : Civil Engineering				
SI. No.	Course Code	Course Title	ΤL	Т	P	С		
1	MAT 202	Satistical and Numerical Methods	3	0	0	3		
2	CLE 202	Soil Mechanics	3	0	0	3		
3	CLE 204	Transportation Engineering	3	0	0	3		
4	CLE 204	Water Resources Engineering	3	0	0	3		
5	CLE 208	Principles and Design of Water Supply and Treatment Systems	3	0	0	3		
6	CLE 210	Hydraulics and Hydraulics Machines	3	0	0	3		
7	CLE 252	Transportation Engineering Lab-1	0	0	2	1		
8	CLE 254	Hydraulics and Hydraulic Machines Laboratory	0	0	2	1		
9	CLE 256	Soil Mechanics Laboratory	0	0	2	1		
10	MAT 252	Satistical and Numerical Methods Lab	0	0	2	1		
11	BLL 252	Life Skill (Soft Skill)	0	0	4	2		
			TOTA	L NO. OF	CREDITS	24		
		V SEMESTER						
SI. No.	Course Code	Course Title	L	Т	Р	С		
1	CLE 301	Concrete Technology	3	0	0	3		
2	CLE 303	Structural Analysis	3	0	0	3		
3	CLE 305	Transportation Engineering-2	3	0	0	3		
		Principles and Design of Waste Water Treatment & Disposal		0				
4	CLE 307	Systems	3	0	0	3		
6		Open Elective -I	0	0	4	2		
7		Programme Elective- I	3	0	0	3		
8	CLE 351	Concrete Testing Laboratory	0	0	2	1		
10	CLE 353	Transportation Engineering Lab-2	0	0	2	1		
11	CLE 355	Structural Analysis Laboratory	0	0	2	1		
12	BLL 351	Life Skill (Aptitude Building)	0	0	4	2		
13		Technical proficiency in Civil Engg-I	_			1		
	CLE 357	rechilical proficiency in Civil Engg-i	0	0	2			
	CLE 357	Trechnical proficiency in civil Engg-1	_			23		
	CLE 357		_		CREDITS			
SI. No.		VI SEMESTER	TOTA		CREDITS	23		
<b>SI. No.</b>	Course Code	VI SEMESTER  Course Title	TOTA	L NO. OF	CREDITS	23 C		
1	Course Code CLE 302	VI SEMESTER  Course Title  Reinforced Concrete Structures	TOTA  L 3	<b>T</b> 0	P 0	<b>23 C</b> 3		
1 2	Course Code CLE 302 CLE 304	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis	TOTA  L	T 0 0	P 0 0	23 C 3		
1 2 3	Course Code CLE 302	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management	TOTA  L 3 3 3	T 0 0 0	P 0 0 0	23 C 3 3		
1 2 3 4	Course Code CLE 302 CLE 304	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II	TOTA  L 3 3 3 3 3	T 0 0 0 0 0	P 0 0 0 0 0 0 0	23 C 3 3 3		
1 2 3 4 5	Course Code CLE 302 CLE 304	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III	TOTA  L 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 C 3 3 3 3		
1 2 3 4 5 6	Course Code CLE 302 CLE 304 CLE 306	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II	TOTA  L 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 C 3 3 3 3 3		
1 2 3 4 5 6 8	Course Code CLE 302 CLE 304 CLE 306  CLE 352	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation	TOTA  L 3 3 3 3 3 3 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 C 3 3 3 3 3 3		
1 2 3 4 5 6 8 9	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp	TOTA  L 3 3 3 3 3 0 0	L NO. OF  T 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 C 3 3 3 3 3 1		
1 2 3 4 5 6 8 9 10	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate	TOTA  L 3 3 3 3 3 0 0 0 0	L NO. OF  T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 0 0 0 0 0 0 2 2 2 4	23 C 3 3 3 3 3 1 1 2		
1 2 3 4 5 6 8 9	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp	TOTA  L 3 3 3 3 3 0 0 0 0 0	L NO. OF  T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CREDITS  P 0 0 0 0 0 0 2 2 4 2	23 C 3 3 3 3 3 1 1 2 1		
1 2 3 4 5 6 8 9 10	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II	TOTA  L 3 3 3 3 3 0 0 0 0 0	L NO. OF  T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 0 0 0 0 0 0 2 2 2 4	23 C 3 3 3 3 3 1 1 2		
1 2 3 4 5 6 8 9 10	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356 CLE 358	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II	TOTA  3 3 3 3 3 3 0 0 0 TOTA	L NO. OF  T 0 0 0 0 0 0 0 0 0 L NO. OF	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 C 3 3 3 3 1 1 2 1 23		
1 2 3 4 5 6 8 9 10 11 SI. No.	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356 CLE 358  Course Code	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II  VII SEMESTER  Course Title	TOTA  3 3 3 3 3 0 0 0 TOTA	D NO. OF  T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23  C 3 3 3 3 1 1 2 1 23		
1 2 3 4 5 6 8 9 10 11 SI. No. 1	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356 CLE 358  Course Code CLE 401	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective - II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II  VII SEMESTER  Course Title  Construction Planning and Management	TOTA  3 3 3 3 3 0 0 0 TOTA	D	P	23  C 3 3 3 3 3 1 1 2 1 23  C 3		
1 2 3 4 5 6 8 9 10 11 SI. No. 1 2	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356 CLE 358  Course Code CLE 401 CLE 403	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II  VII SEMESTER  Course Title  Construction Planning and Management  Design of Steel Structures	TOTA  L 3 3 3 3 3 0 0 0 TOTA  L 3 3 3	L NO. OF  T 0 0 0 0 0 0 0 0 0 1 0 0 1 1 1 1 1 1	P	23  C 3 3 3 3 3 1 1 2 1 23  C 3 3 3		
1 2 3 4 5 6 8 9 10 11 SI. No. 1 2 3	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356 CLE 358  Course Code CLE 401 CLE 403 CLE 405	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II  VII SEMESTER  Course Title  Construction Planning and Management  Design of Steel Structures  Quantity Surveying and Estimating	TOTA  L 3 3 3 3 3 0 0 0 TOTA	L NO. OF  T 0 0 0 0 0 0 0 0 0 0 L NO. OF	P	23  C 3 3 3 3 3 1 1 2 1 23  C 3 3 2		
1 2 3 4 5 6 8 9 10 11 SI. No. 1 2 3 4	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356 CLE 358  Course Code CLE 401 CLE 403	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II  VII SEMESTER  Course Title  Construction Planning and Management  Design of Steel Structures  Quantity Surveying and Estimating  Design & Drawing(RCC, Steel & Environment)	TOTA  L 3 3 3 3 3 0 0 0 TOTA	L NO. OF  T 0 0 0 0 0 0 0 0 0 L NO. OF	P	23  C 3 3 3 3 3 1 1 2 1 23  C 3 3 2 3 3		
1 2 3 4 5 6 8 9 10 11 SI. No. 1 2 3 4 5 5	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356 CLE 358  Course Code CLE 401 CLE 403 CLE 405	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II  VII SEMESTER  Course Title  Construction Planning and Management  Design of Steel Structures  Quantity Surveying and Estimating  Design & Drawing(RCC, Steel & Environment)  Elective-IV	TOTA  L 3 3 3 3 3 0 0 0 TOTA  L 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	L NO. OF  T 0 0 0 0 0 0 0 0 0 0 L NO. OF	P	23  C 3 3 3 3 3 1 1 2 1 23  C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
1 2 3 4 5 6 6 8 9 10 11 2 3 4 5 6 6	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356 CLE 358  Course Code CLE 401 CLE 403 CLE 405 CLE 407	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II  VII SEMESTER  Course Title  Construction Planning and Management  Design of Steel Structures  Quantity Surveying and Estimating  Design & Drawing(RCC, Steel & Environment)  Elective-IV  Elective-V	TOTA  L 3 3 3 3 3 0 0 0 TOTA  L 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23  C 3 3 3 3 3 1 1 2 1 23  C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
1 2 3 4 5 6 8 8 9 10 11 2 3 4 5 6 6 8 8	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356 CLE 358  Course Code CLE 401 CLE 403 CLE 405 CLE 407  MEE 451	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II  VII SEMESTER  Course Title  Construction Planning and Management  Design of Steel Structures  Quantity Surveying and Estimating  Design & Drawing(RCC , Steel & Environment)  Elective-IV  Elective-V  CAD Lab	TOTA  L 3 3 3 3 3 0 0 0 TOTA  L 3 3 2 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P	23  C 3 3 3 3 3 1 1 2 1 23  C 3 3 2 3 3 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2		
1 2 3 4 5 6 6 8 9 10 11 2 3 4 5 6 6	Course Code CLE 302 CLE 304 CLE 306  CLE 352 CLE 354 CLE 356 CLE 358  Course Code CLE 401 CLE 403 CLE 405 CLE 407	VI SEMESTER  Course Title  Reinforced Concrete Structures  Advanced Structural Analysis  Natural Disaster Mitigation and Management  Programme Elective- II  Programme Elective- III  Open Elective -II  Estimation costing & Valuation  Survey Camp  Campus-to-Corporate  Technical proficiency in Civil Engg-II  VII SEMESTER  Course Title  Construction Planning and Management  Design of Steel Structures  Quantity Surveying and Estimating  Design & Drawing(RCC, Steel & Environment)  Elective-IV  Elective-V	TOTA  L 3 3 3 3 3 0 0 0 TOTA  L 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23  C 3 3 3 3 3 1 1 2 1 23  C 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		



## **Curriculum Session 2017-18**

chool Name	o . School of Engines	Curriculum Session 2017-18 ring & Information Technology				
	ogramme Name : B.T		Branch :	· Civil End	jineering	
	ogramme Name . b. i	VIII SEMESTER	Di alicii .	CIVII LIIQ	Jineering	
SI. No.	Course Code	Course Title	T L	Т	Р	С
1	CLE 402	Project Work				20
<u> </u>	CLL 402	JET OJECT WOLK	TOTA	I NO OF	CREDITS	20
		OPEN ELECTIVE-I	IUIA	L NO. OF	CKLDII3	20
SI. No.	Course Code	Course Title		Т	Р	С
	GER 101		<b>L</b>	0		
2	FRE 101	Foreign Language(German) Foreign Language(French)	0	0	4	2
		Foreign Language(Japanese)				
3	JAP 101		0	0	4	2
4	FPA 101	Fine & Performing Art	0	0	4	2
5	ECA 101	Extra cocuricular activities	0	0	4	2
0.11		OPEN ELECTIVE-II		<del>-</del>		
S. No.	Course Code	Course Title	L	Т	Р	С
1	CSE 310	Cloud Computing	3	0	0	3
2	ECE 306	Robotics	3	0	0	3
3	ECE 308	Renewable Energy Resources	3	0	0	3
4	CSE 312	Internet of Things	3	0	0	3
		PROGRAMME ELECTIVE-I				
SI. No.	Course Code	Course Title	L	T	Р	С
1	CLE 309	Socio-economic studies & EIA	3	0	0	3
2	CLE 311	Ground Improvement Techniques	3	0	0	3
3	CLE 313	Pollution Control and Monitoring	3	0	0	3
4	CLE 315	Applications of Matrix Methods in Structural analysis	3	0	0	3
		PROGRAMME ELECTIVE-II				
SI. No.	Course Code	Course Title	L	Т	Р	С
1	CLE 310	Traffic Engineering	3	0	0	3
2	CLE 312	Open Channel Hydraulics	3	0	0	3
3	CLE 314	Architecture and Town Planning	3	0	0	3
4	CLE 316	Design with STADD pro	3	0	0	3
		PROGRAMME ELECTIVE-III				
SI. No.	Course Code	Course Title	L	Т	Р	С
1	CLE 318	Economics and Project Finance for Civil Engineers	3	0	0	3
2	CLE 320	Highway Pavement Design	3	0	0	3
3	CLE 322	Earthquake Engineering	3	0	0	3
4	CLE 324	Structures on Expansive Soils	3	0	0	3
<u>'</u>	02E 02 1	PROGRAMME ELECTIVE-IV			Ü	Ŭ
SI. No.	Course Code	Course Title	TL	Т	Р	С
1	CLE 409	Ground water Engineering	3	0	0	3
2	CLE 411	River Engineering	3	0	0	3
3	CLE 413	Open Channel Flow	3	0	0	3
4	CLE 415	Mass Transport Management	3	0	0	3
7	OLL 410	PROGRAMME ELECTIVE-V	J		U	3
SI No.	Course Code		TL	Т	Р	
SI. No.	CLE 417	Course Title				<u>C</u>
1	CLE 417	Operation and Management of Irrigation & Drainage Systems	3	0	0	3
3	CLE 419	Soil Dynamics and Machine Foundation	3	0	0	3
5	CLE 421	Tunnel Engineering	3	0	0	3

Submitted By\_\_\_\_\_ Signature of Dean/HOD

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CLE 423

Bridge Engineering