

School Name: School of Engineering
Department of Civil Engineering
Programme Name: BTech Civil Engineering
Scheme: 2019-2023

Semester I						
Sl. No.	Course Code	Course Title	L	T	P	C
1	BMA101	Mathematics-I (Multivariable Calculus)	3	1	0	3
2	BPH101	Engineering Physics	3	0	0	3
3	FENG1005	Functional English	2	0	0	2
4	BCS101	Fundamentals of Computer Programing	3	0	0	3
5	BME101	Elements of Mechanical Engineering	3	0	0	3
6	BMA151	Exploration with CAS - I	0	0	2	1
7	BPH151	Engineering Physics Lab	0	0	2	1
8	BCS151	Fundamentals of Computer Programing Lab - I	0	0	4	2
9	BME151	Workshop Practice	0	0	2	1
10	BLE101	Psychology and Sociology	2	0	0	2
Total Credit						19

Semester II

Sl. No.	Course Code	Course Title	L	T	P	C
1	BMA201	Linear Algebra and Differential Equations	3	2	0	3
2	BCH101/ BCH102	Engineering Chemistry/Engineering Sciences	3	0	0	3
3	BEC101	Basic Electrical and Electronics Engineering	3	0	0	3
4	BMA251	Exploration with CAS - II	0	0	2	1
5	BCH152 / BCH153	Engineering Chemistry Lab/Engineering Sciences Lab	0	0	2	1
6	BHS251	Professional Communication Lab	0	0	2	1
7	BCS251	Application of Programing using Python	0	0	2	1
8	BEC151	Basic Electrical and Electronics Engineering Lab	0	0	2	1
9	BME152	Engineering Graphics	0	0	4	2
10	BOC253	Design and Innovation	0	0	2	1
11	BCS901	Disruptive Technologies	3	0	0	3
Total Credit						22

Semester III

Sl. No.	Course Code	Course Title	L	T	P	C
1	MATH2001	Functions of Complex Variables and Transforms	3	0	0	3
2	BTME2001	Engineering Mechanics	3	0	0	3
3	BTCE2001	Fluid Mechanics	3	0	0	3
4	BTCE2002	Surveying	3	0	0	3
5	BTCE2003	Construction Engineering	3	0	0	3
6	BTCE2004	Fluid Mechanics Lab	0	0	2	1
7	BTCE2005	Surveying Practices	0	0	2	1
8	BTCE2006	Construction Engineering Lab	0	0	2	1
9	BTCE2007	Embedded PBL-1	0	0	2	1
10	SLBT2021	English Proficiency and Aptitude Building - 3	0	0	4	2
		Total Credit				21

Semester IV

Sl. No.	Course Code	Course Title	L	T	P	C
1	MATH2003	Probability and Statistics	3	0	0	3
2	BTCE9001	Disruptive Technologies	3	0	0	3
3	BTCE2008	Mechanics of Materials	3	0	0	3
4	BTCE2009	Hydrology & Hydraulic Systems	3	0	0	3
5	BTCE2010	Water Supply & Treatment Systems	3	0	0	3
6	BTCE3003	Geotechnical Engineering	3	0	0	3
7	BTCE2011	Mechanics of Materials Lab	0	0	2	1
8	BTCE2012	Water Quality Analysis Lab	0	0	2	1
9	BTCE3006	Geotechnical Engineering Lab	0	0	2	1
10	BTCE2014	PBL-2 (Project Management)	0	0	2	1
11	SLBT2022	English Proficiency and Aptitude Building - 4	0	0	4	2
		Total Credit				24

Semester V

Sl. No.	Course Code	Course Title	L	T	P	C
1	MATH3010	Numerical Methods	2	0	0	2
2	BTCE3001	Structural Analysis	3	0	0	3
3	BTCE3002	Design of Reinforced Concrete Structures	3	0	0	3
4	BTCE3010	Transportation Engineering	3	0	0	3
5	BTCE3004	Waste Water Treatment & Disposal	3	0	0	3
6	MATH252	Numerical Methods Lab	0	0	2	1
7	BTCE3005	Structural Analysis Lab	0	0	2	1
8	BTCE3011	Transportation Engineering Lab	0	0	2	1

9	BTCE3007	PBL-3	0	0	2	1
10	SLBT3001	English Proficiency and Aptitude Building - 4 (Soft Skill-5)	0	0	4	2
11	BTCE3041	Industrial Internship - I	0	0	0	1
12	BTCE3008	CAD LAB - I (AUTOCAD) (Skill Course- 1)	0	0	4	2
Total Credit						23

Semester VI

Sl. No.	Course Code	Course Title	L	T	P	C
1	BTMG3002	Organisational Behaviour	3	0	0	3
2	BTCE3009	Design of Steel Structures	3	0	0	3
3	SLBT3002	Campus to Corporate (Soft Skill - 6)	0	0	4	2
4	BTCE3040	PBL-4 (PRIMAVERA)	0	0	2	1
5	BTCE3013	CAD Lab - II (STAAD PRO) (Skill Course- 1)	0	0	4	2
6	BTCE3014	Advanced Structural Analysis	3	0	0	3
7		Program Elective (from basket) - 1	3	0	0	3
8		Program Elective (from basket) - 2	3	0	0	3
9		Open Elective - I	3	0	0	3
10	BTCE3042	Design and Innovation	0	0	2	1
Total Credit						24

Semester VII

Sl. No.	Course Code	Course Title	L	T	P	C
1	UC23	Management Course (From Basket)	3	0	0	3
2		Program Elective (from basket) - 3	3	0	0	3
3		Program Elective (from basket) - 4	3	0	0	3
4		Program Elective (from basket) - 5	3	0	0	3
5	BTCE4002	Industrial Internship - II	0	0	0	1
6	BTCE9998	Project Work -1	0	0	6	3
7		Open Elective - II	3	0	0	3
Total Credit						19

Semester VIII

Sl. No.	Course Code	Course Title	L	T	P	C
1	BTCE9999	Project Work -2	0	0	18	9
Total Credit						9

List of Programme Elective (Engineering Courses)

S. No	Course Code	Course Name	L	T	P	C	Prerequisite
1	BTCE3015	Advanced Concrete Design	3	0	0	3	BTCE3002
2	BTCE3016	Quantity Surveying & Estimating	3	0	0	3	BTCE2003
3	BTCE3017	Bridge Engineering	3	0	0	3	BTCE3002
4	BTCE3018	Applications of Matrix Methods in Structural Analysis	3	0	0	3	BTCE3001
5	BTCE3019	Expansive Soil and Ground Improvement Techniques	3	0	0	3	BTCE3003
6	BTCE3020	Advanced Geotechnical Engineering	3	0	0	3	BTCE3003
7	BTCE3021	Highway Pavement Design	3	0	0	3	BTCE3010
8	BTCE3022	Traffic Engineering	3	0	0	3	BTCE3010
9	BTCE3023	Advanced Transportation Engineering	3	0	0	3	BTCE3010
10	BTCE3024	Ground Water Engineering	3	0	0	3	BTCE2009
11	BTCE3025	Advanced Hydrology	3	0	0	3	BTCE2009
12	BTCE3026	Pollution Control and Monitoring	3	0	0	3	BTCE3004
13	BTCE3027	Industrial Waste Treatment and Disposal	3	0	0	3	BTCE3004
14	BTCE3028	Air and Noise Pollution	3	0	0	3	