

**School Name: School of Engineering**  
**Department of Civil Engineering**  
**Programme Name: BTech Civil Engineering**  
**Scheme: 2017-2021**

**Semester I**

Sl. No.	Course Code	Course Title	L	T	P	C
1	BTCE1001	Introduction to Civil Engineering	0	0	2	1
2	BEEE1002	Basic Electrical and Electronics Engineering	3	0	0	3
3	BCSE1002	Computer Programming and Problem Solving	0	0	4	2
4	PSSO1001	Psychology and Sociology	2	0	0	2
5	MATH1001	Multivariable Calculus	3	0	0	3
6	MATH1002	Exploration with CAS- I	0	0	2	1
7	PHYS1001	Engineering Physics	3	0	0	3
8	PHYS1002	Engineering Physics Lab	0	0	2	1
9	ENVS1001	Environmental Science	3	0	0	3
10	BTME1003	Product Manufacturing	0	0	2	1
11	BEEE1003	Basic Electrical and Electronics Engineering Lab	0	0	2	1
12	SLBT-1001	Basic English (Soft Skill-1)	0	0	4	2
13	JAPA1001	Japanese-I	0	0	2	1
		<b>Total</b>				<b>24</b>

**Semester II**

Sl. No.	Course Code	Course Title	L	T	P	C
1	BCSE1003	Application Oriented Programming using Python	0	0	4	2
2	UHVE1001	Universal Human Values and Ethics	0	0	4	2
3	MATH1003	Matrices and Differential Equations	3	0	0	3
4	MATH1004	Exploration with CAS- II	0	0	2	1
5	PHYS1003	Physics of Materials	3	0	0	3
6	PHYS1005	Advanced Physics Lab	0	0	2	1
7	BTME1002	Product Design using graphics	0	0	4	2
8	CHEM1001	General Chemistry	3	0	0	3
9	CHEM1002	General Chemistry Lab	0	0	2	1
10	SLBT1002	English Proficiency and Aptitude Building-1	0	0	4	2
11	JAPA1002	Japanese-II	0	0	2	1
		<b>Total</b>				<b>68</b>

### 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	PBL-1	0	0	2	1
10	SLBT2001	English Proficiency and Aptitude Building - II	0	0	4	2
		<b>Total</b>				<b>21</b>

### Semester IV

Sl. No.	Course Code	Course Title	L	T	P	C
1	MATH2003	Probability and Statistics	3	0	0	3
2	BTME2002	Engineering Thermodynamics	3	0	0	3
3	BTCE3003	Geotechnical Engineering	3	0	0	3
4	BTCE2008	Mechanics of Materials	3	0	0	3
5	BTCE2009	Hydrology & Hydraulic Systems	3	0	0	3
6	BTCE2010	Water Supply & Treatment Systems	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	BTCE2013	PBL-2	0	0	2	1
10	SLBT2022	English Proficiency and Aptitude Building - 3 (Soft Skill - 4)	0	0	4	2
11	BTCE3006	Geotechnical Engineering Lab	0	0	2	1
		<b>Total</b>				<b>24</b>

### 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 Systems	3	0	0	3

6	MATH252	Numerical Methods Lab	0	0	2	1
7	BTCE3005	Structural Analysis Lab	0	0	2	1
8	BTCE3007	PBL-3	0	0	2	1
9	SLBT3001	English Proficiency and Aptitude Building - 4 (Soft Skill-5)	0	0	4	2
10	BTCE3008	CAD Lab - I (AUTOCAD) (Skill Course- 1)	0	0	4	2
11	BTCE3011	Transportation Engineering Lab	0	0	2	1
		<b>Total</b>				<b>22</b>

### 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	Soft Skill - 6 (Campus to Corporate)	0	0	4	2
4	BTCE3040	PBL-4 (PRIMA VEERA)	0	0	2	1
5	BTCE3013	Skill Course- 2 (CAD Lab - II)	0	0	4	2
6	BTCE3014	Advanced Structural Analysis	3	0	0	3
7	BTCE3016	Quantity Surveying & Estimating (Elective-1)	3	0	0	3
8	BTCE3026	Pollution Controlling & Monitoring (Elective-2)	3	0	0	3
9	BTCE9002	Disruptive Technologies	3	0	0	0
		<b>Total</b>				<b>20</b>

### Semester VII

Sl. No.	Course Code	Course Title	L	T	P	C
1	BSLE3001	SOCIOLOGY, SOCIETY AND CULTURE	3	0	0	3
2	BTCE3017	BRIDGE ENGINEERING	3	0	0	3
3	BTCE3025	ADVANCED HYDROLOGY	3	0	0	3
4	BTCE3027	INDUSTRIAL WASTE TREATMENT AND DISPOSAL	3	0	0	3
5	BTMG4001	PRINCIPLES OF MARKETING	3	0	0	3
6	BTCE4001	Internship	0	0	0	1
7	BTCE9998	Project Work -1	0	0	6	3
		<b>Total</b>				<b>19</b>

### Semester VIII

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

### List of Program Electives

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	