

SEMESTER I / SEMESTER II											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			CCE	SEE	Total
01.	MC	BTMD27101	Induction Programme	---	---	---	---	21 Days	---	---	---
02.	HSMC	BTAS20101	Technical Communication	2	0	0	2	2	50	50	100
03.	HSMC	BTAS20102	Technical Communication Lab	0	0	2	1	2	25	25	50
04.	HSMC	BTAS20103	Universal Human Values	2	0	0	2	2	50	50	100
05.	ESC	BTEL22101	Basic Electrical Engineering	3	0	0	3	3	50	50	100
06.	ESC	BTEL22102	Basic Electrical Engineering Lab	0	0	2	1	2	25	25	50
07.	ESC	BTME22101	Engineering Graphics and Design	1	0	0	1	1	25	25	50
08.	ESC	BTME22102	Engineering Graphics and Design Lab	0	0	4	2	4	50	50	100
09.	ESC	BTCL22101	Civil Engineering Techniques	2	0	0	2	2	50	50	100
10.	ESC	BTCL22102	Civil Engineering Techniques Lab	0	0	2	1	2	25	25	50
11.	ESC	BTCO22101	Python Programming	2	0	0	2	2	50	50	100
12.	ESC	BTCO22102	Python Programming Lab	0	0	2	1	2	25	25	50
13.	ESC	BTME22105	Manufacturing Practices and Workshop	0	0	2	1	2	25	25	50
14.	ESC	BTGN22101	Design Thinking	0	0	2	1	2	25	25	50
15.	ESC	BTME22103	Basic Mechanical Engineering	3	0	0	3	3	50	50	100
16.	ESC	BTME22104	Basic Mechanical Engineering Lab	0	0	2	1	2	25	25	50
17.	ESC	BTCH22101	Energy and Environmental Engineering	2	0	0	2	2	50	50	100
18.	ESC	BTCH22102	Energy and Environmental Engineering Lab	0	0	2	1	2	25	25	50
19.	ESC	BTCL22103	Building Workshop Lab	0	0	2	1	2	25	25	50
20.	BSC	BTAS21105	Mathematics – 1	3	1	0	4	4	50	50	100
21.	BSC	BTAS21108	Physics-Introduction to Mechanics and Thermodynamics	2	0	0	2	2	50	50	100
22.	BSC	BTAS21109	Physics-Introduction to Mechanics and Thermodynamics Lab	0	0	2	1	2	25	25	50
23.	BSC	BTAS21201	Mathematics – 2	3	1	0	4	4	50	50	100
24.	BSC	BTAS21101	Engineering Chemistry	2	0	0	2	2	50	50	100
25.	BSC	BTAS21102	Engineering Chemistry Lab	0	0	2	1	2	25	25	50
TOTAL				27	2	26	42	55	900	900	1800

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SEMESTER III											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			CCE	SEE	Total
01.	MC	BTMD27301	Indian Constitution	2	0	0	0	2	50	0	50
02.	HSMC	BTAS20301	Fundamentals of Management For Engineers	3	0	0	3	3	50	50	100
03.	ESC	BTCL22307	Mechanics of Solids (T)	3	0	0	3	3	50	50	100
04.	ESC	BTCL22308	Mechanics of Solids (P)	0	0	2	1	2	25	25	50
05.	BSC	BTAS21305	Residue Methods and Statistics	4	0	0	4	4	50	50	100
06.	PCC	BTCL23301	Fundamentals of Soil Mechanics (T)	3	0	0	3	3	50	50	100
07.	PCC	BTCL23302	Fundamentals of Soil Mechanics (P)	0	0	2	1	2	25	25	50
08.	PCC	BTCL23303	Concrete & Construction Technology (T)	2	0	0	2	2	50	50	100
09.	PCC	BTCL23304	Concrete & Construction Technology (P)	0	0	2	1	2	25	25	50
10.	PCC	BTCL23305	Fundamentals of Fluid Mechanics (T)	3	0	0	3	3	50	50	100
11.	PCC	BTCL23306	Fundamentals of Fluid Mechanics (P)	0	0	2	1	2	25	25	50
12.	MOOC	BTCL23301M	MOOCs Course – 1 (12-Weeks NPTEL Course) *	3	0	0	3	3	50	50	100
TOTAL				23	0	8	25	31	500	450	950

SEMESTER IV											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			CCE	SEE	Total
01.	HSMC	BTMD27601	IKS - I / NEP Course from Online Portal	2	0	0	0	2	50	0	50
02.	OEC	BTXX254##	Open Electives – 1	2	1	0	3	3	50	50	100
03.	PCC	BTCL23401	Surveying (T)	3	0	0	3	3	50	50	100
04.	PCC	BTCL23402	Surveying (P)	0	0	2	1	2	25	25	50
05.	PCC	BTCL23403	Building & Town Planning (T)	2	0	0	2	2	50	50	100
06.	PCC	BTCL23404	Building & Town Planning (P)	0	0	4	2	4	50	50	100
07.	PCC	BTCL23407	Structural Analysis (T)	3	0	0	3	3	50	50	100
08.	PCC	BTCL23408	Structural Analysis (P)	0	0	2	1	2	25	25	50
09.	PCC	BTCL23409	Hydrology and Water Resource Management	2	1	0	3	3	50	50	100
10.	PROJ	BTMD26401	Summer Internship – 1 (2-Weeks)	-	-	-	-	-	-	-	-
11.	MOOC	BTCL23401M	MOOCs Course – 2 (12-Weeks NPTEL Course) *	3	0	0	3	3	50	50	100
12.	MOOC	BTCL23402M	MOOCs Course – 3 (12-Weeks NPTEL Course) *	3	0	0	3	3	50	50	100
TOTAL				14	2	8	24	24	400	350	750

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SEMESTER V											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			CCE	SEE	Total
01.	HSMC	BTMD27701	IKS - II / NEP Course from Online Portal	2	0	0	0	2	50	0	50
02.	HSMC	BTGN20501	Foundations of Research and Innovation	2	1	0	3	3	25	25	50
03.	OEC	BTXX255##	Open Electives -2	2	1	0	3	3	50	50	100
04.	PCC	BTCL23501	Applied Soil Mechanics (T)	3	0	0	3	3	50	50	100
05.	PCC	BTCL23502	Applied Soil Mechanics (P)	0	0	2	1	2	25	25	50
06.	PCC	BTCL23503	Structural Design-I (T)	3	0	0	3	3	50	50	100
07.	PCC	BTCL23504	Structural Design-I (P)	0	0	2	1	2	25	25	50
08.	PCC	BTCL23505	Environment Engineering-I (T)	3	0	0	3	3	50	50	100
09.	PCC	BTCL23506	Environment Engineering-I (P)	0	0	2	1	2	25	25	50
10.	PCC	BTCL23507	Construction Management	2	1	0	3	3	50	50	100
11.	PEC	BTCL245##	Professional Elective - 1	3	0	0	3	3	50	50	100
12.	PEC	BTCL247##	Professional Elective - 4	3	0	0	3	3	50	50	100
TOTAL				23	3	6	27	32	500	450	950

SEMESTER VI											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			CCE	SEE	Total
01.	OEC	BTXX256##	Open Electives - 3	2	1	0	3	3	50	50	100
02.	PCC	BTCL23601	Structural Design-II (T)	3	0	0	3	3	50	50	100
03.	PCC	BTCL23602	Structural Design-II (P)	0	0	2	1	2	25	25	50
04.	PCC	BTCL23603	Environment Engineering-II (T)	3	0	0	3	3	50	50	100
05.	PCC	BTCL23604	Environment Engineering-II (P)	0	0	2	1	2	25	25	50
06.	PCC	BTCL23605	AI in Civil Engineering (P)	0	0	2	1	2	25	25	50
07.	PEC	BTCL246##	Professional Elective - 2	3	0	0	3	3	50	50	100
08.	PEC	BTCL246##	Professional Elective -3	3	0	0	3	3	50	50	100
09.	PROJ	BTCL26601	Project - 1	0	0	4	2	4	50	50	100
10.	PROJ	BTMD26601	Summer Internship – 2 (4-Weeks)	-	-	-	-	-	-	-	-
11.	MOOC	BTCL23601M	MOOCs Course – 4 (12-Weeks NPTEL Course)*	3	0	0	3	3	50	50	100
12.	MOOC	BTCL23602M	MOOCs Course – 5 (12-Weeks NPTEL Course)*	3	0	0	3	3	50	50	100
TOTAL				14	1	10	26	25	375	375	750

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SEMESTER VII											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			CCE	SEE	Total
01.	PROJ	BTCL26701	Project - 2	0	0	8	4	8	50	50	100
02.	PROJ	BTCL26801	Project - 3 / Internship	0	0	24	12	24	100	100	200
TOTAL				0	0	32	16	32	150	150	300
			Grand Total (Odd Sem)				89				
			Grand Total (Even Sem)				71				
			GRAND TOTAL				160				

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Open Electives – 1 (Sem-IV)											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			C	H	CCE
01.	OEC	BTCL25401	Advanced Strength of Materials	3	0	0	3	3	50	50	100
02.	OEC	BTCL25402	Remote Sensing and GIS	3	0	0	3	3	50	50	100
03.	OEC	BTCL25403	Sustainable Energy System	3	0	0	3	3	50	50	100
04.	OEC	BTCL25404	Disaster Management	3	0	0	3	3	50	50	100

Open Electives – 2 (Sem-V)											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			C	H	CCE
01.	OEC	BTCL25501	Airport System Planning	3	0	0	3	3	50	50	100
02.	OEC	BTCL25502	Fundamentals of Real Estate and Land Management	3	0	0	3	3	50	50	100
03.	OEC	BTCL25404	Disaster Management	3	0	0	3	3	50	50	100

Professional Elective – 1 (Sem-V)											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			C	H	CCE
01.	PEC	BTCL24501	Smart and Sustainable Infrastructure	3	0	0	3	3	50	50	100
02.	PEC	BTCL24502	Fluid Hydraulics	3	0	0	3	3	50	50	100
03.	PEC	BTCL24503	Environmental Geotechniques	3	0	0	3	3	50	50	100
04.	PEC	BTCL24504	Pollution Control and Waste Management	3	0	0	3	3	50	50	100
05.	PEC	BTCL24505	Modern Concrete Technology	3	0	0	3	3	50	50	100
06.	PEC	BTCL24506	Contracts Management	3	0	0	3	3	50	50	100

Open Electives – 3 (Sem-VI)											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			C	H	CCE
01.	OEC	BTCL25601	Fundamentals of Climate Change	3	0	0	3	3	50	50	100
02.	OEC	BTCL25602	Green Building and Energy Conservation	3	0	0	3	3	50	50	100
03.	OEC	BTCL25603	Smart Transportation Planning	3	0	0	3	3	50	50	100
04.	OEC	BTCL25404	Disaster Management	3	0	0	3	3	50	50	100

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Professional Elective – 2 (Sem-VI)											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			CCE	SEE	Total
01.	PEC	BTCL24601	Urban Transportation System	3	0	0	3	3	50	50	100
02.	PEC	BTCL24602	Groundwater Engineering	3	0	0	3	3	50	50	100
03.	PEC	BTCL24603	Foundation Engineering	3	0	0	3	3	50	50	100
04.	PEC	BTCL24604	Environment Management System	3	0	0	3	3	50	50	100
05.	PEC	BTCL24605	Computer Aided Structure Design	3	0	0	3	3	50	50	100
06.	PEC	BTCL24606	Railway, Bridge and Tunnel Engineering	3	0	0	3	3	50	50	100
07.	PEC	BTCL24607	Smart Metropolitan Planning	3	0	0	3	3	50	50	100

Professional Elective – 3 (Sem-VI)											
Sr. No.	Category	Subject Code	Subject Name	Teaching Scheme (In Hours)			Total Credits	Total Hours	Evaluation Scheme (Marks)		
				L	T	P			CCE	SEE	Total
01.	PEC	BTCL24608	Innovations in Transportation Engineering	3	0	0	3	3	50	50	100
02.	PEC	BTCL24609	Sustainable Water and Hydro Power System	3	0	0	3	3	50	50	100
03.	PEC	BTCL24610	Soil Improvement Techniques	3	0	0	3	3	50	50	100
04.	PEC	BTCL24611	Climate Change Adaption and Mitigation	3	0	0	3	3	50	50	100
05.	PEC	BTCL24612	Maintenance and Repair of Structure	3	0	0	3	3	50	50	100
06.	PEC	BTCL24613	Port and Harbor Engineering	3	0	0	3	3	50	50	100
07.	PEC	BTCL24608	Innovations in Transportation Engineering	3	0	0	3	3	50	50	100

