



Faculty of Engineering & Technology

B. Tech.
(Civil Engineering)
(2015-16)

Program Structure

B.Tech. (CE) Course Structure (2015-16)

Semester - I

THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BT 101	Engineering Physics-I	3	1	-	30	70	100	4
BT 102	Introduction to Computers Fundamental and IT*	3	-	-	30	70	100	3
BT 103	Applied Mathematics-I	3	1	-	30	70	100	4
BT 104	Introduction to Electrical & Electronic Engineering	3	-	-	30	70	100	3
BT 105	English & Communication Skills	3	-	-	30	70	100	3
BT 106	Engineering Chemistry	3	-	-	30	70	100	3
<i>PRACTICALS/VIVA-VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BT 107	Electrical & Electronics Lab-I	-	-	2	30	20	50	1
BT 108	Engineering Physics Lab-I	-	-	2	30	20	50	1
BT 109	IT Fundamental Lab*	-	-	2	30	20	50	1
BT 110	Engineering Chemistry Lab	-	-	2	30	20	50	1
BT 111	Engineering Workshop	-	-	2	30	20	50	1
TOTAL		18	2	10	330	520	850	25

Semester - II

THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BT 201	Engineering Physics-II	3	1	-	30	70	100	4
BT 202	Introduction to Computer Programming *	3	-	-	30	70	100	3
BT 203	Engineering Mechanics*	3	1	-	30	70	100	4
BT 204	Digital Electronics	3	-	-	30	70	100	3
BT 205	Applied Mathematics-II	3	-	-	30	70	100	3
BT 206	Environmental Sciences	3	-	-	30	70	100	3
<i>PRACTICALS/VIVA-VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BT 207	Electrical & Electronic Lab-II	-	-	2	30	20	50	1
BT 208	Engineering Physics-II	-	-	2	30	20	50	1
BT 209	Computer Programming Lab*	-	-	2	30	20	50	1
BT 210	Engineering Drawing	-	-	2	30	20	50	1
BT 211	Communication Skill Lab*	-	-	2	30	20	50	1
TOTAL		18	2	10	330	520	850	25

THIRD SEMESTER								
THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCE 301	Numerical Analysis and Statistical Techniques**	3	1	1	30	70	100	3
BTCE 302	Strength of Material and Mechanics of Solids	3	1	1	30	70	100	4
BTCE 303	Civil Engineering Building Materials **	3	1	1	30	70	100	3
BTCE 304	Engineering Geology	3	1	1	30	70	100	3
BTCE 305	Soil Mechanics	3	1	1	30	70	100	3
BTCE 306	Fluid Mechanics	3	1	1	30	70	100	4
<i>PRACTICALS/VIVA VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCE 307	Building Drawing Lab	1	1	2	30	20	50	1
BTCE 308	Fluid Mechanics Lab	1	1	2	30	20	50	1
BTCE 309	Engineering Geology Lab	1	1	2	30	20	50	1
BTCE 310	Building Material Testing Lab	1	1	2	30	20	50	1
BTCE 311	GD & Soft skill	1	1	2	30	20	50	1
	TOTAL	18	2	10	330	520	850	25

FOURTH SEMESTER								
THEORY PAPERS		No. of Teaching Hours						
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCE 401	Advanced Civil Engineering Construction Technology**	3		-	30	70	100	3
BTCE 402	Structural Analysis	3	1	-	30	70	100	4
BTCE 403	Hydraulics & Hydraulic Machines	3		-	30	70	100	3
BTCE 404	Modern Concrete Technology	3		-	30	70	100	3
BTCE 405	Surveying-I	3	1	-	30	70	100	4
BTCE 406	Geo-Technical Engineering	3		-	30	70	100	3
<i>PRACTICALS/VIVA VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCE 407	Concrete Lab	-	-	2	30	20	50	1
BTCE 408	Hydraulic Lab	-	-	2	30	20	50	1
BTCE 409	Surveying Lab	-	-	2	30	20	50	1
BTCE 410	Geo-Technical Engineering Lab	-	-	2	30	20	50	1
BTCE 411	Project Cum Seminar	-	-	2	30	20	50	1
	TOTAL	18	2	10	330	520	850	25

FIFTH SEMESTER								
THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCE 501	Transportation Engineering I	3		-	30	70	100	3
BTCE 502	Water Resources Engineering*	3		-	30	70	100	3
BTCE 503	Steel Structure-I	3		-	30	70	100	3
BTCE 504	Theory Of Structures	3	1	-	30	70	100	4
BTCE 505	Surveying II	3	1	-	30	70	100	4
GENERAL ELECTIVE –I(Choose any one)								
BTCE 506A	Foundation Engineering	3	-	-	30	70	100	3
BTCE 506B	Object Oriented Programming in C++	3	-	-	30	70	100	3
BTCE 506C	Ground Improvement Techniques	3	-	-	30	70	100	3
BTCE 506D	Advanced Construction Materials	3	-	-	30	70	100	3
<i>PRACTICALS/VIVA VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCE 507	Road Material Testing Lab	-	-	2	30	20	50	1
BTCE 508	Design Steel Structure Lab	-	-	2	30	20	50	1
BTCE 509	Foundation Engineering Lab	-	-	2	30	20	50	1
BTCE 510	Surveying Lab	-	-	2	30	20	50	1
BTCE 511	Technical Seminar I	-	-	2	30	20	50	1
BTCE512	Training Viva Voce	-	-	0	30	20	50	2
	TOTAL	18		10	360	540	900	27

SIXTH SEMESTER								
THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCE 601	Transportation Engineering II	3	1	-	30	70	100	4
BTCE 602	Concrete Structures-I	3	1	-	30	70	100	4
BTCE 603	Steel Structures II	3	1	-	30	70	100	4
BTCE 604	Water Supply Engineering	3	-	-	30	70	100	3
BTCE 605	Building Technology & Planning	3	-	-	30	70	100	3
GENERAL ELECTIVE –I(Choose any one)								
BTCE 606A	Repair and Rehabilitation of Structures	3	-	-	30	70	100	3
BTCE 606B	Advanced Geotechnical Engineering	3	-	-	30	70	100	3
BTCE 606C	Water Engineering	3	-	-	30	70	100	3
BTCE 606D	Planning and Design of Green Buildings	3	-	-	30	70	100	3
<i>PRACTICALS/VIVA VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCE 607	Concrete Design Lab	-	-	2	30	20	50	1
BTCE 608	Transportation Lab	-	-	2	30	20	50	1
BTCE 609	Building Technology Lab	-	-	2	30	20	50	1
BTCE 610	Water Supply Engineering Lab	-	-	2	30	20	50	1
BTCE611	Technical Seminar II	-	-	2	30	20	50	1
BTCE612	Surveying Camp	-	-	0	30	20	50	2
	TOTAL	18	3	10	360	540	900	28
4 -6 weeks training will be held after sixth semester, viva will be conducted in seventh sem.								

SEVENTH SEMESTER**								
THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCE 701	Major Project/ Industrial Training	1	1	1	540	360	900	28

EIGHT SEMESTER								
THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
		L	T	P	IA	EA	Total	Credits
Code	Subject/Paper							
BTCE 801	Estimation & Construction Management	3	1	-	30	80	100	4
BTCE 802	Advanced Structural Analysis	3	-	-	30	80	100	3
BTCE 803	Sanitation Engineering	3	-	-	30	80	100	3
BTCE 804	Concrete Structures -II	3	1	-	30	80	100	4
ELECTIVE(any one)								
BTCE 805A	Hydraulic Structures**	3	-	-	30	80	100	3
BTCE 805B	Water Resource System Planning	3	-	-	30	80	100	3
BTCE 805C	Project Planning & Construction Management	3	-	-	30	80	100	3
BTCE 805D	Construction Management	3	-	-	30	80	100	3
BTCE 805E	Advance Transportation Engineering	3	-	-	30	80	100	3
ELECTIVE(any one)								
BTCE 806A	Earth Quake Resistant Design & Construction**	3	-	-	30	80	100	3
BTCE 806B	Rural Water Supply & Sanitation	3	-	-	30	80	100	3
BTCE 806C	Pre-Stressed Concrete	3	-	-	30	80	100	3
BTCE 806D	Non Destructive Testing Techniques	3	-	-	30	80	100	3
BTCE 806E	Applications of Remote Sensing and GIS in Civil Engineering	3	-	-	30	80	100	3
PRACTICALS/VIVA VOCE								
		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCE 807	Advanced Structural Engineering Lab	-	-	2	30	20	50	1
BTCE 808	Computer Aided Building Design Lab	-	-	2	30	20	50	1
BTCE 809	Sanitary Engg. Lab	-	-	2	30	20	50	1
BTCE 810	Design of Concrete Structures Lab-I	-	-	2	30	20	50	1
BTCE811	Estimation & Construction Management Lab**	-	-	2	30	20	50	1
BTCE 812	Project	-	-	0	30	20	50	2
	TOTAL	18	2	10	360	600	900	27



Faculty of Engineering & Technology

B. Tech.
(Computer Science & Engineering)
(2016-17)

Program Structure

B.Tech. (CE) Course Structure (2016-17)

Semester - I

THEORY PAPERS		No. of Teaching Hour			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credit
BT 101	Engineering Physics-I	3	1	-	30	70	100	4
BT 102	Introduction to Computers Fundamental and IT*	3	-	-	30	70	100	3
BT 103	Applied Mathematics-I	3	1	-	30	70	100	4
BT 104	Introduction to Electrical & Electronic Engineering	3	-	-	30	70	100	3
BT 105	English & Communication Skills	3	-	-	30	70	100	3
BT 106	Engineering Chemistry	3	-	-	30	70	100	3
<i>PRACTICALS/VIVA-VOCE</i>		No. of Teaching Hour			Sessiona	Practical	Total	Credit
BT 107	Electrical & Electronics Lab-I	-	-	2	30	20	50	1
BT 108	Engineering Physics Lab-I	-	-	2	30	20	50	1
BT 109	IT Fundamental Lab*	-	-	2	30	20	50	1
BT 110	Engineering Chemistry Lab	-	-	2	30	20	50	1
BT 111	Engineering Workshop	-	-	2	30	20	50	1
TOTAL		18	2	10	330	520	850	25

Semester - II

THEORY PAPERS		No. of Teaching Hour			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credit
BT 201	Engineering Physics-II	3	1	-	30	70	100	4
BT 202	Introduction to computer Programming	3	-	-	30	70	100	3
BT 203	Engineering Mechanics*	3	1	-	30	70	100	4
BT 204	Digital Electronics	3	-	-	30	70	100	3
BT 205	Applied Mathematics-II	3	-	-	30	70	100	3
BT 206	Environmental Sciences	3	-	-	30	70	100	3
<i>PRACTICALS/VIVA-VOCE</i>		No. of Teaching Hour			Sessional	Practical	Total	Credit
BT 207	Electrical & Electronic Lab-II	-	-	2	30	20	50	1
BT 208	Engineering Physics Lab-II	-	-	2	30	20	50	1
BT 209	Computer Programming Lab*	-	-	2	30	20	50	1
BT 210	Engineering Drawing	-	-	2	30	20	50	1
BT 211	Communication Skill Lab*	-	-	2	30	20	50	1
TOTAL		18	2	10	330	520	850	25

THIRD SEMESTER								
THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCE 301	Advanced Engineering Mathematics	3	-	-	30	70	100	3
BTCE 302	Strength of Materials-I	3	1	-	30	70	100	4
BTCE 303	Civil Engineering Materials	3	-	-	30	70	100	3
BTCE 304	Engineering Geology	3	-	-	30	70	100	3
BTCE 305	Construction Technology	3	-	-	30	70	100	3
BTCE 306	Fluid Mechanics	3	1	-	30	70	100	4
<i>PRACTICALS/VIVA VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCE 307	Civil Engineering Materials Lab	-	-	2				1
BTCE 308	Engineering Geology Lab	-	-	2				1
BTCE 309	Building Drawing-I	-	-	2				1
BTCE 310	Fluid Mechanics Lab	-	-	2				1
BTCE 311	Professional Ethics & Disas Management	-	-	2				1
Total		18	2	10	3	5	8	25

FOURTH SEMESTER									
THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCE 401	Strength of Materials-II	3	1	-	30	70	100	4
	BTCE 402	Concrete Technology	3	-	-	30	70	100	3
	BTCE 403	Hydraulics & Hydraulic Machines	3	1	-	30	70	100	4
	BTCE 404	Surveying-I	3	1	-	30	70	100	3
	BTCE 405	Building Planning	3	-	-	30	70	100	3
	BTCE 406	Quantity Surveying & Valuation	3	1	-	30	70	100	3
<i>PRACTICALS/VIVA VOCE</i>			No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCE 407	Concrete Technology Lab	-	-	2	30	20	50	1
	BTCE 408	Hydraulics & Hydraulic Machines Lab	-	-	2	30	20	50	1
	BTCE 409	Surveying Lab-I	-	-	2	30	20	50	1
	BTCE 410	Building Drawing-II	-	-	2	30	20	50	1
	BTCE 411	Material Testing Lab	-	-	2	30	20	50	1
		TOTAL	18	2	10	330	520	850	25

FIFTH SEMESTER

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCE 501	Theory Of Structures-I	3	1	-	30	70	100	4
	BTCE 502	Environmental Engineering-I	3	1	-	30	70	100	3
	BTCE 503	Geotechnical Engineering – I	3	-	-	30	70	100	3
	BTCE 504	Surveying – II	3	1	-	30	70	100	4
	BTCE 505	Building Design	3	1	-	30	70	100	4
GENERAL ELECTIVE –I(Choose any one)									
	BTCE 506A	Ground Improvement Techniques	3	-	-	30	70	100	3
	BTCE 506B	Advanced Concrete Technology	3	-	-	30	70	100	3
	BTCE 506C	Solid Waste Management	3	-	-	30	70	100	3
PRACTICALS/VIVA VOCE									
			No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCE 507	Environmental Engineering Design & Lab. -I	1	1	2	30	20	50	1
	BTCE 508	Geotechnical Engg.-I Laboratory	1	1	2	30	20	50	1
	BTCE 509	Survey Lab. -Ii	1	1	2	30	20	50	1
	BTCE 510	Computers Aided Building Design	1	1	2	30	20	50	1
	BTCE 511	Structural Engineering Lab	1	1	2	30	20	50	1
	BTCE512	Discipline & Extra Curricular Activity	1	1	1		50	50	1
	TOTAL		18		10	360	540	900	27

SIXTH SEMESTER

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCE 601	Theory Of Structures-II	3	1	-	30	70	100	4
	BTCE 602	Geotechnical Engineering – II	3	-	-	30	70	100	3
	BTCE 603	Environmental Engineering-II	3	1	-	30	70	100	4
	BTCE 604	Design Of Concrete Structures – I	3	1	-	30	70	100	4
	BTCE 605	Transportation Engineering-I	3	1	-	30	70	100	4
GENERAL ELECTIVE –I(Choose Any One)									
	BTCE 606A	Remote Sensing And Gis	3	-	-	30	70	100	3
	BTCE 606B	Rock Mechanics	3	-	-	30	70	100	3
	BTCE 606C	Repair And Rehabilitation Of Buildings	3	-	-	30	70	100	3
		<i>Practicals/Viva Voce</i>	No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCE 607	Geotechnical Engg. Design And Laboratory. – II	-	-	2	30	20	50	1
	BTCE 608	Environmental Engineering Lab. & Design – II	-	-	2	30	20	50	1
	BTCE 609	Design Of Concrete Structures- I	-	-	2	30	20	50	1
	BTCE 610	Road Material Testing Lab	-	-	2	30	20	50	1
	BTCE 611	Technical Seminar & Project	-	-	2	30	20	50	1
	BTCE 612	Discipline & Extra Curricular Activity	-	-	-		50	50	1
		TOTAL	18	4	10	360	540	900	28

Semester - VII

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCE 701	Water Resource Engineering-I	3	-	-	30	70	100	3
	BTCE 702	Design of Steel Structures-I	3	1	-	30	70	100	4
	BTCE 703	Design of Concrete Structures-II	3	1	-	30	70	100	4
	BTCE 704	Transportation Engineering-II	3	-	-	30	70	100	3
	BTCE 705	Application of Numerical Methods in Civil Engineering	3	-	-	30	70	100	3
ELECTIVE (Choose any one)									
	BTCE 706A	Advance Transportation Engineering	3	-	-	30	70	100	3
	BTCE 706B	Design of Prestress Concrete Structures	3	-	-	30	70	100	3
	BTCE 706C	Rural Water Supply & Sanitation	3	-	-	30	70	100	3
		PRACTICALS/VIVA VOCE	No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCE 707	Design Of Water Resource Structures Lab-I	-	-	2	30	20	50	1
	BTCE 708	Steel Structures Design Lab-I	-	-	2	30	20	50	1
	BTCE 709	Concrete Structures Design Lab-II	-	-	2	30	20	50	1
	BTCE 710	Application Of Numerical Methods In Civil Engineering Lab	-	-	2	30	20	50	1
	BTCE 711	Practical Training & Industrial Visit	-	-	2	-	-	50	1
	BTCE 712	Project-I	-	-	2	30	20	50	1
	BTCE 713	Discipline & Extra Curricular Activity	-	-	-	-	-	50	1
		TOTAL	18	2	12	330	520	950	27

EIGHTH SEMESTER									
THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCE 801	Water Resource Engineering-II	3	-	-	30	70	100	3
	BTCE 802	Design of Steel Structures-II	3	1	-	30	70	100	4
	BTCE 803	Project Planning & Construction Management	3	1	-	30	70	100	4
ELECTIVE (Choose any one)									
	BTCE 804A	Bridge Engineering	3	-	-	30	70	100	3
	BTCE 804B	Advance Foundation Engineering	3	-	-	30	70	100	3
	BTCE 804C	Earthquake Resistant Construction & Design	3	-	-	30	70	100	3
		PRACTICALS/VIVA VOCE	No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCE 805	Design of Water Resource Structures Lab-II	-	-	2	30	20	50	1
	BTCE 806	Professional Practice & Estimating Lab	-	-	2	30	20	50	1
	BTCE 807	Steel Structures Design-II Lab	-	-	2	30	20	50	1
	BTCE 808	Design of Foundations Lab	-	-	2	30	20	50	1
	BTCE 809	Structural Analysis by Matrix Methods Lab	-	-	2	30	20	50	1
	BTCE 810	Seminar	-	-	4	60	40	100	2
	BTCE 811	Project-II	-	-	4	60	40	100	2
	BTCE 812	Discipline & Extra Curricular Activity	-	-	-	-	-	50	1
		TOTAL	12	2	18	390	560	900	24



Faculty of Engineering & Technology

B. Tech.
(Computer Science & Engineering)
(2017-18)

Program Structure

B.Tech. (CE) Course Structure (2017-18)

Semester - I

THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
		L	T	P	IA	EA	Total	Credits
BT 101	Engineering mathematics-I	3	1	-	30	70	100	4
BT 102	Communication Skills	3	1	-	30	70	100	4
BT 103	Engineering Physics	3	1	-	30	70	100	4
BT 104	Computer Programming-I	3	1	-	30	70	100	4
BT 105	Environmental Engineering and Disaster Management	3	1	-	30	70	100	4
<i>PRACTICALS/VIVA VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BT 107	Communication Skills Lab	-	-	2	30	20	50	1
BT 108	Engineering Physics Lab	-	-	2	30	20	50	1
BT 109	Computer Programming Lab	-	-	2	30	20	50	1
BT 110	Computer Aided Engineering Graphics	-	-	2	30	20	50	1
BT 111	Mechanical Workshop Practice	-	-	2	30	20	50	1
TOTAL		15	5	10	300	450	750	25

Semester - II

THEOR Y PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BT 201	Engineering Mathematics-II	3	1	-	30	70	100	4
	BT 202	Human Values	3	-	-	30	70	100	3
	BT 203	Engineering Chemistry	3	1	-	30	70	100	4
	BT 204	Computer Programming-II	3	-	-	30	70	100	3
		Elective (any two)*							
	BT 205A	Basic Electrical and Electronic Engineering	3	-	-	30	70	100	3
	BT 205B	Basic Civil Engineering	3	-	-	30	70	100	3
	BT 205C	Basic Mechanical Engineering	3	-	-	30	70	100	3
	BT 205D	Engineering Mechanics	3	-	-	30	70	100	3
		<i>PRACTICALS/VIVA VOCE</i>	No. of Teaching Hours			Sessiona 1	Practical	Total	Credits
	BT 206	Human Values: Activities	-	-	2	30	20	50	1
	BT 207	Engineering Chemistry Lab	-	-	2	30	20	50	1
	BT 208	Computer Programming-II Lab	-	-	2	30	20	50	1
	BT 209	Computer Aided Machine Drawing	-	-	2	30	20	50	1
		TOTAL	1 8	2	1 0	330	520	800	24

THIRD SEMESTER								
THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCE 301	Advance Engineering Mathematics -I	3	-	-	30	70	100	3
BTCE 302	Technical Communication /Managerial Economics & Financial Accounting	3	-	-	30	70	100	3
BTCE 303	Engineering Mechanics	3	-	-	30	70	100	3
BTCE 304	Surveying	3	-	-	30	70	100	3
BTCE 305	Fluid Mechanics	3	-	-	30	70	100	3
BTCE 306	Building Materials and Construction	3	-	-	30	70	100	3
BTCE 307	Engineering Geology	3	-	-	30	70	100	3
<i>PRACTICALS/VIVA VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCE 308	Surveying Lab	-	-	2	30	20	50	1
BTCE 309	Fluid Mechanics Lab	-	-	2	30	20	50	1
BTCE 310	Computer Aided Civil Engineering Drawing	-	-	2	30	20	50	1
BTCE 311	Civil Engineering Materials Lab	-	-	2	30	20	50	1
BTCE 312	Geology Lab	-	-	2	30	20	50	1
BTCE 313	Industrial Training	-	-	1	30	20	50	0.5
BTCE 314	Social Outreach, Discipline & Extra Curricular Activities	-	-	-	-	-	50	0.5
	TOTAL	21	0	11	390	610	1050	27

FOURTH SEMESTER								
THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCE 401	Advance Engineering Mathematics -II	3	1	1	30	70	100	3
BTCE 402	Managerial Economics & Financial Accounting/ Technical Communication	3	1	1	30	70	100	3
BTCE 403	Basic Electronics For Civil Engineering Applications	3	1	1	30	70	100	3
BTCE 404	Strength Of Materials	3	1	1	30	70	100	3
BTCE 405	Hydraulics Engineering	3	1	1	30	70	100	3
BTCE 406	Building Planning	3	1	1	30	70	100	3
BTCE 407	Concrete Technology	3	1	1	30	70	100	3
PRACTICALS/VIVA-VOCE		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCE 408	Material Testing Lab	1	1	2	30	20	50	1
BTCE 409	Hydraulics Engineering Lab	1	1	2	30	20	50	1
BTCE 410	Building Drawing	1	1	2	30	20	50	1
BTCE 411	Advanced Surveying Lab	1	1	2	30	20	50	1
BTCE 412	Concrete Lab	1	1	2	30	20	50	1
BTCE 413	Social Outreach, Discipline & Extra Curricular Activities	1	1	1	1	1	50	0.5
TOTAL		21	0	10	360	590	1000	26.5

FIFTH SEMESTER

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCE 501	Construction Technology And Equipment	3	-	-	30	70	100	3
	BTCE 502	Structure Analysis-I	3	-	-	30	70	100	3
	BTCE 503	Design Of Concrete Structures	3	1	-	30	70	100	4
	BTCE 504	Geotechnical Engineering	3	1	-	30	70	100	4
	BTCE 505	Water Resource Engineering	3	-	-	30	70	100	3
ELECTIVE –I(Choose any one)									
	BTCE 506A	Air & Noise Pollution And Control	3	-	-	30	70	100	3
	BTCE 506B	Disaster Management	3	-	-	30	70	100	3
	BTCE 506C	Town Planning	3	-	-	30	70	100	3
ELECTIVE –II(Choose any one)									
	BTCE 507A	Repair And Rehabilitation Of Structures	3	-	-	30	70	100	3
	BTCE 507B	Ground Improvement Techniques	3	-	-	30	70	100	3
	BTCE 507C	Energy Science And Engineering	3	-	-	30	70	100	3
		PRACTICALS/VIVA VOCE	No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCE 508	Concrete Structures Design Lab	-	-	2	30	20	50	1
	BTCE509	Geotechnical Engineering Lab	-	-	2	30	20	50	1
	BTCE 510	Water Resources Engineering Design Lab	-	-	2	30	20	50	1
	BTCE 511	Industrial Training	-	-	2	30	20	50	1
	BTCE 512	Social Outreach, Discipline & Extra Curricular Activities	-	-	-	-	-	50	1
		Total	21	2	8	330	570	950	28

SIXTH SEMESTER									
THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCE 601	Wind & Seismic Analysis	3	-	-	30	70	100	3
	BTCE 602	Structural Analysis-II	3	1	-	30	70	100	4
	BTCE 603	Environmental Engineering	3	-	-	30	70	100	3
	BTCE 604	Design Of Steel Structures	3	-	-	30	70	100	3
	BTCE 605	Estimating & Costing	3	1	-	30	70	100	4
ELECTIVE –I(Choose any one)									
	BTCE 606A	Pre-Stressed Concrete	3	-	-	30	70	100	3
	BTCE 606B	Solid And Hazardous Waste Management	3	-	-	30	70	100	3
	BTCE 606C	Traffic Engineering And Management	3	-	-	30	70	100	3
ELECTIVE –II(Choose any one)									
	BTCE 607A	Bridge Engineering	3	-	-	30	70	100	3
	BTCE 607B	Rock Engineering	3	-	-	30	70	100	3
	BTCE 607C	Geographic Information System & Remote Sensing	3	-	-	30	70	100	3
		PRACTICALS/VIVA VOCE	No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCE 608	Environmental Engineering Design And Lab	-	-	2	30	20	50	1
	BTCE 609	Steel Structure Design Lab	-	-	2	30	20	50	1
	BTCE 610	Quantity Surveying And Valuation Lab	-	-	2	30	20	50	1
	BTCE 611	Water And Earth Retaining Structures Design Lab	-	-	2	30	20	50	1
	BTCE 612	Foundation Design Lab	-	-	2	30	20	50	1
	BTCE 613	Social Outreach, Discipline & Extra Curricular Activities	-	-	-	-	-	50	1
		Total	21	2	10	360	590	1000	29

SEVENTH SEMESTER (NEW JUNE2020)

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCE701	Transportation Engineering	3	0	0	30	70	100	3
Open Elective (Choose any one)									
	BTCE702A	Human Engineering and safety	3	0	0	30	70	100	3
	BTCE702B	Environmental Engineering and Disaster management	3	0	0	30	70	100	3
	BTCE702C	Non Destructive Testing	3	0	0	30	70	100	3
		<i>PRACTICALS/VIVA VOCE</i>	No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCE703	Road Material Testing Lab	0	0	2	30	20	50	1
	BTCE704	Professional Practices & Field Engineering Lab	0	0	2	30	20	50	1
	BTCE705	Soft Skill Lab	0	0	2	30	20	50	1
	BTCE706	Environmental Monitoring And Design Lab	0	0	2	30	20	50	1
	BTCE707	Seminar	2	0	0	60	40	100	2
	BTCE708	Social Outreach, Discipline & Extra Curricular Activities	0	0	0	0	50	50	1
		total	8	0	8	240	310	550	13

EIGHT SEMESTER								
THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
		Code	Subject/Paper	L	T	P	IA	EA
BTCE801	Project Planning and Construction Management	3	0	0	30	70	100	3
Open Elective								
BTCE802A	Energy Management	3	0	0	30	70	100	3
BTCE802B	Waste And By Product Utilization	3	0	0	30	70	100	3
BTCE802C	Disaster Management	3	0	0	30	70	100	3
	<i>PRACTICALS/VIVA VOCE</i>	No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCE803	Project Planning and Construction Management lab	0	0	2	30	20	50	1
BTCE804	Pavement design	0	0	2	30	20	50	1
BTCE805	Project	3	0	0	0	50	50	1
BTCE806	Social Outreach, Discipline & Extra Curricular Activities	0	0	0	0	50	50	1
	total	9	0	4	120	280	400	10



Faculty of Engineering & Technology

B. Tech.
(Computer Science & Engineering)
(2018-19)

Program Structure

B.Tech. (CE) Course Structure (2018-19)

Semester - I

THEORY PAPERS		No. of Teaching Hours			Marks Allocation			Credits
		Code	Subject/Paper	L	T	P	IA	
BTBSC 101	Engineering Mathematics-I	3	1	-	30	70	100	4
BTBSC 102	Engineering Physics	3	1	-	30	70	100	4
BTHSMC 103	Communication Skills	2	-	-	30	70	100	2
BTESC 104	Programming for Problem Solving	2	-	-	30	70	100	2
BTESC 105A/ BTESC 105B	Basic Electrical Engineering/ Basic Civil Engineering	2	-	-	30	70	100	2
PRACTICALS/ VIVA VOCE		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTBSC 106	Engineering Physics Lab	-	-	2	30	20	50	1
BTHSMC 107	Language Lab	-	-	2	30	20	50	1
BTESC 108	Computer Programming Lab	-	-	2	30	20	50	1
BTESC109A/ BTESC109B	Basic Electrical Electronics Engineering Lab/ Basic Civil Engineering Lab	-	-	2	30	20	50	1
BTESC 110	Computer Aided Engineering Graphics Lab	-	-	2	30	20	50	1
BTSODECA 111	Discipline	-	-	-	-	-	50	1
Total		12	2	10	300	450	800	20

Semester - II

THEORY PAPERS		No. of Teaching Hou			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credit
BTBSC 201	Engineering Mathematics-II	3	1	-	30	70	100	4
BTBSC 202	Engineering Chemistry	3	1	-	30	70	100	4
BTHSMC 203	Human Values	2	-	-	30	70	100	2
BTESC 204	Basic Mechanical Engineering	2	-	-	30	70	100	2
BTESC205A/ BTESC205B	Basic Civil Engineering/ Basic Electrical Engineering	2	-	-	30	70	100	2
BTHSMC 206	Advanced English	2	-	-	30	70	100	2
PRACTICALS/ VIVA VOCE		No. of Teaching Hou			Sessional	Practical	Total	Credits
BTBSC 207	Engineering Chemistry Lab	-	-	2	30	20	50	1
BTHSMC 208	Human Values Activities	-	-	2	30	20	50	1
BTESC 209	Manufacturing Practices Workshop	-	-	2	30	20	50	1
BTESC210A/ BTESC 210B	Basic Civil Engineering Lab/ Basic Electrical Engineering Lab	-	-	2	30	20	50	1
BTESC 211	Computer Aided Machine Drawing Lab	-	-	2	30	20	50	1
BTSODECA212	Discipline	-	-	-	-	-	50	1

Semester – III

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCEBSC 301	Advance Engineering Mathematics –I	3	-	-	30	70	100	3
	BTCEHSMC 302	Technical Communication /Managerial Economics & Financial Accounting	3	-	-	30	70	100	3
	BTCEESC 303	Engineering Mechanics	3	-	-	30	70	100	3
	BTCEPCC 304	Surveying	3	-	-	30	70	100	3
	BTCEPCC 305	Fluid Mechanics	3	-	-	30	70	100	3
	BTCEPCC 306	Building Materials and Construction	3	-	-	30	70	100	3
	BTCEPCC 307	Engineering Geology	3	-	-	30	70	100	3
<i>PRACTICALS/VIVA VOCE</i>			No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCEPCC 308	Surveying Lab	-	-	2	30	20	50	1
	BTCEPCC 309	Fluid Mechanics Lab	-	-	2	30	20	50	1
	BTCEPCC 310	Computer Aided Civil Engineering Drawing	-	-	2	30	20	50	1
	BTCEPCC 311	Civil Engineering Materials Lab	-	-	2	30	20	50	1
	BTCEPCC 312	Geology Lab	-	-	2	30	20	50	1
	BTCEPSIT 313	Industrial Training	-	-	1	30	20	50	0.5
	BTCESODECA 314	Social Outreach, Discipline & Extra Curricular Activities	-	-	-	-	-	50	0.5
TOTAL			21	0	11	390	610	1050	27

Semester – IV

Theory Papers		No. Of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCEBSC401	Advance Engineering Mathematics-II	3	1	1	30	70	100	3
BTCEHSMC402	Managerial Economics & Financial Accounting/ Technical Communication	3	1	1	30	70	100	3
BTCEESC403	Basic Electronics for Civil Engineering Applications	3	1	1	30	70	100	3
BTCEPCC404	Strength Of Materials	3	1	1	30	70	100	3
BTCEPCC405	Hydraulics Engineering	3	1	1	30	70	100	3
BTCEPCC406	Building Planning	3	1	1	30	70	100	3
BTCEPCC407	Concrete Technology	3	1	1	30	70	100	3
PRACTICALS/VIVA-VOCE		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCEPCC 408	Material Testing Lab	1	1	2	30	20	50	1
BTCEPCC 409	Hydraulics Engineering Lab	1	1	2	30	20	50	1
BTCEPCC 410	Building Drawing	1	1	2	30	20	50	1
BTCEPCC 411	Advanced Surveying Lab	1	1	2	30	20	50	1
BTCEPCC 412	Concrete Lab	1	1	2	30	20	50	1
BTCECODECA 413	Social Outreach, Discipline & Extra Curricular Activities	1	1	1	1	1	50	0.5
TOTAL		21	0	10	360	590	1000	26.5

Semester – V

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCEESC 501	Construction Technology and Equipment	3	-	-	30	70	100	3
	BTCEPCC 502	Structure Analysis-I	3	-	-	30	70	100	3
	BTCEPCC 503	Design of Concrete Structures	3	-	-	30	70	100	3
	BTCEPCC 504	Geotechnical Engineering	3	-	-	30	70	100	3
	BTCEPCC 505	Water Resource Engineering	3	-	-	30	70	100	3
ELECTIVE –I(Choose any one)									
	BTCEPEC 506A	Air & Noise Pollution and Control	3	-	-	30	70	100	3
	BTCEPEC 506B	Disaster Management	3	-	-	30	70	100	3
	BTCEPEC 506C	Town Planning	3	-	-	30	70	100	3
ELECTIVE –II(Choose Any One)									
	BTCEPEC 507A	Repair and Rehabilitation of Structures	3	-	-	30	70	100	3
	BTCEPEC 507B	Ground Improvement Techniques	3	-	-	30	70	100	3
	BTCEPEC 507C	Energy Science and Engineering	3	-	-	30	70	100	3
		<i>Practical's/Viva Voce</i>	No. of Teaching Hours				Practical	Total	Credits
	BTCEPCC 508	Concrete Structures Design Lab	-	-	2	-	20	50	1
	BTCEPCC509	Geotechnical Engineering Lab	-	-	2	-	20	50	1
	BTCEPCC 510	Water Resources Engineering Design Lab	-	-	2	30	-	50	1
	BTCEPSIT 511	Industrial Training	-	-	2	30	-	50	1
	BTCESODECA 512	Social Outreach, Discipline & Extra Curricular Activities	-	-	-	-	-	50	0.5
		Total	21	-	8	330	570	950	25.5

Semester – VI

THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCEESC 601	Wind & Seismic Analysis	3	-	-	30	70	100	3
BTCEPCC 602	Structural Analysis-II	3	-	-	30	70	100	3
BTCEPCC 603	Environmental Engineering	3	-	-	30	70	100	3
BTCEPCC 604	Design of Steel Structures	3	-	-	30	70	100	3
BTCEPCC 605	Estimating & Costing	3	-	-	30	70	100	3
ELECTIVE –III(Choose any one)								
BTCEPEC 606A	Pre-Stressed Concrete	3	-	-	30	70	100	3
BTCEPEC 606B	Solid and Hazardous Waste Management	3	-	-	30	70	100	3
BTCEPEC 606C	Traffic Engineering and Management	3	-	-	30	70	100	3
ELECTIVE –IV(Choose Any One)								
BTCEPEC 607A	Bridge Engineering	3	-	-	30	70	100	3
BTCEPEC 607B	Rock Engineering	3	-	-	30	70	100	3
BTCEPEC 607C	Geographic Information System & Remote Sensing	3	-	-	30	70	100	3
<i>Practicals/Viva Voce</i>		No. Of Teaching Hours			Sessional	Practical	Total	Credits
BTCEPCC 608	Environmental Engineering Design and Lab	-	-	2	30	20	50	1
BTCEPCC 609	Steel Structure Design Lab	-	-	2	30	20	50	1
BTCEPCC 610	Quantity Surveying and Valuation Lab	-	-	2	30	20	50	1
BTCEPCC 611	Water and Earth Retaining Structures Design Lab	-	-	2	30	20	50	1
BTCEPCC 612	Foundation Design Lab	-	-	2	30	20	50	1
BTCESODECA 613	Social Outreach, Discipline & Extra Curricular Activities	-	-	-	-	-	50	0.5
Total		21	-	10	360	590	1000	26.5

Semester – VII

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCEPCC701	Transportation Engineering	3	0	0	30	70	100	3
Open Elective (Choose any one)									
	BTCEPEC702A	Human Engineering and Safety	3	0	0	30	70	100	3
	BTCEPEC702B	Environmental Engineering and Disaster Management	3	0	0	30	70	100	3
	BTCEPEC702C	Non Destructive Testing	3	0	0	30	70	100	3
		<i>PRACTICALS/VIVA VOCE</i>	No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCEPCC703	Road Material Testing Lab	0	0	2	30	20	50	1
	BTCEPCC704	Professional Practices & Field Engineering Lab	0	0	2	30	20	50	1
	BTCEPCC705	Soft Skill Lab	0	0	2	30	20	50	1
	BTCEPCC706	Environmental Monitoring And Design Lab	0	0	2	30	20	50	1
	BTCEPSIT707	Practical Training	1	0	0	60	40	100	2
	BTCEPCC708	Seminar	2	0	0	60	40	100	2
	BTCECODECA709	Social Outreach, Discipline & Extra Curricular Activities	0	0	0	0	50	50	1
		Total	8	0	8	240	310	550	15

Semester - VIII

THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCEPCC801	Project Planning and Construction Management	3	0	0	30	70	100	3
Open Elective								
BTCEPEC802A	Energy Management	3	0	0	30	70	100	3
BTCEPEC802B	Waste And By Product Utilization	3	0	0	30	70	100	3
BTCEPEC802C	Disaster Management	3	0	0	30	70	100	3
<i>PRACTICALS/VIVA VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCEPCC803	Project Planning and Construction Management lab	0	0	2	30	20	50	1
BTCEPCC804	Pavement Design	0	0	2	30	20	50	1
BTCEPSIT805	Project	3	0	0	0	350	350	1
BTCECODECA806	Social Outreach, Discipline & Extra Curricular Activities	0	0	0	0	50	50	1
	Total	9	0	4	120	280	400	10



Faculty of Engineering & Technology

B. Tech.
(Computer Science & Engineering)
(2019-20)

Program Structure

B.Tech. (CE) Course Structure (2019-20)

Semester - I

THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTBSC 101	Engineering Mathematics-I	3	1	1	30	70	100	4
BTBSC 102	Engineering Physics	3	1	1	30	70	100	4
BTHSMC 103	Communication Skills	2	1	1	30	70	100	2
BTESC 104	Programming for Problem Solving	2	1	1	30	70	100	2
BTESC 105A/ BTESC 105B	Basic Electrical Engineering/ Basic Civil Engineering	2	1	1	30	70	100	2
PRACTICALS / VIVA VOCE		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTBSC 106	Engineering Physics Lab	1	1	2	30	20	50	1
BTHSMC 107	Language Lab	1	1	2	30	20	50	1
BTESC 108	Computer Programming Lab	1	1	2	30	20	50	1
BTESC109A/ BTESC109B	Basic Electrical Engineering Lab/ Basic Civil Engineering Lab	1	1	2	30	20	50	1
BTESC 110	Computer Aided Engineering Graphics	1	1	2	30	20	50	1
BTSODECA11 1	Social Outreach, Discipline & Extra Curricular Activities	1	1	1	1	1	50	1
Total		12	2	10	300	450	800	20

Semester - II

THEORY PAPERS	Subject/Paper	No. of Teaching Hours			Marks Allocation			Credits
		L	T	P	IA	EA	Total	
BTBSC 201	Engineering Mathematics-II	3	1	1	30	70	100	4
BTBSC 202	Engineering Chemistry	3	1	1	30	70	100	4
BTHSMC 203	Human Values	2	1	1	30	70	100	2
BTESC 204	Basic Mechanical Engineering	2	1	1	30	70	100	2
BTESC205A/ BTESC205B	Basic Civil Engineering/ Basic Electrical Engineering	2	1	1	30	70	100	2
BTHSMC 206	Advanced English	2	1	1	30	70	100	2
PRACTICALS/ VIVA VOCE		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTBSC 207	Engineering Chemistry Lab	1	1	2	30	20	50	1
BTHSMC 208	Human Values Activities	1	1	2	30	20	50	1
BTESC 209	Manufacturing Practices Workshop	1	1	2	30	20	50	1
BTESC210A/ BTESC 210B	Basic Civil Engineering Lab/ Basic Electrical Engineering Lab	1	1	2	30	20	50	1
BTESC 211	Computer Aided Machine Drawing	1	1	2	30	20	50	1
BTSODECA212	Social Outreach, Discipline & Extra Curricular Activities	1	1	1	1	1	50	1

Semester – III

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCEBSC 301	Advance Engineering Mathematics –I	3	-	-	30	70	100	3
	BTCEHSMC 302	Technical Communication /Managerial Economics & Financial Accounting	3	-	-	30	70	100	3
	BTCEESC 303	Engineering Mechanics	3	-	-	30	70	100	3
	BTCEPCC 304	Surveying	3	-	-	30	70	100	3
	BTCEPCC 305	Fluid Mechanics	3	-	-	30	70	100	3
	BTCEPCC 306	Building Materials and Construction	3	-	-	30	70	100	3
	BTCEPCC 307	Engineering Geology	3	-	-	30	70	100	3
<i>PRACTICALS/VIVA VOCE</i>			No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCEPCC 308	Surveying Lab	-	-	2	30	20	50	1
	BTCEPCC 309	Fluid Mechanics Lab	-	-	2	30	20	50	1
	BTCEPCC 310	Computer Aided Civil Engineering Drawing	-	-	2	30	20	50	1
	BTCEPCC 311	Civil Engineering Materials Lab	-	-	2	30	20	50	1
	BTCEPCC 312	Geology Lab	-	-	2	30	20	50	1
	BTCEPSIT 313	Industrial Training	-	-	1	30	20	50	0.5
	BTCESODECA 314	Social Outreach, Discipline & Extra Curricular Activities	-	-	-	-	-	50	0.5
TOTAL			21	0	11	390	610	1050	27

Semester – IV

Theory Papers		No. Of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCEBSC401	Advance Engineering Mathematics-II	3	1	1	30	70	100	3
BTCEHSMC402	Managerial Economics & Financial Accounting/ Technical Communication	3	1	1	30	70	100	3
BTCEESC403	Basic Electronics for Civil Engineering Applications	3	1	1	30	70	100	3
BTCEPCC404	Strength Of Materials	3	1	1	30	70	100	3
BTCEPCC405	Hydraulics Engineering	3	1	1	30	70	100	3
BTCEPCC406	Building Planning	3	1	1	30	70	100	3
BTCEPCC407	Concrete Technology	3	1	1	30	70	100	3
PRACTICALS/VIVA-VOCE		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCEPCC 408	Material Testing Lab	1	1	2	30	20	50	1
BTCEPCC 409	Hydraulics Engineering Lab	1	1	2	30	20	50	1
BTCEPCC 410	Building Drawing	1	1	2	30	20	50	1
BTCEPCC 411	Advanced Surveying Lab	1	1	2	30	20	50	1
BTCEPCC 412	Concrete Lab	1	1	2	30	20	50	1
BTCECODECA 413	Social Outreach, Discipline & Extra Curricular Activities	1	1	1	1	1	50	0.5
TOTAL		21	0	10	360	590	1000	26.5

Semester – V

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCEESC 501	Construction Technology and Equipment	3	-	-	30	70	100	3
	BTCEPCC 502	Structure Analysis-I	3	-	-	30	70	100	3
	BTCEPCC 503	Design of Concrete Structures	3	-	-	30	70	100	3
	BTCEPCC 504	Geotechnical Engineering	3	-	-	30	70	100	3
	BTCEPCC 505	Water Resource Engineering	3	-	-	30	70	100	3
ELECTIVE –I(Choose any one)									
	BTCEPEC 506A	Air & Noise Pollution and Control	3	-	-	30	70	100	3
	BTCEPEC 506B	Disaster Management	3	-	-	30	70	100	3
	BTCEPEC 506C	Town Planning	3	-	-	30	70	100	3
ELECTIVE –II(Choose Any One)									
	BTCEPEC 507A	Repair and Rehabilitation of Structures	3	-	-	30	70	100	3
	BTCEPEC 507B	Ground Improvement Techniques	3	-	-	30	70	100	3
	BTCEPEC 507C	Energy Science and Engineering	3	-	-	30	70	100	3
		<i>Practical's/Viva Voce</i>	No. of Teaching Hours				Practical	Total	Credits
	BTCEPCC 508	Concrete Structures Design Lab	-	-	2	-	20	50	1
	BTCEPCC509	Geotechnical Engineering Lab	-	-	2	-	20	50	1
	BTCEPCC 510	Water Resources Engineering Design Lab	-	-	2	30	-	50	1
	BTCEPSIT 511	Industrial Training	-	-	2	30	-	50	1
	BTCESODECA 512	Social Outreach, Discipline & Extra Curricular Activities	-	-	-	-	-	50	0.5
		Total	21	-	8	330	570	950	25.5

Semester – VI

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCEESC 601	Wind & Seismic Analysis	3	-	-	30	70	100	3
	BTCEPCC 602	Structural Analysis-II	3	-	-	30	70	100	3
	BTCEPCC 603	Environmental Engineering	3	-	-	30	70	100	3
	BTCEPCC 604	Design of Steel Structures	3	-	-	30	70	100	3
	BTCEPCC 605	Estimating & Costing	3	-	-	30	70	100	3
ELECTIVE –III(Choose any one)									
	BTCEPEC 606A	Pre-Stressed Concrete	3	-	-	30	70	100	3
	BTCEPEC 606B	Solid and Hazardous Waste Management	3	-	-	30	70	100	3
	BTCEPEC 606C	Traffic Engineering and Management	3	-	-	30	70	100	3
ELECTIVE –IV(Choose Any One)									
	BTCEPEC 607A	Bridge Engineering	3	-	-	30	70	100	3
	BTCEPEC 607B	Rock Engineering	3	-	-	30	70	100	3
	BTCEPEC 607C	Geographic Information System & Remote Sensing	3	-	-	30	70	100	3
Practicals/Viva Voce			No. Of Teaching Hours			Sessional	Practical	Total	Credits
	BTCEPCC 608	Environmental Engineering Design and Lab	-	-	2	30	20	50	1
	BTCEPCC 609	Steel Structure Design Lab	-	-	2	30	20	50	1
	BTCEPCC 610	Quantity Surveying and Valuation Lab	-	-	2	30	20	50	1
	BTCEPCC 611	Water and Earth Retaining Structures Design Lab	-	-	2	30	20	50	1
	BTCEPCC 612	Foundation Design Lab	-	-	2	30	20	50	1
	BTCESODECA 613	Social Outreach, Discipline & Extra Curricular Activities	-	-	-	-	-	50	0.5
	Total		21	-	10	360	590	1000	26.5

Semester – VII

THEORY PAPERS	Code	Subject/Paper	No. of Teaching Hours			Marks Allocation			
			L	T	P	IA	EA	Total	Credits
	BTCEPCC701	Transportation Engineering	3	0	0	30	70	100	3
Open Elective (Choose any one)									
	BTCEPEC702A	Human Engineering and Safety	3	0	0	30	70	100	3
	BTCEPEC702B	Environmental Engineering and Disaster Management	3	0	0	30	70	100	3
	BTCEPEC702C	Non Destructive Testing	3	0	0	30	70	100	3
		<i>PRACTICALS/VIVA VOCE</i>	No. of Teaching Hours			Sessional	Practical	Total	Credits
	BTCEPCC703	Road Material Testing Lab	0	0	2	30	20	50	1
	BTCEPCC704	Professional Practices & Field Engineering Lab	0	0	2	30	20	50	1
	BTCEPCC705	Soft Skill Lab	0	0	2	30	20	50	1
	BTCEPCC706	Environmental Monitoring And Design Lab	0	0	2	30	20	50	1
	BTCEPSIT707	Practical Training	1	0	0	60	40	100	2
	BTCEPCC708	Seminar	2	0	0	60	40	100	2
	BTCECODECA709	Social Outreach, Discipline & Extra Curricular Activities	0	0	0	0	50	50	1
		Total	8	0	8	240	310	550	15

Semester - VIII

THEORY PAPERS		No. of Teaching Hours			Marks Allocation			
Code	Subject/Paper	L	T	P	IA	EA	Total	Credits
BTCEPCC801	Project Planning and Construction Management	3	0	0	30	70	100	3
Open Elective								
BTCEPEC802A	Energy Management	3	0	0	30	70	100	3
BTCEPEC802B	Waste And By Product Utilization	3	0	0	30	70	100	3
BTCEPEC802C	Disaster Management	3	0	0	30	70	100	3
<i>PRACTICALS/VIVA VOCE</i>		No. of Teaching Hours			Sessional	Practical	Total	Credits
BTCEPCC803	Project Planning and Construction Management lab	0	0	2	30	20	50	1
BTCEPCC804	Pavement Design	0	0	2	30	20	50	1
BTCEPSIT805	Project	3	0	0	0	350	350	1
BTCESODECA806	Social Outreach, Discipline & Extra Curricular Activities	0	0	0	0	50	50	1
	Total	9	0	4	120	280	400	10