

## Department of Civil Engineering

COMMON FIRST YEAR PROGRAM STRUCTURE FOR ALL B.TECH BRANCHES												
FIRST SEMESTER												
SI No.	Course Code	Course Title	Contact Hours					Evaluation Scheme		Subject Total	Credits	
								Seasonal Exam	ESE			
<b>THEORY COURSES</b>												
			L	T	P	CT	TA	Total	ESE			
1	BSCT10	Mathematics –I	3	1	0	30	20	50	100	150	4	
2	BSCT102/ BSCT103	*Physics/Chemistry	3	1	0	30	20	50	100	150	4	
3	BHST101	English	2	0	0	30	20	50	50	100	2	
4	BCST101 / BEET101	Programming for Problem Solving / Basic Electrical Engineering	3	1	0	30	20	50	100	150	4	
5	Induction Program		3 Weeks Duration									
<b>PRACTICAL / TRAINING / PROJECT</b>												
1	BSCP102/ BSCP103	Physics/ Chemistry Lab	0	0	3	-	25	25	25	50	1.5	
2	BHSP101	Language Lab	0	0	2	-	25	25	25	50	1	
3	BCSP101 / BEEP101	Programming for Problem Solving Lab / Basic Electrical Engineering			3	-	25	25	25	50	2	
		Total	11	2	8					700	17.5	
<b>SECOND SEMESTER</b>												
1	BSCT201	Mathematics –II	3	1	0	30	20	50	100	150	4	
2	BSCT202/ BSCT20	*Physics/ Chemistry	3	1	0	30	20	50	100	150	4	
3	BCST201 / BEET201	Programming for Problem Solving / Basic Electrical Engineering	3	1	0	30	20	50	100	150	4	
4	BEST201	Environmental Sciences	2	0	0	-	-	-	50	50	-	
<b>PRACTICAL / TRAINING / PROJECT</b>												
1	BSCP202/ BSCP203	Physics/ Chemistry Lab	0	0	3	-	25	25	25	50	1.5	
2	BMEP201	Workshop/ Manufacturing Practices	1	0	3	-	50	50	50	100	3	
3	BMEP202	Engineering Graphics & Design	1	0	3	-	50	50	50	100	3	
4	BCSP201 / BEEP201	Programming for Problem Solving Lab / Basic Electrical Engineering	0	0	2	-	25	25	25	50	1.5	
		Total	11	3	11	-	-	-	-	950	21	

## BACHELOR OF TECHNOLOGY (CIVIL ENGINEERING)

### THIRD SEMESTER

SI No.	Course Code	Course Title	Contact Hours						Evaluation Scheme		Subject Total	Credits
									Seasonal Exam	ESE		

#### THEORY COURSES

			L	T	P	CT	TA	Total	ESE		
1	TMA 301	Mathematics-III	3	1	0	30	20	50	100	150	4
2	THU-301	Engineering Economics	2	1	0	15	10	25	50	75	3
3	TCE 301**	Fluid Mechanics	3	1	0	30	20	50	100	150	4
4	TME 303 ##	Solid Mechanics	3	1	0	30	20	50	100	150	4
5	TCE 302	Building Material & Construction	3	1	0	30	20	50	100	150	4
6	TCE 303	Basic Surveying	2	1	0	15	10	25	50	75	3

#### PRACTICAL / TRAINING / PROJECT

1	PCE 351	Fluid Mechanics Lab	0	0	2	-	25	25	25	50	1
2	PCE 352	Building Materials Lab	0	0	2	-	25	25	25	50	1
3	PCE 353	Surveying Lab	0	0	3	-	25	25	25	50	2
4	PCE 354	Building Planning & Drawing	0	0	3	-	25	25	25	50	2
5	GP-301	General Proficiency (NSS/NCC/Sports/Cultural)	-	-	-	-	-	50	-	50	-
		<b>Total</b>	<b>16</b>	<b>6</b>	<b>10</b>					<b>1000</b>	<b>28</b>

### FOURTH SEMESTER

#### THEORY COURSES

1	TCE-401	Hydraulics & Hydraulic Machines	3	1	0	30	20	50	100	150	4
2	TCE-402	Structural Analysis-I	3	1	0	30	20	50	100	150	4
3	TCE-403	Advanced surveying	3	1	0	30	20	50	100	150	4
4	TCE-404	Engineering Geology	2	1	0	15	10	25	50	75	3
5	TCE-405	Environmental Engineering-I	2	1	0	15	10	25	50	75	3
6	TCE-406	Concrete Technology	3	1	0	30	20	50	100	150	4

#### PRACTICAL / TRAINING / PROJECT

1	PCE-451	Hydraulics & Hydraulic Machines Lab	0	0	3	-	25	25	25	50	2
2	PCE-452	Advanced Survey Field work	0	0	3	-	25	25	25	50	2
3	PCE-453	Geology lab	0	0	2	-	25	25	25	50	1
4	PCE-454	Concrete Lab	0	0	2	-	25	25	25	50	1
5	GP-401	General Proficiency (NSS/NCC/Sports/Cultural)	-	-	-	-	-	50	-	50	-
		<b>Total</b>	<b>16</b>	<b>6</b>	<b>10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1000</b>	<b>28</b>

\*\*Common to Mechanical Engineering

##Common to Mechanical, Biochemical & Chemical Engineering

## BACHELOR OF TECHNOLOGY (CIVIL ENGINEERING)

### FIFTH SEMESTER

SI No.	Course Code	Course Title	Contact Hours						Evaluation Scheme		Subject Total	Credits
									Seasonal Exam	ESE		

#### THEORY COURSES

			L	T	P	CT	TA	Total	ESE		
1	TCE-501	Design Of RC Element	3	1	0	30	20	50	100	150	4
2	TCE-502	Structural Analysis-2	3	1	0	30	20	50	100	150	4
3	TCE-503	Hydrology	3	1	0	30	20	50	100	150	4
4	TCE-504	Water Resource Engg	3	1	0	30	20	50	100	150	4
5	TCE-505	Environmental Engg-2	3	1	0	30	20	50	100	150	4
6	TCE-506	Soil Mechanics and engg geology	3	1	0	30	20	50	100	150	4

#### PRACTICAL / TRAINING / PROJECT

1	PCE-501	Structural Analysis Lab	0	0	3	10	15	25	25	50	2
2	PCE-502	Soil Mechanics Lab	0	0	3	10	15	25	25	50	2
		Total	18	6	6					1000	28

### SIXTH SEMESTER

#### THEORY COURSES

1	TCE-601	Design Of RC Structures	3	1	0	30	20	50	100	150	4
2	TCE-602	Design Of Steel Elements	3	1	0	30	20	50	100	150	4
3	TCE-603	Foundation Engineering	3	1	0	30	20	50	100	150	4
4	TCE-604	Transportation Engg-1	3	1	0	30	20	50	100	150	4
5	TCE-605	Theory & Application Of GIS & GPS	3	1	0	30	20	50	100	150	4
6	TCE-606	Principles Of Management	2	1	0	15	10	25	50	75	3

#### PRACTICAL / TRAINING / PROJECT

1	PCE-601	Environmental Lab	0	0	3	10	15	25	50	75	3
2	PCE-602	Transportation Lab	0	0	3	10	15	25	25	50	2
3	-	Discipline	0	0	2	0	0	50	0	50	-
		Total	17	6	8	-	-	-	-	1000	28

## Department of Civil Engineering

### BACHELOR OF TECHNOLOGY (CIVIL ENGINEERING)

#### SEVENTH SEMESTER

SI No.	Course Code	Course Title	Contact Hours						Evaluation Scheme		Subject Total	Credits
									Seasonal Exam	ESE		

#### THEORY COURSES

			L	T	P	CT	TA	Total	ESE		
1	TCE-701	Bridge Engineering	3	1	0	30	20	50	100	150	4
2	TCE-702	Transportation Engg. II	3	1	0	30	20	50	100	150	4
3	TCE-703	Seismology and Earthquake Engg.	3	1	0	30	20	50	100	150	4
4		Elective – I	3	1	0	30	20	50	100	150	4
5		Elective – II	3	1	0	30	20	50	100	150	4

#### PRACTICAL / TRAINING / PROJECT

1		Project	0	0	4	0	0	50	50	100	3
2		CAD Lab-I	0	0	3	10	15	25	25	50	2
3		Industrial Interaction	0	0	2	0	0	25	25	50	2
4		Seminar	0	0	2	0	0	50	-	50	1
		Total	15	5	11					1000	28

#### EIGHTH SEMESTER

#### THEORY COURSES

1		Elective – III	3	1	0	30	20	50	100	150	4
2		Elective – IV	3	1	0	30	20	50	100	150	4
3		Elective – V	3	1	0	30	20	50	100	150	4
4		Elective –VI	3	1	0	30	20	50	100	150	4

#### PRACTICAL / TRAINING / PROJECT

1		Project	0	0	6	0	0	100	200	300	6
2		Discipline	0	0	2	0	0	50	-	50	0
3		CAD Lab II	0	0	3	10	15	25	25	50	2
		Total	12	4	11	-	-	-	-	1000	28

## ELECTIVES

S.NO.	SUBJECT NAME
1	Ground Water Engineering
2	Hydro Power Engineering
3	Hydraulic Structures
4	River Engineering
5	Advance Structural Design
6	Construction Planning & Management
7	Traffic Engineering & Management
8	Advance Highway Engineering
9	Digital Image Processing
10	Air & Water Pollution
11	Environmental Impact & Risk Management
12	Environmental Management & Sustainable Development