

Semester Wise Breakup of Courses

Semester 2						
S. No.	Code	Title	L	T	P	C
1		Integral and Multiple Calculus	2	0	0	2
2		Partial Differential Equations	1	0	0	1
3		Embedded Technology and IoT	1	0	2	2
4		Waste Management	0	0	2	1
5		Environmental Science	0	0	1	0.5
6		Liberal and Creative Arts	0	0	1	0.5
7		Creativity, Innovation and Entrepreneurship	1	0	2	2
8		Application of Python Programming	0	0	2	1
9		Introduction to Digital System	2	0	2	3
10		Data Structure Using C	2	0	2	3
11		Digital Fabrication	0	0	2	1
12	BCE01T3201	Engineering Mechanics	3	0	0	3
Total Credit = 20						

Semester 4						
S. No.	Code	Title	L	T	P	C
1		Mathematics-IV (Numerical and Computational Methods)	2	0	0	2
2		Numerical and Computational Methods Lab	0	0	2	1
3		Aptitude building and Logical Reasoning - II	0	0	2	1
4		Engineering Clinic - I (IOT)	0	0	2	1
5		Communication Skill (BEC-2) - 3 credit	3	0	0	3
6	BCE01T3402	Construction Engineering	3	0	0	3
7	BCE01T3401	Structural Analysis	3	0	0	3
8	BCE01T3404	Hydrology & Hydraulic Systems	3	0	0	3
9	BCE01T3403	Geotechnical Engineering	3	0	0	3
10	BCE01P3401	Structural Analysis Lab	0	0	2	1
11	BCE01P3403	Geotechnical Engineering Lab	0	0	2	1
12	BCE01P3402	Construction Engineering Lab	0	0	2	1
Total Credit = 23						

Semester 5							Semester 6						
S. No.	Code	Title	L	T	P	C	S. No.	Code	Title	L	T	P	C
1		Engineering Economics and Management	3	0	0	3	1		Excel Training & PPT Training	0	0	1	0.5
2		Engineering Clinic - II (Machine Learning)	0	0	2	1	2	BCE01T3601	Design of Steel Structures	3	0	0	3
3		Aptitude building and Logical Reasoning - III	0	0	2	1	3		Foreign Language (German / Japanese / French)	0	0	4	2
4	BCE01T3501	Design of Reinforced Concrete Structures	3	0	0	3	4	BCE01P3605	Analysis and Design Lab (STAAD PRO)	0	0	2	1
5	BCE01T3502	Transportation Engineering - I	3	0	0	3	5		Aptitude building and Logical Reasoning - IV	0	0	2	1
6	BCE01T3503	Water Supply & Treatment Systems	3	0	0	3	6	BCE01P3606	Design and Innovation	0	0	2	1
7		Program Elective - I	2	0	0	2	7		Open Elective - I	3	0	0	3
8	BCE01P3504	CAD Lab - I (AUTOCAD)	0	0	4	2	8		Program Elective - II	2	0	0	2
9	BCE01P3502	Transportation Engineering Lab	0	0	2	1	9		Program Elective - III	2	0	0	2
10	BCE01P3503	Water Quality Analysis Lab	0	0	2	1	10	BCE01T3602	Transportation Engineering - II	3	0	0	3
11		Social Internship	0	0	2	1	11	BCE01T3603	Waste Water Treatment & Disposal Systems	3	0	0	3
12		Hobby Class	0	0	1	0.5	12	BCE01T3604	Quantity Surveying and Estimating	2	0	0	2
13	BCE01P3505	Industrial Internship - I	0	0	0	1	13	BCE01P3604	Quantity Surveying and Estimating Lab (PRIMAVERA)	0	0	2	1
Total Credit = 22.5							Total Credit = 24.5						

Semester 7							Semester 8						
S. No.	Code	Title	L	T	P	C	S. No.	Code	Title	L	T	P	C
1		Program Elective - IV	2	0	0	2	1	BCE01P3999	Capstone Phase-2	0	0	20	10
2		Program Elective - V	2	0	0	2							
3	BCE01T3701	Remote Sensing & Geographical Information System	1	0	2	2							
4		Campus to Corporate	3	0	0	3							
5		Ethics and Professional Competency	0	0	2	1							
6	BCE01P3998	Capstone Phase-1	0	0	4	2							
7		Open Elective - II	3	0	0	3							
8	BCE01P3702	Project Planning and Management Lab (PRIMAVERA)	0	0	2	1							
9	BCE01P3703	Industrial Internship - II	0	0	0	1							
Total Credit = 17							Total Credit = 10						

Total Credit = 160

List of Program Elective (Engineering Courses)

Sl. No.	Course Code	Course Title	L	T	P	C
Basket 1 (Geotechnical)						
1	BCE01T5501	Advanced Geotechnical Engineering	2	0	0	2
2	BCE01T5502	Ground Improvement Techniques	2	0	0	2
3	BCE01T5503	Soil Dynamics and Machine Foundation	2	0	0	2
4	BCE01T5504	Structures on Expansive Soils	2	0	0	2
5	BCE01T5505	Foundation Engineering	2	0	0	2
6	BCE01P5506	Mini Project	0	0	4	2
Basket 2 (Transportation)						
1	BCE01T5601	Mass Transport Management	2	0	0	2
2	BCE01T5602	Traffic Engineering	2	0	0	2
3	BCE01T5603	Highway Pavement Design	2	0	0	2
4	BCE01T5604	Pavement Constructions	2	0	0	2
5	BCE01T5605	Transportation Safety and Environment	2	0	0	2
6	BCE01P5606	Mini Project	0	0	4	2
Basket 3 (Environment)						
1	BCE01T5621	Pollution Control and Monitoring	2	0	0	2
2	BCE01T5622	Air and Noise Pollution	2	0	0	2
3	BCE01T5623	Solid Waste Management	2	0	0	2
4	BCE01T5624	Bioenergy Technologies	2	0	0	2
5	BCE01T5625	Environmental Ecology	2	0	0	2
6	BCE01P5626	Mini Project	0	0	4	2
Basket 4 (Structures)						
1	BCE01T5701	Advanced Structural Analysis	2	0	0	2
2	BCE01T5702	Rehabilitation of structures & Vaastu Principles	2	0	0	2
3	BCE01T5703	Bridge Engineering	2	0	0	2
4	BCE01T5704	Earthquake Engineering	2	0	0	2
5	BCE01T5705	Advanced Concrete Design	2	0	0	2
6	BCE01P5706	Mini Project	0	0	4	2
Basket 5 (Construction Management)						
1	BCE01T5721	Construction Planning and Management	2	0	0	2
2	BCE01T5722	Economics and Project Finance for Civil Engineers	2	0	0	2
3	BCE01T5723	Construction Contracts Administration and Management	2	0	0	2
3	BCE01T5724	Value Engineering and Valuation	2	0	0	2
3	BCE01T5725	Infrastructure Development	2	0	0	2
6	BCE01P5726	Mini Project	0	0	4	2

Total Credits to be earned from elective courses of SOCE = 10

Major Courses

Sl. No.	Course Code	Course Title	L	T	P	C
1	BCE01T3711	Pre Stressed Concrete Structures	3	0	0	3
2	BCE01T3712	Applications of Matrix Methods in Structural Analysis	3	0	0	3
3	BCE01T3713	Open Channel Hydraulics	3	0	0	3
4	BCE01T3714	Water Resources Systems Engineering	3	0	0	3
5	BCE01T3715	Transport Planning and Management	3	0	0	3
6	BCE01T3716	Industrial Waste Treatment and Disposal	3	0	0	3
		Total Credit				18