

Course Outline and Credit Distribution.

Total number of Credits : 180

Duration of Programme : 4 years

First Semester

Sl. No.	Course Title	L:T:P	Credits
1	CCC 1		3
2	Maths-1	3:1:0	4
3	Physics-1	3:1:0	4
4	Applied Chemistry	3:1:1	5
5	Engineering Mechanics	3:1:0	4
6	Problem Solving through Programming	3:0:1	4
Semester Credits			24

Second Semester

Sl. No.	Course Title	L:T: P	Credits
1	CCC 2		3
2	Maths-2	3:1:0	4
3	Physics-2	3:1:1	5
4	Bioscience	2:0:1	3
5	Engineering Graphics	1:0:1	2
6	Introduction to Electrical Engineering	3:1:1	5
Semester Credits			22

Note: 1. Please refer UG-Handbook for Information on CCC courses

2. Course outline and credit distribution may be subjected to minor change.

Third Semester

Sl. No.	Code	Course Title	L:T: P	Credits
1		CCC 3		3
2		CCC 4		3
3		Maths-3	3:0:0	3
4		Material Science and Engineering	3:0:0/1	3/4
5		Manufacturing Processes	1:0:2	3
6	CED201	Strength of Materials	3:0:1	4
7	CED202	Fluid Mechanics	3:0:1	4
Semester Credits				23/24

Fourth Semester

Sl. No.	Code	Course Title	L:T: P	Credits
1		CCC 5		3
2	CED203	Engineering Hydrology	2:0:0	2
3	CED204	Structural Analysis-1	3:0:0	3
4	CED205	Concrete Technology	3:0:1	4
5	CED206	Elements of Surveying	3:0:1	4
6	CED207	Advanced Fluid Mechanics	2:0:1	3
7	CED208	Major Elective -I	2:0:1	3
8	CED209	Seminar –I	0:0:0	NS/S
Semester Credits				22

Fifth Semester

Sl. No.	Code	Course Title	L:T: P	Credits
1		CCC 6		3
2	CED301	Structural Analysis –II	3:0:0	3
3	CED302	Geotechnical Engineering	3:0:1	4
4	CED303	Water Resource Engineering	3:0:0	3
5	CED304	Transportation Engineering	3:0:1	4
6		UWE- I	3:0:0	3
7		UWE-II	3:0:0	3
Semester Credits				23

Sixth Semester

Sl. No.	Code	Course Title	L:T: P	Credits
1		CCC 7		3
2	CED305	Foundation Engineering and Design	3:0:0	3
3	CED306	Design of RCC Structures	3:0:0	3
4	CED307	Estimating, Costing and project management	3:0:1	4
5	CED308	Environmental Engineering	3:0:1	4
6		Major Elective –II	3:0:0	3
7		UWE–III	3:0:0	3
8	CED313	Seminar –II	0:0:0	NS/S
Semester Credits				23

Seventh Semester

Sl. No.	Code	Course Title	L:T: P	Credits
1		CCC 8		3
2	CED401	Design of Steel Structures	3:0:0	3
3		Major Elective –III	3:0:0	3
4		Major Elective-IV	3:0:0	3
5		UWE-IV	3:0:0	3
6		UWE-V	3:0:1	4
7		UWE-VI	3:0:0	3
8	CED 415	Industrial Training/ Summer Internship	0:0:0	NS/S
Semester Credits				22

Eighth Semester

Sl. No.	Course Title	L:T: P	Credits
1	Project	0:0:20	20
Semester Credits			20

Tentative List of electives:

- Building Planning and Drawing
- Materials in construction
- Advanced construction techniques
- Design of structural masonry
- Advanced Surveying
- Environmental Engineering -II
- Earthquake engineering and common practices
- Introduction to climate modeling
- Stability and condition assessment of structures
- Project Planning and Management
- Ground Water Improvement Technique
- Element of Hydropower
- Introduction to FEM
- Town/Urban planning

- Analysis of tall structures
- Impact assessment of project (Case study)
- Infrastructure development and challenges
- Soil improvement techniques
- Geotechnical earthquake engineering