COURSE STRUCTURE

I Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	English – I	3+1*	--	3
2	Mathematics - I	3+1*	--	3
3	Engineering Chemistry	3+1*	--	3
4	Engineering Mechanics	3+1*	--	3
5	Environmental Studies	3+1*	--	3
6	Computer Programming	3+1*	--	3
7	Engineering Chemistry Laboratory	--	3	2
8	English – Communication Skills Lab - I	--	3	2
9	C Programming Lab	--	3	2
Total Credits				**24**

I Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	English - II	3+1*	--	3
2	Mathematics – II (Mathematical Methods)	3+1*	--	3
3	Mathematics – III	3+1*	--	3
4	Engineering Physics	3+1*	--	3
5	Professional Ethics and Human Values	3+1*	--	3
6	Engineering Drawing	1	3	3
7	English-Communication Skills Lab - II	--	3	2
8	Engineering Physics Laboratory	--	3	2
9	Engineering Physics – Virtual Labs - Assignments	--	2	--
10	Engineering Workshop & IT Workshop	--	3	2
Total Credits				**24**

II Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Electrical & Electronics Engineering	3+1*	--	3
2	Probability & Statistics	3+1*	--	3
3	Strength of Materials-I	3+1*	--	3
4	Building Materials and Construction	3+1*	--	3
5	Surveying	3+1*	--	3
6	Fluid Mechanics	3+1*	--	3
7	Surveying Field work-I	--	3	2
8	Strength of Materials Lab	--	3	2
Total Credits				**22**

II Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Building Planning & Drawing	3+1*	--	3
2	Managerial Economics and Financial Analysis	3+1*	--	3
3	Strength of Materials- II	3+1*	--	3
4	Hydraulics and Hydraulic Machinery	3+1*	--	3
5	Concrete Technology	3+1*	--	3
6	Structural Analysis - I	3+1*	--	3
7	Fluid Mechanics and Hydraulic Machinery Lab	--	3	2
8	Concrete Technology Lab	--	3	2
9	Surveying Field work-II	--	3	2
Total Credits				**24**

III Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Engineering Geology	3+1*	--	3
2	Structural Analysis – II	3+1*	--	3
3	Design and Drawing of Reinforced Concrete Structures	3+1*	--	3
4	Geotechnical Engineering – I	3+1*	--	3
5	Transportation Engineering – I	3+1*	--	3
6	IPR & Patents	3+1*	--	2
7	Geotechnical Engineering Lab	--	3	2
8	Engineering Geology Lab	--	3	2
Total Credits				**21**

III Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Design and Drawing of Steel Structures	3+1*	--	3
2	Geotechnical Engineering – II	3+1*	--	3
3	Water Resources Engineering–I	3+1*	--	3
4	Environmental Engineering – I	3+1*	--	3
5	Transportation Engineering – II	3+1*	--	3
6	**OPEN ELECTIVE**	3+1*	--	3
7	Computer Aided Engineering Drawing	--	3	2
8	Transportation Engineering Lab	--	3	2
Total Credits				**22**

IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Environmental Engineering – II	3+1*	--	3
2	Prestressed Concrete	3+1*	--	3
3	Construction Technology and Management	3+1*	--	3
4	Water Resources Engineering–II	3+1*	--	3
5	Remote Sensing and GIS Applications	3+1*	--	3
6	**ELECTIVE - I**	3+1*	--	3
7	Environmental Engineering Lab	--	3	2
8	GIS & CAD Lab	--	3	2
Total Credits				**22**

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Estimating, Specifications & Contracts	3+1*	--	3
2	**ELECTIVE –II**	3+1*	--	3
3	**ELECTIVE – III**	3+1*	--	3
4	**ELECTIVE – IV**	3+1*	--	3
5	Project Work			9
Total Credits				**21**

OPEN ELECTIVE:

a) Environmental Pollution and Control
b) Disaster Management
c) Industrial Water & Waste Water Management
d) Architecture and Town Planning
e) Finite Element Method
f) Green Technologies

Elective-I:

a) Ground Improvement Techniques
b) Air Pollution and Control
c) Matrix methods of Structural Analysis
d) Urban Hydrology
e) Advanced Surveying
f) Interior Designs and Decorations

Elective-II:

a. Engineering with Geo-synthetics
b. Environmental Impact Assessment and Management
c. Advanced Structural Engineering
d. Ground Water Development and Management
e. Traffic Engineering
f. Infrastructure Management

Elective-III:

a) Advanced foundation Engineering
b) Solid waste Management
c) Earthquake Resistant Design
d) Water Shed Management
e) Pavement Analysis and Design
f) Green Buildings

Elective-IV:

a) Soil Dynamics and Machine Foundations
b) Environmental and Industrial Hygiene
c) Repair and Rehabilitation of Structures
d) Water Resources System Planning and Management
e) Urban Transportation Planning
f) Safety Engineering
g) Bridge Engineering