



BTech (Civil Engg) Curriculum

Course Structure

Semester - I		
Sr. No.	Course Name	Credits
1	Applied Mechanics	3
2	Engineering Chemistry	3
3	Mathematics I	3
4	Engineering Graphics	3.5
5	Problem Solving Using Python	3
6	Environmental Studies	4
7	Communication Skills	1

Semester - II		
Sr. No.	Course Name	Credits
1	Engineering Physics	2
2	Engineering Physics Laboratory	1
3	Workshop Practices	1.5
4	Basic Electrical and Electronics	4
5	Mathematics II	3
6	Building planning and Drawing	3.5
7	Building Construction	3
8	Interdisciplinary Elective I	2

Semester - III		
Sr. No.	Course Name	Credits
1	Surveying	5.5
2	Solid Mechanics	5.5
3	Fluid Mechanics I	4.5
4	Engineering Geology	2
5	Critical thinking and Technical reading	1
6	Interdisciplinary Elective II	2

Semester - IV		
Sr. No.	Course Name	Credits
1	Humanities (Ethics and Values)	2
2	Theory of Structures I	3
3	Concrete Technology	4.5
4	Environmental Engineering I	3
5	Fluid Mechanics II	4.5
6	Transportation Engineering I	4.5

Semester - V		
Sr. No.	Course Name	Credits
1	Design of Structures I	4.5
2	Environmental Engineering II	4.5
3	Transportation Engineering II	3
4	Project I	2
5	Theory of Structures II	3
6	Water Resources Engineering	4.5
7	Soft Skills	1
8	Advanced Concrete and Strengthening of Structures*	3
9	Safety Considerations in Construction*	3

Semester - VI

Sr. No.	Course Name	Credits
1	Geotechnical Engineering I	4.5
2	Matrix Analysis of Framed Structures	4
3	Design of Structures II	4.5
4	Hydraulic Structures	3
5	KHOJ	3
6	Core Elective I	3
7	Codal Provisions in Civil Engineering*	3

Semester - VII

Sr. No.	Course Name	Credits
1	Estimating and Costing	4
2	Geotechnical Engineering II	3
3	Entrepreneurship	2
4	Core Elective II	3
5	Internship	2
6	Core Elective III	3
7	Project II	2
8	Advanced Construction Technology*	3
9	Construction Planning and Management *	3

Semester - VIII

Sr. No.	Course Name	Credits
1	BTech Project	14