

DEPARTMENT OF CIVIL ENGINEERING
CURRICULUM OF 2ND TO 4TH YEAR OF THE
UNDERGRADUATE ENGINEERING DEGREE PROGRAMME

2ND YEAR 1ST SEMESTER

Subject Code	Subject Name	Category	Type	Contact L-T-P	Credit	Marks
FET/BS/B/Math/T/211	Mathematics III	BS	Basic	2-1-0	3	100
CE/PC/B/ME/T/212	Fluid Mechanics	PC	Basic	3-1-0	4	100
CE/PC/B/GeoI/T/213	Engineering Geology	PC	Basic	2-0-0	2	100
CE/PC/B/T/214	Structural Mechanics I	PC	Basic	2-1-0	3	100
CE/PC/B/T/215	Surveying I	PC	Basic	3-1-0	4	100
CE/PC/B/T/216	Building Material & Construction	PC	Basic	3-0-0	3	100
CE/ES/B/ME/S/211	Engineering Drawing IIC	ES	Basic	0-0-3	1.5	100
CE/ES/B/ME/S/212	Applied Mechanics Laboratory	ES	Basic	0-0-2	1	100
CE/PC/B/ME/S/213	Fluid Mechanics Laboratory	PC	Basic	0-0-2	1	100
CE/PC/B/S/214	Building Planning & Drawing	PC	Basic	0-0-3	1.5	100
TOTAL				15-4-10	24	1000

2ND YEAR 2ND SEMESTER

Subject Code	Subject Name	Category	Type	Contact L-T-P	Credit	Marks
CE/ES/B/ME/T/221	Thermodynamics & Heat Power	ES	Basic	2-1-0	3	100
CE/PC/B/T/222	Water Resource Engineering I	PC	Basic	2-1-0	3	100
CE/PC/B/T/223	Geotechnical Engineering I	PC	Basic	3-1-0	4	100
CE/PC/B/T/224	Structural Mechanics II	PC	Basic	2-1-0	3	100
CE/PC/B/T/225	Surveying II	PC	Basic	2-1-0	3	100
CE/HS/B/T/226	Valuation, Pricing & Contract	HS	Basic	3-0-0	3	100
CE/PC/B/S/221	C E Laboratory I (Concrete / Structure)	PC	Basic	0-0-3	1.5	100
CE/PC/B/S/222	Structures Sessional	PC	Basic	0-0-2	1	100
CE/PC/B/S/223	Quantity Survey & Estimation	PC	Basic	0-0-3	1.5	100
CE/PC/B/GeoI/S/224	Engineering Geology Laboratory	ES	Basic	0-0-2	1	100
TOTAL				14-5-10	24	1000

DEPARTMENT OF CIVIL ENGINEERING
CURRICULUM OF 2ND TO 4TH YEAR OF THE
UNDERGRADUATE ENGINEERING DEGREE PROGRAMME

3RD YEAR 1ST SEMESTER

Subject Code	Subject Name	Category	Type	Contact L–T–P	Credit	Marks
CE/PC/B/T/311	Environmental Engineering I	PC	Basic	2–0–0	2	100
CE/PC/B/T/312	Water Resource Engineering II	PC	Basic	3–1–0	4	100
CE/PC/B/T/313	Theory of Structures I	PC	Basic	2–1–0	3	100
CE/PC/B/T/314	Design of Structures I	PC	Basic	3–1–0	4	100
CE/PC/B/T/315	Transportation Engineering I	PC	Basic	2–1–0	3	100
CE/PC/H/T/316	Geotechnical Engineering II	PC	Honours	2–0–0	2	100
CE/PC/B/S/311	C E Laboratory II (Concrete / Soil)	PC	Basic	0–0–3	1.5	100
CE/PC/B/S/312	Structural Design Sessional	PC	Basic	0–0–3	1.5	100
CE/PC/B/S/313	Surveying Practice – Field Work	PC	Basic	0–0–3	1.5	100
TOTAL				14–4–9	22.5	900

3RD YEAR 2ND SEMESTER

Subject Code	Subject Name	Category	Type	Contact L–T–P	Credit	Marks
CE/PC/B/T/321	Environmental Engineering II	PC	Basic	2–0–0	2	100
CE/PC/B/T/322	Theory of Structures II	PC	Basic	2–1–0	3	100
CE/PC/B/T/323	Design of Structures II	PC	Basic	3–1–0	4	100
CE/PC/B/T/324	Transportation Engineering II	PC	Basic	2–1–0	3	100
CE/HS/B/T/325	Construction Management	HS	Basic	3–0–0	3	100
	Open Elective	OE	Basic	3–0–0	3	100
CE/PC/B/S/321	C E Laboratory III (Environment / Soil)	PC	Basic	0–0–3	1.5	100
CE/PC/B/S/322	Structural Design Project I	PC	Basic	0–0–3	1.5	100
CE/PS/B/S/323	Academic Tour	PS	Basic	0–0–3	1.5	100
CE/PC/H/S/324	Advanced Surveying Laboratory	PC	Honours	0–0–4	2	100
TOTAL				15–3–13	24.5	1000

DEPARTMENT OF CIVIL ENGINEERING
CURRICULUM OF 2ND TO 4TH YEAR OF THE
UNDERGRADUATE ENGINEERING DEGREE PROGRAMME

4TH YEAR 1ST SEMESTER

Subject Code	Subject Name	Category	Type	Contact L-T-P	Credit	Marks
CE/PC/B/T/411	Environmental Engineering III	PC	Basic	2-0-0	2	100
CE/PC/B/T/412	Geotechnical Engineering III	PC	Basic	2-1-0	3	100
CE/PC/B/T/413	Theory of Structures III	PC	Basic	2-1-0	3	100
CE/PC/B/T/414	Design of Structures III	PC	Basic	3-0-0	3	100
	<u>Elective I:</u>					
CE/PE/B/T/415A	Concrete Technology	PE	Basic	2-0-0	2	100
CE/PE/B/T/415B	Advanced Solid Mechanics					
CE/PE/B/T/415C	Water Resources Engineering IE					
CE/PE/B/T/415D	Advanced Pavement Engineering					
CE/PE/B/T/415E	Ecology and Environmental Management					
CE/PE/B/T/415F	Water Quality Monitoring and Modelling					
CE/PC/H/T/416	Water Resource Engineering III	PC	Honours	1-1-0	2	100
CE/PC/B/S/411	C E Laboratory IV (Environment / Transport)	PC	Basic	0-0-3	1.5	100
CE/PS/B/S/412	Structural Design Project II	PS	Basic	0-0-3	1.5	100
CE/PS/B/S/413	Major project	PS	Basic	0-0-3	1.5	100
CE/PC/H/S/414	Advanced Structural Analysis & Design Laboratory	PC	Honours	0-0-4	2	100
TOTAL				12-3-13	21.5	1000

DEPARTMENT OF CIVIL ENGINEERING
CURRICULUM OF 2ND TO 4TH YEAR OF THE
UNDERGRADUATE ENGINEERING DEGREE PROGRAMME

4TH YEAR 2ND SEMESTER

Subject Code	Subject Name	Category	Type	Contact L-T-P	Credit	Marks
	<u>Elective II:</u>					
CE/PE/B/T/421A	Structural Dynamics	PE	Basic	2-0-0	2	100
CE/PE/B/T/421B	Wind and Earthquake Engineering					
CE/PE/B/T/421C	Advanced Foundation Engineering					
CE/PE/B/T/421D	Water Resources Engineering IIE					
CE/PE/B/T/421E	Advanced Transportation Planning					
CE/PE/B/T/421F	Advanced Water and Wastewater Treatment					
CE/PE/B/T/421G	Hazardous Waste and Its Disposal					
	<u>Elective III:</u>					
CE/PE/B/T/422A	Bridge Engineering	PE	Basic	2-0-0	2	100
CE/PE/B/T/422B	Advanced Structural Analysis and Design					
CE/PE/B/T/422C	Dynamics in Geotechnical Engineering					
CE/PE/B/T/422D	Water Resources Engineering IIIIE					
CE/PE/B/T/422E	Advanced Traffic Engineering					
CE/PE/B/T/422F	Solid And Gaseous Waste Management					
CE/PE/B/T/422G	Industrial Water Pollution And Control					
CE/PC/H/T/423	Advanced Environmental Engineering	PC	Honours	2-1-0	3	100
CE/PC/H/T/424	Theory of Structures IV	PC	Honours	2-1-0	3	100
CE/PC/H/T/425	Design of Structures IV	PC	Honours	3-1-0	4	100
CE/PC/B/S/421	C E Laboratory V (Structure / Transport)	PC	Basic	0-0-3	1.5	100
CE/PS/B/S/422	Minor Project	PS	Basic	0-0-4	2	100
CE/PS/B/S/423	Major project	PS	Basic	0-0-3	1.5	100
CE/PS/B/S/424	General Viva Voce	PS	Basic	0-0-2	1	100
CE/PS/H/S/425	Structural Design Project III	PS	Honours	0-0-4	2	100
TOTAL				11-3-16	22	1000