

Geotechnical Engineering

Course no.	Subject	L/T/P	Credits
First Semester			
CE	Advanced Soil Mechanics	4 + 0+0	4
CE	Geotechnical Exploration and Instrumentation	4 + 0+0	4
CE	Ground Treatment	4 + 0+0	4
	Elective – 1	3 + 0+0	3
	Elective – 2	3 + 0+0	3
	Elective – 3	3 + 0+0	3

CE	Soil Mechanics and Foundation Engg. laboratory	0 + 0+3	2
CE	Seminar – I	0 + 0+2	1
	I Sem Total credits		24
Second Semester			
CE	Rock Mechanics	4 + 0+0	4
CE	Foundation Analysis and Design	4 + 0+0	4
CE	Soil Dynamics and Machine Foundations	4 + 0+0	4
	Elective – 4	3 + 0+0	3
	Elective – 5	3 + 0+0	3
	Elective – 6	3 + 0+0	3

CE	Rock Mechanics laboratory	0 + 0+3	2
CE	Seminar – II	0 + 0+2	1
CE	Comprehensive Viva – voce	–	4
	II Sem Total credits		28
	Industrial Training (8 weeks) (Optional)		-
Third Semester			
CE	Dissertation Part – I		8
	III Sem Total credits		8
Fourth Semester			
CE	Dissertation Part– II		18
	IV Sem Total credits		18

	Grand Total		78

ELECTIVES OFFERED BY GEOTECH DIVISION

I – Semester (Electives 1, 2 & 3)

CE/GE/EL/1: Earth & Rock fill Dams

CE/GE/EL/2: Computational Methods in Geotechnical Engg.

CE/GE/EL/3: Soil Science

CE/GE/EL/4: Marine Geotechnical Engineering

II – Semester (Electives 4, 5 & 6)

CE/GE/EL/5: Earth Retaining Structures

CE/GE/EL/6: Design with Geosynthetics

CE/GE/EL/7: Earthquake Geotechnical Engineering

CE/GE/EL/8: Environmental Geotechniques