2-year M.Tech course curriculum Geotechnical Engineering, Department of Civil Engineering Curriculum: August 2021 onwards

Course Curriculum Semester 1

Sr. No.	Course Name	Code	Credit	Course type		
1	Advanced Soil Mechanics	CE50310	3	Department core		
2	Soil Dynamics	CE50330	3	Department core		
3	Elective I	XXXX	3	Department elective		
4	Elective II	XXXX	3	Department elective		
5	English Communication	XXXX	1	Soft skills		
Total credits				13		

Semester 2

Sr. No.	Course Name	Code	Credit	Course type
1	Advanced Foundation Engineering	CE50300	3	Department core
2	Ground Modification Techniques	CE50340	3	Department core
3	Elective III	XXXX	3	Department elective
4	Elective IV	XXXX	3	Department elective
5	Industrial Seminar		1	Life skills
Total credits			13	

Semester 3

Sr. No.	Course Name	Code	Credit	Course type
1	Master's Thesis	CE60015	12	Thesis

Semester 4

Sr. No.	Course Name	Code	Credit	Course type
1	Master's Thesis	CE60025	12	Thesis

All Electives

Course Name	Code	Credit
Introduction to Railway Engineering	CE50320	1
Design of Earth Structures	CE50352	3
Design studio	CE60302	3
Experimental Soil Mechanics	CE60323	3
Railway Geotechnics	CE60350	3
Geotechnical Earthquake Engineering	CE60360	3
Soil Structure Interaction	CE60370	3
P60392avement Geotechnics	CE60390	3
Designing with Geosynthetics	CE60392	3
In-situ Testing	CE60410	3

Finite Element Analysis		3
Computational Methods for Engineers	CH50050	2
Mathematical Methods for Engineers	ME50010	3