3-year M.Tech course curriculum
Geotechnical Engineering, Department of Civil Engineering

Course Curriculum

Semester 1

Sr. No	Course Name	Code	Credit	Course type
1	Advanced Soil Mechanics	CE50310	3	Department core
2	Elective I	XXXX	3	Department elective
3	English Communication	XXXX	1	Soft skills
Total credits			**7**	

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	Industrial Seminar	XXXX	1	Life skills
Total credits			**7**	

Semester 3

Sr. No	Course Name	Code	Credit	Course type
1	Soil Dynamics	CE5030	3	Department core
2	Elective II	XXXX	3	Department elective
3	Master's Thesis	CE60035	4	Thesis
Total credits			**10**	

Semester 4

Sr. No	Course Name	Code	Credit	Course type
1	Elective III	XXXX	3	Department elective
2	Elective IV	XXXX	3	Department elective
3	Master's Thesis	CE60035	4	Thesis
Total credits			**10**	

Semester 5

Sr. No	Course Name	Code	Credit	Course type
1	Master's Thesis	CE60035	8	Thesis

Semester 6

Sr. No	Course Name	Code	Credit	Course type
1	Master's Thesis	CE60035	8	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