

SCHOOL OF ENGINEERING					
DEPARTMENT OF CIVIL ENGINEERING					
<u>M.Tech Geotechnical Engineering\</u>					
Semester-First					
S.No.	Course Code	Course Name	Course Type	L	T
1		Professional and Communication Skills	PR	0	0
2		Advanced Soil Mechanics	PP	3	0
3		Soil Exploration and Field Testing	PP	3	0
4		Geosynthetics and Reinforced Soil Structures	PP	3	0
5		Engineering Geology & Hydrogeology	PP+TUT	3	1
6		Rock Mechanics	PP+TUT	3	1
7		Advanced Geotechnical Engineering Laboratory	PR	0	0
Total					
Semester-Second					
S.No.	Course Code	Course Name	Course Type	L	T
1		Advanced Foundation Engineering	PP+TUT	3	1
2		Earth Retaining Structures	PP+TUT	3	1
3		Geoenvironmental Engineering	PP	3	0
4		Elective – 1	PP	3	0
5		Elective – 2	PP	3	0
6		Scientific Report Writing	PR	0	0
7		Machine Learning Applications in Civil Engineering	PR	0	0
Total					
Semester-Third					
S.No.	Course Code	Course Name	Course Type	L	T
1		Soil Dynamics & Machine Foundations	PP+TUT	3	1
2		Ground Improvement Techniques	PP+TUT	3	1
3		Elective 3	PP	3	0
4		Elective 4	PP	3	0
5		Project (Phase I)	PR	0	0
6		Summer internship	PR	0	0
Total					
Semester-Fourth					
S.No.	Course Code	Course Name	Course Type	L	T
1		Project (Phase II)	PR	0	0
Total					

Overall Credits	80
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List of Electives

Sl No	Course Co	Name of the Electives	L	T	P
1		Pavement Analysis and Design	3	0	0
2		Optimization Methods	3	0	0
3		Unsaturated Soil Mechanics	3	0	0
4		Analysis and Design of Deep foundations	3	0	0
5		Transportation Geotechnics	3	0	0
6		Case Histories in Geotechnical Engineering	3	0	0
7		Forensic Geotechnical Engineering	3	0	0
8		Flow through Porous Media	3	0	0

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P	C
4	2
0	3
0	3
0	3
0	4
0	4
2	1
	20

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P	C
0	4
0	4
0	3
0	3
0	3
2	1
4	2
	20

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P	C
0	4
0	4
0	3
0	3
0	5
0	1
	20

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P	C
0	20
	20

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