

02 Yr M.Tech. Programme (Geotechnical and Geoenvironmental Engineering) with CBCS

SEMESTER I					
Sr. No.	Subject Code	Courses	L-T-P	Credits	
		<u>THEORY</u>			
1.		General Elective	3-1-0	4	GE1
2.	CE641	Engineering Behaviour of Soil	2-1-0	3	C1
3.	CE643	Site Investigation and Foundation Design	2-1-0	3	C2
4.	CE645	Ground Improvement and Geosynthetics	2-1-0	3	C3
5.		Elective-I	2-1-0	3	DSE1
6.		Open Elective	3-0-0	3	OE1
		<u>PRACTICALS</u>			
7.	CE653	Soil Engineering Lab	0-0-3	2	C4
8.	CE611	Seminar	0-0-3	2	SEC1
9.	GP	General Proficiency		Non-Credit	
		Total	14-5-6	23	
		Total Contact Hours		25	

Elective-I

1. CE647: Finite Elements Method in Geotechnical Engineering
2. CE649: Soil Dynamics and Earthquake Geotechnical Engineering

General Elective

1. MA 406 Operation Research
2. MA 507 Optimization Techniques
3. MA402 Modelling and Simulation

Open Elective

Courses offered from other school

02 Yr M.Tech. Programme (Geotechnical and Geoenvironmental Engineering) with CBCS

SEMESTER II					
Sr. No.	Subject Code	Courses	L-T-P	Credits	
		<u>THEORY</u>			
1.	CE642	Slopes and Retaining Structures	3-1-0	4	C5
2.	CE644	Soil-Structure Interaction Analysis	2-1-0	3	C6
3.	CE646	Geotechnology of Waste Disposal Facilities	3-1-0	4	C7
4.	CE648	Offshore Geotechnical Engineering	3-1-0	4	C8
5.		Specialization Elective-I	3-1-0	4	DSE2
		<u>PRACTICALS</u>			
7.	CE656	Geoenvironmental and Geotechnical Engg Lab	0-0-3	2	C9
8.	CE616	Project	0-0-10	5	DP1
9.	GP	General Proficiency		Non-Credit	
		Total	14-5-13	26	
		Total Contact Hours		32	

Specialization Elective-I (DSE 2)

1. CE652: Constitutive Modelling in Geotechnics
2. CE654: Earthquake Design of Resistant Structure

02 Yr M.Tech. Programme (Geotechnical and Geoenvironmental Engineering) with CBCS

SEMESTER III					
Sr. No.	Subject Code	Courses	L-T-P	Credits	
		<u>THEORY</u>			
1.	CE741	Emerging Topics in Geotechnical Engineering	2-1-0	3	C10
2.	CE743	Advanced Soil Mechanics	3-1-0	4	C11
3.		Specialization Elective-II	3-1-0	4	DSE3
		<u>PRACTICALS</u>			
4.	CE617	Dissertation Part-I	2-0-16	8	DP2
5.	GP	General Proficiency		Non-Credit	
		Total	10-3-16	19	
		Total Contact Hours		29	

Specialization Elective-II (DSE3)

1. CE745: Fracture Mechanics
2. CE747: Rock Mechanics and Tunnelling

SEMESTER IV					
Sr. No.	Subject Code	Courses	L-T-P	Credits	
		<u>THEORY</u>			
1.	CE720	Dissertation Part-II	2-0-16	22	DP3
2.	GP	General Proficiency	-	Non-Credit	
		Total		22	
		Total Contact Hours		-	

Grand Total Credits: 90