

BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI

REVISED COURSE STRUCTURE - To be effective from academic session 2021-22

Based on CBCS & OBE Model

Recommended scheme for M.Tech in SOIL MECHANICS & FOUNDATION ENGINEERING

SEMESTER / Session of Study (Recommended)	Course Level	Category of Course	Course Code	Courses	Mode of delivery & credits <i>L-Lecture; T-Tutorial;P-Practicals</i>			
					L <i>(Periods/week)</i>	T <i>(Periods/week)</i>	P <i>(Periods/week)</i>	
THEORY								
FIRST / Monsoon	Fifth	Programme Core (PC)	CE501	Advanced Solid Mechanics	3	0	0	
			CE515	Advanced Soil Mechanics	3	0	0	
			CE516	Advanced Foundation Engineering	3	0	0	
			CE523	Rock Mechanics & Tunneling	3	0	0	
		Programme Elective (PE)		PE 1	3	0	0	
	LABORATORIES							
		Fifth	Programme Core (PC)	CE517	Soil Mechanics Laboratory - I	0	0	4
				CE505	Numerical Analysis Laboratory	0	0	4
	TOTAL							
	SECOND/ Spring	Fifth	Programme Core (PC)	CE518	Dynamics of Soils and Foundations	3	0	0
CE519				Sub-surface Investigation	3	0	0	
CE520				Earth & Earth Retaining Structures	3	0	0	
			Programme Elective (PE)		PE II	3	0	0
					PE III	3	0	0
LABORATORIES								
		Fifth	Programme Core (PC)	CE521	Soil Mechanics Laboratory - II	0	0	4
				CE522	Advanced Instrumentation Laboratory	0	0	4
TOTAL								
THIRD / Monsoon		Sixth	Programme Core (PC)	CE525	Thesis (Part I)			
	Open Elective (OE)			OE I / MOOC	3	0	0	
				OE II / MOOC	3	0	0	
	TOTAL							
FOURTH/ Spring	Sixth	Programme Core (PC)	CE526	Thesis (Part II)				
	TOTAL							
GRAND TOTAL FOR M.TECH PROGRAMME (38 + 30)								

Total Credits
<i>C- Credits</i>
C
3
3
3
3
3
2
2
19
3
3
3
3
3
2
2
19
8
3
3
14
16
16
68

