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 (Recomended)	Course Level	Category of Course	Course Code	Courses	Mode of delivery & credits *L-Lecture; T-Tutorial;P-Practicals*			Total Credits *C-Credits*
					L *(Periods/week)*	**T** *(Periods/week)*	**P** *(Periods/week)*	**C**
				THEORY				
FIRST / Monsoon	Fifth	Programme Core (PC)	CE501	**Advanced Solid Mechanics**	3	0	0	3
			CE515	**Advanced Soil Mechanics**	3	0	0	3
			CE516	**Advanced Foundation Engineering**	3	0	0	3
			CE523	**Rock Mechanics & Tunneling**	3	0	0	3
		Programme Elective (PE)		**PE 1**	3	0	0	3
				LABORATORIES				
	Fifth	Programme Core (PC)	CE517	Soil Mechanics Laboratoey - I	0	0	4	2
			CE505	**Numerical Analysis Laboratory**	0	0	4	2
				TOTAL				19

SECOND/ Spring	Fifth	Programme Core (PC)	CE518	Dynamics of Soils and Foundations	3	0	0	3
			CE519	Sub-surface Investigation	3	0	0	3
			CE520	Earth & Earth Retaining Structures	3	0	0	3
		Programme Elective (PE)		PE II	3	0	0	3
				PE III	3	0	0	3
		LABORATORIES						
	Fifth	Programme Core (PC)	CE521	Soil Mechanics Laboratory - II	0	0	4	2
			CE522	Advanced Instrumentation Laboratory	0	0	4	2
		TOTAL						19
THIRD / Monsoon	Sixth	Programme Core (PC)	CE525	Thesis (Part I)				8
		Open Elective (OE)		OE I / MOOC	3	0	0	3
				OE II / MOOC	3	0	0	3
		TOTAL						14
FOURTH/ Spring	Sixth	Programme Core (PC)	CE526	Thesis (Part II)				16
		TOTAL						16
GRAND TOTAL FOR M.TECH PROGRAMME (38 + 30)								68