## BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI

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

## **Based on CBCS & OBE Model**

## Recommended scheme of study for M.Tech Structural 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
				TH	IEORY	, , , , , , , , , , , , , , , , , , ,		•
FIRST / Monsoon	Fifth	Programme Core (PC)	CE 501	Advanced Solid Mechanics	3	0	0	3
			CE 502	Advanced Structural Analysis	3	0	0	3
			CE 503	Structural Dynamics	3	0	0	3
			CE511	Advanced Concrete Technology	3	0	0	3
		Programme Elective (PE)		PE 1	3	0	0	3
		LABORATORIES						•
	Fifth	Programme Core (PC)	CE504	Structural Design Laboratory – I	0	0	4	2
			CE505	Numerical Analysis Laboratory	0	0	4	2
					ГОТАЬ	ļ.		19
SECOND/ Spring	Fifth	Programme Core (PC)	CE506	Finite Element Method	3	0	0	3
			CE507	Theory of Plates and Shells	3	0	0	3
			CE508	Earthquake Engineering	3	0	0	3
		Programme		PE II	3	0	0	3
		Elective (PE)		PE III	3	0	0	3
		LABORATORIES						
	Fifth	Programme Core (PC)	CE509	Structural Design Laboratory – II	0	0	4	2
			CE510	CAD in Structural Engineering	0	0	4	2
		TOTAL						19
THIRD / Monsoon	Sixth	Programme Core (PC)		Thesis (Part I)				8
		Open		OE I / MOOC				3
		Elective (OE)		OE II / MOOC				3
				,	ГОТАL			14
FOURTH/	Sixth	Programme Core (PC)		Thesis (Part II)				16
Spring		TOTAL						16
		GRAND TOTA	L FOR M.TE	CH PROGRAMI	ME (38 + 30)			68

