	NEWC		RUCTURE - Based on C	F TECHNOLOGY To be effective from BCS system & OBI (Structural Engined	m academic se E model		19		
SEMESTER / Session of Study (Recomended)	Course Level	Category of course	Course Code		Mode of delivery & credits L-Lecture; T-Tutorial;P-Practical			Total Credits C- Credits	
					L (Periods/week)	T (Periods/week)	P (Periods/week)	С	
FIRST /		PC PE	CE501	Advanced Solid Mechanics	3	0	0	3	
			CE502	Advanced Structural Analysis	3	0	0	3	
	FIFTH		CE503	Structural Dynamics	3	0	0	3	
				Programme Elective – I	3	0	0	3	
Monsoon		OE		Open Elective – I	3	0	0	3	
		LABORATORY							
		РС	CE504	Structural Design Laboratory – I	0	0	4	2	
	FIFTH		CE505	Numerical Analysis Laboratory	0	0	4	2	
				TOTAL				19	
		ł							
	FIFTH	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	
SECOND/		PE		Programme Elective – II	3	0	0	3	
Spring		OE		Open Elective – II	3	0	0	3	
		LABORATORY							
	FIFTH	РС	CE509	Structural Design Laboratory – II	0	0	4	2	
			CE510	CAD in Structural Engineering	0	0	4	2	
				TOTAL			1	19	
		+	TOTAL F	OR FIRST YEAR				38	
	FIFTH	PE	CE511	Advanced Concrete Technology	3	0	0	3	
				Programme Elective – III	3	0	0	3	
THIRD/		LABORATORY							
Monsoon	FIFTH	PC	CE512	Advanced Concrete Laboratory	0	0	4	2	
			CE513	Thesis Part 1				8	
				TOTAL		•		16	
FOURTH/ Spring	FIFTH	PC	CE514	Thesis Part 2				16	
				TOTAL		<u>.</u>		16	
TOTAL FOR SECOND YEAR							32		
		GRAM	D TOTAL FOR M	TECH PROGRAMME (38 +	32)			70	

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING PROGRAMME ELECTIVES (PE) OFFERED FOR M.Tech. (Structural Engineering)									
PE / LEVEL	Code no.	Name of the PE subjects with code		L	Т	Р	С		
5	CE541	Analytical and Numerical Methods		3	0	0	3		
5	CE542	Bridge Engineering		3	0	0	3		
5	CE543	Design of High Rise Structure		3	0	0	3		
5	CE544	Design of Industrial Structure		3	0	0	3		
5	CE545	Design of Plates and Shells	CE507:Theory of Plates and Shells	3	0	0	3		
5	CE546	Fracture Mechanics	CE 501:Advanced Solid Mechanic	3	0	0	3		
5	CE547	Pre-Stressed Concrete		3	0	0	3		
5	CE548	Soil Structure Interaction	CE 503:Structural Dynamics	3	0	0	3		
5	CE549	Structural Design of Foundation		3	0	0	3		
5	CE550	Structural Health Monitoring	CE 503:Structural Dynamics	3	0	0	3		
5	CE551	Structural Optimization		3	0	0	3		
5	CE552	Theory of Structural Stability		3	0	0	3		
* PROGRAMME ELECTIVES TO BE OPTED ONLY BY THE DEPARTMENT STUDENTS									

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING OPEN ELECTIVES (OE)* OFFERED FOR LEVEL 5-6

OE / LEVEL	Code no.	Name of the OE subjects	Prerequisites Subjects with code	L	Т	Р	С
5	CE575	Environmental and Natural Resource Management		3	0	0	3
5	CE576	Environmental Science and Management		3	0	0	3
5	CE577	Industrial Pollution Control		3	0	0	3
5	CE578	Waste Management		3	0	0	3

* OPEN ELECTIVES TO BE OPTED ONLY BY OTHER DEPARTMENT STUDENTS