Programme Code: CES

## **Master of Technology** in **Structural Engineering** Department of Civil Engineering

## The overall credits structure

Category	PC	PE	ос	Total
Credits	42	12	0	54

Program Core				CVL767	Design of Fiber Reinforced Composite	3	0	0	3		
CVD757	Major Project Part-I (CES)	0	0	18	39		Structures				
CVD758	Major Project Part-II (CES)	0	0	18	39	CVL768	Design of Masonry Structures	3	0	0	3
CVL756	Advanced Structural Analysis	3	0	0	3	CVL769	Design of Tall Buildings	3	0	0	3
CVL757	Finite Element Methods in Structural	2	0	2	3	CVL770	Prestressed and Composite Structures	2	0	2	3
	Engineering					CVL856	Strengthening and Retrofitting of Structures	3	0	0	3
CVL758	Solid Mechanics in Structural Engineering	3	0	0	3	CVL857	Structural Safety and Reliability	3	0	0	3
CVL759	Structural Dynamics	3	0	0	3	CVL858	Theory of Plates and Shells	3	0	0	3
CVL760	Theory of Concrete Structures	3	0	0	3	CVL859	Theory of Structural Stability	3	0	0	3
CVL761	Theory of Steel Structures	3	0	0	3	CVL860	Advanced Finite Element Method and	2	0	2	3
CVL762	Earthquake Analysis and Design	3	0	0	3		Programming				
CVP756	Structural Engineering Laboratory	0	0	6	3	CVL861	Analysis and Design of Machine Foundations	2	0	2	3
	Total Credits				42	CVL862	Design of Offshore Structures	3	0	0	3
						CVL863	General Continuum Mechanics	3	0	0	3
Program Electives						CVL864	Structural Health Monitoring	3	0	0	3
CVD756	Minor Project in Structural Engineering	0	0	6	3	CVL865	Structural Vibration Control	3	0	0	3
CVL763	Analytical and Numerical Methods for		0		3	CVL866	Wind Resistant Design of Structures	3	0	0	3
	Structural Engineering					CVS756	Independent Study (CES)	0	3	0	3
CVL764	Blast Resistant Design of Structures	2	0	2	3	CVL771	Advance Concrete Technology	3	0	0	3
CVL765	Concrete Mechanics	3	0	0	3	CVL873	Fire Engineering and Design	3	0	0	3
CVL766	Design of Bridge Structures	3	0	0	3	CVL779	Formwork for Concrete Structures	3	0	0	3
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C		Courses				Lecture	Contact h/week					
Sem.		(Number, abbreviated title, L-T-P, credits)					L	Т	P Total		Credits	
I	CVL756 Advanced Structural Analysis (3-0-0) 3	CVL759 Structural Dynamics (3-0-0) 3	CVL757 Finite Element Methods in Structural Engineering (2-0-2) 3	CVL758 Solid Mechanics in Structural Engineering (3-0-0) 3	PE-1 (3-0-0) 3 or (2-0-2) 3	5	(13, 14)	0	(2,4)	(16, 17)	15	
II	CVP756 Structural Engineering Laboratory (0-0-6) 3	CVL762 Earthquake Analysis and Design (3-0-0) 3	CVL760 Theory of Concrete Structures (3-0-0) 3	CVL761 Theory of Steel Structures (3-0-0) 3	PE-2 (3-0-0) 3 or (2-0-2) 3	4	(11, 12)	0	(6,8)	(18, 19)	15	
Summer			,									
III	CVD757 Major Project Part I (CES) (0-0-18) 9	PE-3 (3-0-0) 3 or (2-0-2) 3	PE-4 (3-0-0) 3 or (2-0-2) 3			2	(4,6)	0	(18, 22)	(24, 26)	15	
IV	CVD758 Major Project Part II (CES) (0-0-18) 9					0	0	0	18	18	9	