Lesson Plan & Work-done Diary for AY:2021-22, Even Semester

Course with Code: Design of RCC Structures -BCV601					Faculty: Dr.Jyothi D N		Semester & Section: 6th	
Module	**Class No.**	**Date planned (DD/MM)**	**Topics to be covered**	**TLP Planned**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
MODULE-1	1		Introduction to working stress and limit State Design: Introduction to working stress method, Difference between Working stress and Limit State Method of design	PPT		Introduction to working stress and limit State Design: Introduction to working stress method, Difference between Working stress and Limit State Method of design	PPT	
	2		Philosophy and principle of limit state design with assumptions, Partial Safety factors, Characteristic load and strength	PPT		Philosophy and principle of limit state design with assumptions, Partial Safety factors, Characteristic load and strength	PPT	
	3		Stress block parameters, concept of balanced section, under reinforced and over reinforced section	PPT		Stress block parameters, concept of balanced section, under reinforced and over reinforced section	PPT	
	4		Deflection-Limiting deflection, short term deflection, long term deflection, Calculation of deflection of singly reinforced beam-design procedure	PPT		Deflection-Limiting deflection, short term deflection, long term deflection, Calculation of deflection of singly reinforced beam-design procedure	PPT	
	5		Design Problem	Chalk and Talk		Design Problem	Chalk and Talk	
	6		Design Problem	Chalk and Talk		Design Problem	Chalk and Talk	
	7		Design Problem	Chalk and Talk		Design Problem	Chalk and Talk	
	8		Design Problem	Chalk and Talk		Design Problem	Chalk and Talk	

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Module 2	9		Limit State Analysis of Beams - Introduction	Chalk and Talk		Limit State Analysis of Beams - Introduction	Chalk and Talk	
	10		Analysis of singly reinforced flexure-design examples	Chalk and Talk		Analysis of singly reinforced flexure-design examples	Chalk and Talk	
	11		Analysis of singly reinforced flexure-design examples	Chalk and Talk		Analysis of singly reinforced flexure-design examples	Chalk and Talk	
	12		Analysis of doubly reinforced - procedure	Chalk and Talk		Analysis of doubly reinforced - procedure	Chalk and Talk	
	13		Analysis of doubly reinforced section-design problems	Chalk and Talk		Analysis of doubly reinforced section-design problems	Chalk and Talk	
	14		Design example	Chalk and Talk		Design example	Chalk and Talk	
	15		Design example	Chalk and Talk		Design example	Chalk and Talk	
	16		Design example	Chalk and Talk		Design example	Chalk and Talk	
	17		Design example	Chalk and Talk		Design example	Chalk and Talk	
	18		Design example	Chalk and Talk		Design example	Chalk and Talk	

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MODULE-3	19		Module-3 Introduction to Limit state Design of Beams, Design of singly reinforced beams-procedure	Chalk and Talk		Module-3 Introduction to Limit state Design of Beams, Design of singly reinforced beams-procedure	Chalk and Talk	
	20		Design of Singly Reinforced beams - Design examples	Chalk and Talk		Design of Singly Reinforced beams - Design examples	Chalk and Talk	
	21		Design examples	Chalk and Talk		Design examples	Chalk and Talk	
	22		Design of Doubly reinforced beams	Chalk and Talk		Design of Doubly reinforced beams	Chalk and Talk	
	23		Design of Doubly reinforced beams- Design problems	Chalk and Talk		Design of Doubly reinforced beams- Design problems	Chalk and Talk	
	24		Design of Flanged beams -T beams - Design examples	Chalk and Talk		Design of Flanged beams -T beams - Design examples	Chalk and Talk	
	25		Design of Flanged beams- L-beams - Design examples	Chalk and Talk		Design of Flanged beams- L-beams - Design examples	Chalk and Talk	
	26		Design for combined bending and torsion as per IS-456	Chalk and Talk		Design for combined bending and torsion as per IS-456	Chalk and Talk	
	27		Design for combined bending and torsion as per IS-456	Chalk and Talk		Design for combined bending and torsion as per IS-456	Chalk and Talk	

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MODULE-4	28		**Module-4** Introduction to design of slabs, Design of one-way slabs simply supported	Chalk and Talk		**Module-4** Introduction to design of slabs, Design of one-way slabs simply supported	Chalk and Talk	
	29		Design of one-way slab with cantilever conditions	Chalk and Talk		Design of one-way slab with cantilever conditions	Chalk and Talk	
	30		Design of one-way Continuous slabs	Chalk and Talk		Design of one-way Continuous slabs	Chalk and Talk	
	31		Design of two-way slabs for different boundary conditions	Chalk and Talk		Design of two-way slabs for different boundary conditions	Chalk and Talk	
	32		Design of two-way slabs for different boundary conditions	Chalk and Talk		Design of two-way slabs for different boundary conditions	Chalk and Talk	
	33		Design of Dog legged stair case	Chalk and Talk		Design of Dog legged stair case	Chalk and Talk	
	34		Design examples	Chalk and Talk		Design examples	Chalk and Talk	
	35		Design of Open well stair case	Chalk and Talk		Design of Open well stair case	Chalk and Talk	
	36		Design examples	Chalk and Talk		Design examples	Chalk and Talk	

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MODULE-5	37		**Module-5** Introduction to Columns and Footings, Analysis and design of short axially loaded RC column	Chalk and Talk		**Module-5** Introduction to Columns and Footings, Analysis and design of short axially loaded RC column	Chalk and Talk	
	38		Design of columns with uni-axial Moment	Chalk and Talk		Design of columns with uni-axial Moment	Chalk and Talk	
	39		Design of columns with biaxial Moment	Chalk and Talk		Design of columns with biaxial Moment	Chalk and Talk	
	40		Design concepts of the footings, Design of Rectangular footings with axial load	Chalk and Talk		Design concepts of the footings, Design of Rectangular footings with axial load	Chalk and Talk	
	41		Design of Rectangular footings with axial load& moment	Chalk and Talk		Design of Rectangular footings with axial load& moment	Chalk and Talk	
	42		Design of Square footings with axial load	Chalk and Talk		Design of Square footings with axial load	Chalk and Talk	
	43		Design of Square footings with axial load& moment	Chalk and Talk		Design of Square footings with axial load& moment	Chalk and Talk	
	44		Design examples	Chalk and Talk		Design examples	Chalk and Talk	

	Activity	Planned	Actual	Remarks
1	Theory Classes	44		Problematic subject -taken extra classes and solved more problems
2	Assignments/Quizzes/ Self study	3		-
3	Tutorials/ Extra classes	7		-
4	Internal Assessments	3		-
5	ICT based Teaching (% of usage in Curriculum)	-	-	-
Planning			**Execution**	
Faculty Signature:			**Faculty Signature:**	
HOD Signature:			**HOD Signature:**	