

**Lesson Plan & Work-done Diary for AY: 2025-26, Even Semester**

	Course with Code: Design of RC Structures / BCV601				Faculty: Dr. Pujitha Ganapathi C.		Semester & Section: 6 <sup>th</sup> and A sec	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
<b>MODULE-1</b>								
1	28/01/26	<b>Introduction to working stress and limit State Design:</b> Introduction to working stress method,	ICT					
2	29/01/26	Introduction to working stress method,	ICT					
3	02/02/26	Difference between Working stress and Limit State Method of design.	Chalk & Talk					
4	04/02/26	Difference between Working stress and Limit State Method of design.	Chalk & Talk					
5	05/02/26	Partial Safety factors, Characteristic load and strength.	Chalk & Talk					
6	09/02/26	Stress block parameters, concept of balanced section, under reinforced and over reinforced section.	Chalk & Talk					
7	11/02/26	Limiting deflection, short term deflection, long term deflection,	Chalk & Talk					
8	12/02/26	Calculation of deflection of singly reinforced beam only.	Chalk & Talk					

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<b>MODULE-2</b>								
9	16/02/26	<b>Limit State Analysis of Beams:</b> Analysis of singly reinforced,	ICT					
10	18/02/26	Problems on analysis of singly reinforced,	Chalk & Talk					
11	19/02/26	Problems on analysis of singly reinforced,	Chalk & Talk					
12	23/02/26	Problems on analysis of singly reinforced,	Chalk & Talk					
13	25/02/26	Problems on analysis of doubly reinforced and flanged beams for flexure.	Chalk & Talk					
14	26/02/26	Problems on analysis of doubly reinforced and flanged beams for flexure.	Chalk & Talk					
15	02/03/26	Problems on analysis of doubly reinforced and flanged beams for shear.	Chalk & Talk					
16	09/03/26	Problems on analysis of doubly reinforced and flanged beams for shear.	Chalk & Talk					

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<b>MODULE 3</b>								
17	11/03/26	<b>Limit State Design of Beams:</b> Design of singly reinforced beams with check for shear, check for development length and other checks.	ICT					
18	12/03/26	Design of singly reinforced beams with check for shear, check for development length and other checks.	Chalk & Talk					
19	16/03/26	Design of singly reinforced beams with check for shear, check for development length and other checks.	Chalk & Talk					
20	18/03/26	Design of singly reinforced beams with check for shear, check for development length and other checks.	Chalk & Talk					
21	23/03/26	Design of doubly reinforced beams and flanged sections without checks.	Chalk & Talk					
22	25/03/26	Design of doubly reinforced beams and flanged sections without checks.	Chalk & Talk					
23	26/03/26	Design of doubly reinforced beams and flanged sections without checks.	Chalk & Talk					
24	30/03/26	Design of doubly reinforced beams and flanged sections without checks.	Chalk & Talk					

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<b>MODULE 4</b>								
25	08/04/26	<b>Limit State Design of Slabs and Stairs:</b> Introduction to one way and two-way slabs,	ICT					
26	09/04/26	Introduction to one way and two-way slabs,	ICT					
27	13/04/26	Design of Cantilever, simply supported and one-way continuous slab.	Chalk & Talk					
28	15/04/26	Design of Cantilever, simply supported and one-way continuous slab.	Chalk & Talk					
29	16/04/26	Design of two-way slabs for different boundary conditions.	Chalk & Talk					
30	22/04/26	Design of two-way slabs for different boundary conditions.	Chalk & Talk					
31	23/04/26	Design of dog legged and open well staircases	Chalk & Talk					
32	27/04/26	Design of dog legged and open well staircases	Chalk & Talk					

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<b>MODULE 5</b>								
33	29/04/26	<b>Limit State Design of Columns and Footings:</b> Analysis and design of short axially loaded RC column.	ICT					
34	30/04/26	Analysis and design of short axially loaded RC column.	Chalk & Talk					
35	04/05/26	Design of columns with uniaxial and biaxial moments,	Chalk & Talk					
36	06/05/26	Design of columns with uniaxial and biaxial moments,	Chalk & Talk					
37	07/05/26	Design concepts of the footings.	Chalk & Talk					
38	08/05/26	Design of Rectangular and square column footings with axial load.	Chalk & Talk					
39	14/05/26	Design of Rectangular and square column footings with axial load.	Chalk & Talk					
40	15/05/26	Revision class	Chalk & Talk					

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1	30/01/26	Calculation of deflection of singly reinforced beam using Excel	ICT					
2	06/02/26	Design of a simply supported RCC singly reinforced beam using Excel and draw the reinforcement details	ICT					
3	13/02/26	Design of a simply supported RCC doubly reinforced beam using Excel and draw the reinforcement details	ICT					
4	20/02/26	Design of singly reinforced beams with check for shear, check for development length and other checks using Excel.	ICT					
5	27/02/26	Design of a cantilever beam using Excel and draw the reinforcement	ICT					
6	13/03/26	Design a simply supported RCC one way slab with intermediate support and draw the reinforcement details	ICT					
7	20/03/26	Design a two-way slab for the given data and prepare Bar bending schedule	ICT					
8	27/03/26	Design a short axially loaded RC column using Excel	ICT					
9	17/04/26	Design the reinforcement for RCC square column with isolated square footing	ICT					
10	24/04/26	Design the reinforcement for RCC circular column with isolated square footing	ICT					
11	24/04/26	Creation of models related to RC Structural elements. (Demonstration)	ICT					

	Activity	Planned	Actual	Remarks		
<b>1</b>	Theory Classes	50				
<b>2</b>	Assignments (Individual/Group)	02				
<b>3</b>	Quizzes (SRS/MS Forms)	05				
<b>4</b>	Tutorials/ Extra classes	-				
<b>5</b>	Internal Assessments	03				
<b>6</b>	ICT based Teaching. (% of usage in Curriculum)	20%				
<b>Planning</b>			<b>Execution</b>			
<b>Faculty Signature:</b>		<b>Faculty Signature:</b>				
<b>HoD Signature:</b>		<b>HoD Signature:</b>				