

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: 6th 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 |
| | MODULE-1 | | | | | | | |
| 1 | 28/01/26 | Introduction to working stress and limit State Design: 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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| | MODULE-2 | | | | | | | |
| 9 | 16/02/26 | Limit State Analysis of Beams: 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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| MODULE 3 | | | | | | | | |
| 17 | 11/03/26 | Limit State Design of Beams: 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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| MODULE 4 | | | | | | | | |
| 25 | 08/04/26 | Limit State Design of Slabs and Stairs: 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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| MODULE 5 | | | | | | | | |
| 33 | 29/04/26 | Limit State Deign of Columns and Footings: 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 |
|---------------------------|---|---------|---------------------------|---------|
| 1 | Theory Classes | 50 | | |
| 2 | Assignments (Individual/Group) | 02 | | |
| 3 | Quizzes (SRS/MS Forms) | 05 | | |
| 4 | Tutorials/ Extra classes | - | | |
| 5 | Internal Assessments | 03 | | |
| 6 | ICT based Teaching. (% of usage in Curriculum) | 20% | | |
| Planning | | | Execution | |
| Faculty Signature: | | | Faculty Signature: | |
| HoD Signature: | | | HoD Signature: | |