ATME College of Engineering

Department of Civil Engineering

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

	Course with Code: Design of Steel Structural Elements / BCV701				Faculty: Dr. Pujitha Ganapathi C.		Semester & Section: VII	
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	06/08/2025	**Introduction:** Advantages and Disadvantages of Steel Structures,	ICT					
2	07/08/2025	Limit state method Limit State of Strength, Structural Stability, Serviceability Limit states, Failure Criteria of steel	ICT					
3	08/08/2025	Design Consideration, Loading and load combinations, IS code provisions, Specification and Section classification.	Chalk & Talk					
4	13/08/2025	**Plastic Behaviour of Structural Steel:** Introduction, Plastic theory,	Chalk & Talk					
5	14/08/2025	Plastic Hinge Concept, Plastic collapse load, load factor	Chalk & Talk					
6	20/08/2025	Shape factor, Theorem of plastic collapse, Methods of Plastic analysis	Chalk & Talk					

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7	21/08/2025	Related problems on plastic hinges	Chalk & Talk					
8	22/08/2025	Related problems on plastic hinges	Chalk & Talk					
	MODULE-2							
9	28/08/2025	**Bolted Connections:** Introduction	ICT					
10	29/08/2025	Types of Bolts, Behaviour of bolted joints	ICT					
11	03/09/2025	Design of High Strength friction Grip (HSFG) bolts	Chalk & Talk					
12	04/09/2025	Design of High Strength friction Grip (HSFG) bolts	Chalk & Talk					
13	10/09/2025	Design of Simple bolted Connections (Lap and Butt joints)	Chalk & Talk					
14	18/09/2025	Design of Simple bolted Connections (Lap and Butt joints)	Chalk & Talk					
15	19/09/2025	Design of bracket connections both types	Chalk & Talk					

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16	24/09/2025	Design of bracket connections both types	Chalk & Talk					
	MODULE 3							
17	25/09/2025	**Welded Connections:** Introduction	ICT					
18	26/09/2025	Types and properties of welds, Effective areas of welds, Weld Defects	ICT					
19	08/10/2025	Simple welded joints for truss member	ICT					
20	08/10/2025	Simple welded joints for bracket connections both types	Chalk & Talk					
21	10/10/2025	Advantages and Disadvantages of Bolted and Welded Connections	Chalk & Talk					
22	23/10/2025	Design of simple welded Connections & related problems	Chalk & Talk					
23	24/10/2025	Design of simple welded Connections & related problems	Chalk & Talk					
24	29/10/2025	Design of simple welded Connections & related problems	Chalk & Talk					

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	MODULE 4							
25	29/10/2025	**Design of Tension Members:** Introduction, Types of Tension members	ICT					
26	30/10/2025	Slenderness ratio, Modes of Failure, Factors affecting the strength of tension members,	ICT					
27	31/10/2025	Design of Tension members with Lug angles and related problems	Chalk & Talk					
28	06/11/2025	Design of Tension members with Lug angles and related problems	Chalk & Talk					
29	07/11/2025	Introduction to Column base, Design of Simple Slab Base	Chalk & Talk					
30	12/11/2025	Design of Simple Slab Base and related problems	Chalk & Talk					
31	12/11/2025	Design of Gusseted Base	Chalk & Talk					
32	13/11/2025	Design of Gusseted Base and related problems	Chalk & Talk					

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	MODULE 5							
33	14/11/2025	Design of Compression Members: Introduction, Failure modes, Behaviour of compression members	ICT					
34	19/11/2025	Sections used for compression members, Effective length of compression members,	ICT					
35	19/11/2025	Design of compression members and built up Compression members,	Chalk & Talk					
36	20/11/2025	Design of compression members and related problems	Chalk & Talk					
37	21/11/2025	Design of compression members and related problems	Chalk & Talk					
38	26/11/2025	Design of Laced and Battened Systems.	Chalk & Talk					
39	27/11/2025	Design of Laced and Battened Systems and related problems	Chalk & Talk					
40	28/11/2025	Design of Laced and Battened Systems and related problems	Chalk & Talk					

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	Activity	Planned	Actual	Remarks
1	Theory Classes	40		
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:**