

## Lesson Plan

Subject- Design of Steel Structure (Code) – CEPC204C

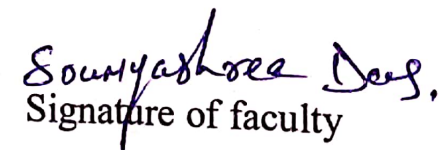
Name of faculty- Soumyashree das, Semester- 4th Class, allotted- 45hr Branch -Civil Engg.

Discipline	Semester	From date:22/12/2025 To date:10/04/2026	Teaching Aid
Subject:	No. of days/ per week: 3p	Theory/ Practical –Topics/Lesson	
Week	Date/Period		
1	22/12/2025 To 12/01//2026	<p><b>Design of connections in steel structures</b></p> <p><b>1.1</b> Types of connection, bolted connection, Strength of bolted joints,</p> <p><b>1.2</b> Design of bolted joints for axially loaded members.</p> <p><b>1.3</b> Types of weld, welded connections, Permissible stresses in weld, Strength of weld.</p> <p><b>1.4</b> Advantages and disadvantages of weld, Design of fillet weld and butt weld for axial load.</p>	White board&marker
2	16/01/2026 To 09/02/2026	<p><b>Design of Steel Tension (Limit State Method)</b></p> <p><b>2.1</b> Types of sections used for Tension members.</p> <p><b>2.2</b> Strength of tension member by-yielding of section, rupture of net cross-section and block shear.</p> <p><b>2.3</b> Design of axially loaded single angle and double angle tension members with bolted and welded connections.</p>	White board&marker
3	13/02/2026 To 16/03/2026	<p><b>Design of Steel Compression Members (Limit State Method)</b></p> <p><b>3.1</b> Types of sections used as compression member, Calculation of effective length, Radius of gyration and slenderness ratio, Permissible values of slenderness ratio as per IS 800-2007, Design compressive stress, Design of column bases for axially loaded columns only.</p> <p><b>3.2</b> Introduction to built up sections, lacing and battening (Meaning and purpose), Diagrams of single and double lacing and battening system. (No numerical problems).</p> <p><b>3.3</b> Design of axially loaded single and double angle struts connected by bolted and welded connections with gusset plate.</p>	White board&marker

4	20/03/2026 To 10/04/2026	<b>Design of Steel beams (Limit State Method)</b> 4.1 Standard beam sections, Bending stress calculations. 4.2 Design of simple I and channel section. 4.3 Check for shear as per IS 800 2007 4.4 Simple and built up sections, 4.5 Introduction to plate girder: Components and functions (no numerical	White board&marker
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Signature of HOD

  
Signature of faculty

