

Lesson Plan

Subject:-Building Construction (TH.1)

Code-CEPC201

Name of faculty:- Rajashree Sahoo

Semester:-3rd

Class allotted: 45Hrs

Branch: - Civil Egg.

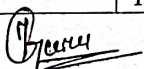
Session: 2025(W)

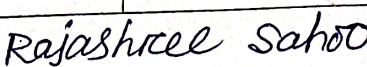
Discipline	Semester:-3 rd	From date:- 14/07/2025 TO 15/11/2025	Teaching Aid
Subject:	No. of days/ per week 3p/w :	Theory/ Practical –Topics/Lesson	
Week	Date/Period		

1	15/07/2025 TO 19/07/2025	1. Overview of Building Components:- Classification of Buildings as per National Building Code Group A to I, as per Types of Constructions- Load Bearing Structure, Framed Structure, Composite Structure. Building Components – Functions of Building Components,• substructure – Foundation, Plinth.	White board & marker
2	21/07/2025 TO 26/07/2025	Superstructure – Walls, Partition wall, Cavity wall, Sill, Lintel,• Doors and Windows, Floor, Mezzanine floor, Roof, Columns, Beams, Parapet. 2. Construction of Substructure:- Job Layout: Site Clearance, Layout for Load Bearing Structure• and Framed Structure by Center Line and Face Line Method,	White board & marker
3	28/07/2025 TO 02/08/2025	3.Construction of Superstructure :- Stone Masonry: Terms used in stone masonry- facing,• backing, hearting, through stone, corner stone, cornice. Types of stone masonry: Rubble masonry, Ashlar Masonry and their types. Joints in stone masonry and their purpose. Selection of Stone Masonry, Precautions to be taken in Stone Masonry Construction.	White board & marker
4	04/08/2025 TO 09/08/2025	Brick masonry: Terms used in brick masonry- header,• stretcher, closer, quoins, course, face, back, hearting, bat bond, joints, lap, frog line, level and plumb. Bonds in brick masonry- header bond, stretcher bond, English bond and Flemish bond. Requirements of good brick masonry. Junctions in brick masonry and their purpose and procedure. Precautions to be observed in Brick Masonry Construction. Comparison between stone and Brick Masonry.	White board & marker
5	11/08/2025 TO 16/08/2025	Tools and plants required for construction of stone and brick masonry. Hollow concrete block masonry and composite masonry. Scaffolding and Shoring:- Purpose, Types of Scaffolding,• Process of Erection and Dismantling. Purpose and Types of Shoring, Underpinning. Formwork: Definition of Formwork, Requirements of Formwork, Materials used in Formwork, Types of Formwork, Removal of formwork.	White board & marker & smart board
6	18/08/2025 TO 23/08/2025	4.Building Communication and Ventilation:- • Horizontal Communication: Doors –Components of Doors, Full Paneled Doors, Part ly Paneled and Glazed Doors, Flush Doors, Collapsible Doors, Rolling Shutters, Revolving Doors, Glazed Doors. Sizes of Door recommended by BIS.	White board & marker

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	25/08/2025 TO 30/08/2025	Windows: Component of windows, Types of Windows – Full Paneled, Partly Paneled and Glazed, wooden, Steel, Aluminum windows, Sliding Windows, Louvered Window, Bay win- dow, Corner window, clear storey window, Gable and Dormer window, Skylight. Sizes of Windows recommended by BIS. Ventilators. • Fixtures and fastenings for doors and windows • Material used and functions of Window Sill and Lintels, Shed / Chajja.	White board & marker
8	01/09/2025 TO 06/09/2025	Vertical Communication: Means of Vertical Communication- Stair Case,Ramps,Lift, Elevators and Escalators. Terms used in staircase steps, tread, riser, nosing, soffit, waist slab, baluster, balustrade, scotia, hand rails, 8 newel post, landing, headroom, winder. Types of staircase (On the basis of shape): Straight, dog-legged, open well, Spiral, quarter turn, bifurcated, Three quarter turn and Half turn, (On the basis of Material): Stone, Brick, R.C.C., wooden and Metal.	White board & marker
9	08/09/2025 TO 13/09/2025	5.Building Finishes:- Floors and Roofs: Types of Floor Finishes and its• suitability- Kota, Marble, Granite, Ceramic Tiles, Vitrified, Chequered Tiles, Paver Blocks, Concrete Floors, wooden Flooring, Skirting and Dado.	White board & marker
10	15/09/2025 TO 20/09/2025	Process of Laying and Construction, Finishing and Polishing of Floors, Roofing Ma terials- RCC, Mangalore Tiles, AC Sheets, G.I. sheets, Corrugated G.I. Sheets, Plastic and Fibre Sheets. Types of Roof: Flat roof, Pitched Roof- King Post truss, Queen Post Truss, terms used in roofs.	White board & marker
11	22/09/2025 TO 27/09/2025	Wall Finishes: Plastering – Necessity of Plastering,• Procedure of Plastering, Single Coat Plaster, Double Coat Plaster,	White board & marker
12	08/10/2025 TO 11/10/2025	Rough finish, Neeru Finishing and Plaster of Paris (POP). Special Plasters- Stucco plaster, sponge finish, pebble finish. Plaster Board and Wall Claddings.	White board & marker & smart board
13	13/10/2025 TO 18/10/2025	Precautions to be taken in plastering, defects in plastering. Painting – Necessity, Types of painting and procedure of Painting. Painting –Necessity, Surface Preparation for painting, Methods of Application.	White board & marker
14	20/10/2025 TO 25/10/2025	Types of staircase (On the basis of shape): Straight, dog-legged, open well, Spiral, quarter turn, bifurcated, Three quarter turn and Half turn, (On the basis of Material): Stone, Brick, R.C.C., wooden and Metal.	White board & marker
15	27/10/2025 TO 01/11/2025	Definition of Formwork, Requirements of Formwork, Materials used in Formwork, Types of Formwork, Removal of formwork.	White board & marker& smart board
16	03/11/2025 TO 08/11/2025	Revision.....	White board & marker
17	10/11/2025 TO 15/11/2025	Revision.....	White board & marker


Signature of HOD


Signature of faculty