

Subject:-Building Construction (TH.1)
Semester:-3rd Class allotted: 45Hrs

Lesson Plan

Code-CEPC201

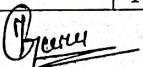
Name of faculty:- Rajashree Sahoo
Branch: - Civil Egg. Session: 2025(W)

| 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 | | |

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| 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 | 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, Partly Paneled and Glazed Doors, Flush Doors, Collapsible Doors, Rolling Shutters, Revolving Doors, Glazed Doors. Sizes of Door recommended by BIS. | White board & marker |

Lesson Plan

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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 window, 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 Materials- 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

Rajashree Sahoo
Signature of faculty