ACADEMIC SESSION: WINTER-2025

Discipline : Civil	Semester:3rd	Name of the Teaching Faculty: Padma Lochan Behera, Sr. Lect. (Civil)
Cubicationildina	No of Days /	Semester Duration: 14/07/2025 to 15/11/2025
Subject:Building	No. of Days /	Semester Duration. 14/07/2023 to 13/11/2023
Construction	Week class	No of Works 19
***	allotted:3	No. of Weeks :18
Week	Class day	Theory/Practical Topics:
1 st	1 st	Classification of Buildings as per National Building Code Group A to I, a per Types of Constructions- Load Bearing Structure, Framed Structure,
		Composite Structure.
	2 nd	Building Components – Functions of Building Components,
		substructure – Foundation, Plinth.
	3 rd	Superstructure – Walls, Partition wall, Cavity wall, Sill, Lintel, Doors and Windows .
2 nd	1 st	Floor, Mezzanine floor, Roof, Columns, Beams, Parapet.
	2 nd	Job Layout: Site Clearance, Layout for Load Bearing Structure by Cente Line and Face Line Method, Precautions.
	ord .	
	3 rd	Layout forFramed Structureby Center Line and Face Line Method, Precautions.
3 rd	1 st	Earthwork: Excavation for Foundation, Timbering and Strutting
	2 nd	Earthwork for embankment, Material for plinth Filling, Tools and plant used for earthwork.
	3 rd	Foundation: Functions of foundation,
	3	사람들은 이렇게 하다 마이트를 하는데 하다는데 이렇게 하면 있었다. 그는데 아이들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람
	- ct	Types of foundation – Shallow Foundation, Stepped Footing
4th	1 st	Wall Footing, Column Footing, Isolated and Combined Column Footing
	2 nd	Raft Foundation, Grillage Foundation.
	3 rd	Deep Foundation – Pile Foundation, Well foundation
5 th	1 st	Caissons, Pumping Methods of Dewatering, Deep wells, Well points, Cofferdams (Introduction only).
	2 nd	Stone Masonry: Terms used in stone masonry- facing, backing,
		hearting, through stone, corner stone, cornice.
	3 rd	Types of stone masonry: Rubble masonry, Ashlar Masonry and their
	3	
	ct	types.
6 th	1 st	Joints in stone masonry and their purpose.
	2 nd	Selection of Stone Masonry, Precautions to be taken in Stone Masonry, Construction.
	3 rd	Brick masonry: Terms used in brick masonry- header, stretcher, closer
		quoins, course, face, back, hearting, bat bond, joints, lap, frog line, level and plumb.
7 th	1 st	Bonds in brick masonry- header bond, stretcher bond.
	2 nd	English bond and Flemish bond.
	2rd	
	3	Requirements of good brick masonry. Junctions in brick masonry and their purpose and procedure.

T	1 st	The struction, Comparis
8 th	1"	Precautions to be observed in Brick Masonry Construction. Comparis
	and	between stone and Brick Masonry.
	2	Tools and plants required for construction of stone and brick
-	a rd	masonry. Hollow concrete block masonry and composite masonry.
	3 rd	Scaffolding and Shoring: Purpose, Types of Scaffolding, Process of
	a st	Erection and Dismantling.
9 th	2nd	Purpose and Types of Shoring, Underpinning.
	2	Formwork: Definition of Formwork, Requirements of Formwork,
	a rd	Materials used in Formwork.
	3 rd .	Types of Formwork, Removal offormwork.
10 th	1 st	Horizontal Communication: Doors -Components of Doors, Full
10		Paneled Doors, Part ly Paneled and Glazed Doors.
	2 nd	Flush Doors, Collapsible Doors, Rolling Shutters, Revolving Doors,
		Glazed Doors. Sizes of Door recommended by BIS.
	3 rd	Windows: Component of windows, Types of Windows - Full Paneled,
		Partly Paneled and Glazed, wooden, Steel, Aluminum windows.
	1 st	Sliding Windows, Louvered Window, Bay win- dow, Corner window,
11 th		clear storey window.
	2 nd	Gable and Dormer window, Skylight. Sizes of Windows recommended
		by BIS. Ventilators.
	3 rd	Fixtures and fastenings for doors and windows.
		Material used and functions of Window Sill and Lintels, Shed /Chajja.
	1 st	Vertical Communication: Means of Vertical Communication- Stair
12 th		Case, Ramps, Lift, Elevators and Escalators.
	2 nd	Terms used in staircase steps, tread, riser, nosing, soffit, waist slab,
		baluster, balustrade, scotia, hand rails, newel post, landing, headroom,
		winder.
	3 rd	Types of staircase (On the basis of shape): Straight, dog-legged, open
		well, Spiral, quarter turn, bifurcated.
	1 st	Three quarter turn and Half turn, (On the basis of Material): Stone,
13 th		Brick, R.C.C., wooden and Metal.
	2 nd	
	_	Floors and Roofs: Types of Floor Finishes and its suitability- Kota,
	o rd	Marble, Granite, Ceramic Tiles, Vitrified.
	3 ^{ra}	Chequered Tiles, Paver Blocks, Concrete Floors, wooden Flooring,
		Skirting and Dado.
th	1 st	Process of Laying and Construction, Finishing and Polishing of Floor.
14 th	2 nd	Roofing Materials- RCC, Mangalore Tiles, AC Sheets, G.I. sheets,
		Corrugated G.I. Sheets, Plastic and Fibre Sheets.
	3 rd	Types of Roof: Flat roof, Pitched Roof- King Post truss, Queen Post
		Truss, terms used in roofs.
	1 st	Wall Finishes: Plastering – Necessity of Plastering, Procedure of
15 th		Plastering .
15 th	2 nd	Plastering . Single Coat Plaster, Double Coat Plaster, Rough finish, Neeru Finishing

		Special Plasters- Stucco plaster, sponge finish, pebble finish. Special Plasters- Stucco plaster, sponge finish, pebble finish. Precautions to be taken in plastering,
	3 rd	Special Plasters- Stucco plaster, sponge finish, pebble in plastering, Plaster Board and Wall Claddings. Precautions to be taken in plastering.
	1 st	Plaster Board and Wall Claudings.
16 th		defects in plastering.
	2 nd	defects in plastering. Painting – Necessity, Types of painting and procedure of Painting. Painting – Necessity, Types of painting and procedure of Painting. Surface Preparation for painting, Methods of
	3 rd	Painting – Necessity, Types of painting and procedure Painting – Necessity, Surface Preparation for painting, Methods of
		Application.
	1 st	Revision
17 th	2 nd	Revision
	3 rd	Revision
	1 st	Question Discussion
18 th	2 nd	Question Discussion
	3 rd	Question Discussion
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Prepared By:

Padwalocher Bebera Polysta

Approved By: