

G.P. DHANGAR (Fatehabad)

Name of Faculty : Mr. Sandeep

Discipline : CIVIL ENGG.

Semester : 3rd

Subject : Building Construction

Week	Lecture No.	Topic Covered
1	1	Definition of a building, classification of buildings & parts of building
	2	Concept of foundation and its purpose
	3	Types of foundation-shallow and deep
	4	Shallow foundation - constructional details of: Spread foundations for walls
2	5	thumb rules for depth and width
	6	Introduction to deep foundation and their types
	7	Introduction to Earthwork
	8	Layout/setting out for surface excavation, cutting and filling
3	9	Excavation of foundation, trenches, shoring, timbering and de- watering
	10	Purpose of walls & classification
	11	Partition walls: Constructional details, suitability and uses
	12	Scaffolding, construction details and suitability of mason's brick layers
4	13	tubular scaffolding, shoring & underpinning
	14	Brick Masonry: Definition of terms
	15	Types of bonds
	16	Construction of brick walls –methods of laying bricks in walls
5	17	precautions observed in the construction of walls, methods of bonding
	18	Expansion and contraction joints
	19	Mortars: types, selection of mortar and its preparation
	20	Stone Masonry: Introduction & Types
6	21	Meaning and use of arches and lintels
	22	Types of Arches
	23	Stone arches and their construction
	24	Brick arches and their construction
7	25	Lintels: Purpose & uses
	26	Glossary of terms related to doors with neat sketches
	27	Classification based of doors
	28	Window –Introduction & Types
8	29	Door and window frames – materials and sections, fixtures and fasteners
	30	Dampness and its ill effects
	31	Sources of dampness
	32	Damp proofing materials and their specifications
9	33	Damp proofing of basement, Ground floors, plinth and walls, water storage tank, kitchen, W.C., roof.
	34	Glossary of terms-floor finish, topping, under layer, base course,etc.
	35	Types of floor finishes
	36	Special emphasis on level/slope/reverse slope in bathrooms, toilets, kitchen, balcony & staircase
10	37	Types of roofs, concept of flat, pitched and arched roofs
	38	Glossary of terms for pitched roofs
	39	False ceilings using gypsum, plaster boards, cellotex, fibre boards
	40	Glossary of terms related to stairs
	41	Types of staircase
	42	Planning and layout of staircase: Relations between rise and tread
	43	Various types of layout of stairs
11	44	Plastering - classification according to use and finishes
	45	Pointing - different types of pointing and their methods
	46	Painting - preparation of surface, primer coat and application of paints
	47	Application of white washing, colour washing and distempering, polishing, application of cement and plastic paints
12	48	Importance of preparation of surfaces such as hacking, grooving etc
	49	Anti Termite Treatment to Foundation, Masonary, RCC, Floors, Junction of walls & floors
13	50	Treatment to wooden joinery
	51	Treatment to existing building
	52	Revision