

GOVERNMENT POLYTECHNIC, LAKHISARAI

Branch :- Civil Engineering
 Semester :- 3rd
 Session :- 2019-2022
 Subject :- Building Construction (1615303)

Name of faculty :- Mukesh Kumar (Lecturer)

Date	Lecture no.	Unit no.	Topic	Remarks
04.08.20	1	Unit -1 BUILDING COMPONENTS AND MATERIALS	1.1 BUILDING COMPONENTS AND TYPES OF STRUCTURE	
07.08.20	2		1.2 MASONRY MATERIALS A) BUILDING STONES	
10.08.20	3		MASONRY MATERIALS B) BRICKS	
14.08.20	4		MASONRY MATERIALS C) MORTARS	
17.08.20	5		1.3 TIMBER BASED MATERIAL	
18.08.20	6		1.4 MISCELLANEOUS MATERIALS	
21.08.20	7	Unit -2 CONSTRUCTION OF SUBSTRUCTURE	2.1 JOB LAYOUT	
24.08.20	8		2.2 EARTHWORK	
25.08.20	9		TIMBERING AND STRUTTING	
28.08.20	10		PUMPING METHOD OF DEWATERING, COFFERDAMS	
31.08.20	11		2.3 FOUNDATION TYPES OF FOUNDATION	
01.09.20	12		BEARING CAPACITY OF FOUNDATION SOIL, UNDER REAMED PILE FOUNDATION	
04.09.20	13		3.1 STONE MASONRY TERMS USED IN STONE MASONRY – FACING, BACKING, HEARTING, THROUGH STONE, CORNER STONE	
07.09.20	14		UNCOURSED RUBBLE MASONRY, COURSED RUBBLE MASONRY	
08.09.20	15		TOOLS AND PLANTS USED FOR STONE MASONRY, COL-GROUT MASONRY.	

11.09.20	16	Unit -3 CONSTRUCTION OF SUPERSTRUCTUR E	POINT TO BE OBSERVED IN CONSTRUCTION OF STONE MASONRY, MORTARS FOR STONE MASONRY	
14.09.20	17		3.2 BRICK MASONRY COMMON TERMS USED IN BRICK MASONRY	
15.09.20	18		REQUIREMENTS OF GOOD BRICKWORK, BONDS IN BRICK MASONRY,	
18.09.20	19		ENGLISH, FLEMISH, STRETCHER AND HEADER BONDS ONLY.	
21.09.20	20		BRICK LAYING ,LINE LEVEL AND PLUMB OF BRICKWORK, STRIKING AND RAKING OF JOINTS, LEAD AND LIFT	
22.09.20	21		PRECAUTIONS IN BRICK MASONRY, TOOLS AND PLANTS USED IN BRICK MASONRY .	
25.09.20	22		COMPARISON BETWEEN BRICK AND STONE MASONRY. HOLLOW CONCRETE BLOCK MASONRY, COMPOSITE MASONRY	
28.09.20	23		CAVITY WALL- PURPOSE AND CONSTRUCTION	
29.09.20	24		DOORS	
05.10.20	25		WINDOWS	
06.10.20	26		SILL, LINTEL AND WEATHER SHED - FUNCTIONS, TYPES AND CONSTRUCTION	
09.10.20	27		STAIR CASE	
12.10.20	28		STAIR CASE,	
13.10.20	29		ELEVATOR OR OF GOOD STAIRCASE, FABRICATED STAIR.	
16.10.20	30		TYPES OF STAIRCASE	
19.10.20	31		SCAFFOLDING AND SHORING	
20.10.20	32		SCAFFOLDING AND SHORING	,
30.10.20	33	FLOOR FINISHES- SHAHABAD , KOTA, MARBLE, GRANITE ,KADAPPA, CERAMIC TILES ,VITRIFIED , MOSAIC TILES ,CHEQUERRED TILES, GLAZED TILES ,	, .	
02.11.20	34	PAVEMENT BLOCKS CONCRETE FLOORS, TREMIX FLOOR, SKIRTING AND DADO		

03.11.20	35	Unit -4 4. Building Finishes	PROCESS OF LAYING- PROCESS OF LAYING AND CONSTRUCTION FINISHING AND POLISHING OF FLOORS.	
06.11.20	36		ROOFING MATERIALS – AC SHEETS ,G.I. SHEETS	
09.11.20	37		PLASTIC SHEETS, FIBRE SHEETS, MANGALORE TILES ETC. STEEL TRUSSES. R.C.C. SLAB	
10.11.20	38		4.2 WALL FINISHES PLASTERING – NECESSITY OF PLASTERING, , SPECIAL PLASTERS STUCCO PLASTER , .	
24.11.20	39		SINGLE COAT PLASTER DOUBLE COAT PLASTER , NEERU FINISHING AND POP	
27.11.20	40		PLASTER BOARD AND WALL CLADDINGS. PRECAUTION TO BE TAKEN WHILE PLASTERING. DEFECTS IN PLASTER. .	
01.12.20	41		POINTING – NECESSITY AND PROCEDURE OF POINTING	
04.12.20	42		PAINTING – NECESSITY, SURFACE PREPARATION, METHOD OF APPLICATION, SELECTING SUITABLE PAINTING MATERIAL, WHITE WASH AND COLOUR WASH	
07.12.20	43	Unit -5 5. BUILDING MAINTENANCE	5.1 CRACKS CAUSES AND TYPES OF CRACKS, IDENTIFICATION AND REPAIR OF CRACKS. GUNITING AND GROUTING, USE OF EPOXY AND CRACK FILLS.	
08.12.20	44		5.2 SETTLEMENT SETTLEMENT --CAUSES AND REMEDIAL MEASURES . .	
11.12.20	45		PLINTH PROTECTION – NECESSITY AND MATERIALS USED	
14.12.20	46		5.3 DEMOLITION NECESSITY, METHOD OF DEMOLITION-HAND DEMOLITION,	
15.12.20	47		MACHINE DEMOLITION, CONTROLLED BLASTING DEMOLITION, PRECAUTIONS DURING DEMOLITION	

18.12.20	48		5.4 REBARING TECHNIQUES NECESSITY AND EQUIPMENT FOR REBARING TECHNIQUES	
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