FORMAT OF LESSON PLAN

Name of faculty Sachin Sharma
Discipline Civil Engineering
Semester 3rd
Subject BC

Week		Theory	1	PRACTICAL
week		Topic	1	
	Lecture Day	горь		TOPIC
1st	1st	Introduction		
	2nd	Definition of a building, classification of buildings based on occupancy		
			1	Demonstration of tools and plants used in building construction
	3rd	Different parts of a building		Demonstration of tools and plants used in building construction
	4th	Concept of foundation and its purpose Types of foundation-shallow and deep		
	5th	Shallow foundation - constructional details of: Spread foundations for walls,		
		thumb rules for depth and width of foundation and thickness of concrete block.		
2nd	1st	and the state of t		
	2nd	stepped foundation, masonry pillars and concrete columns		
			2	To prepare Layout of a building: 2BHK with front verandah
	3rd	Layout/setting out for surface excavation, cutting and filling	2	
	4th	Excavation of foundation, trenches, shoring, timbering and dewatering Purpose of walls Classification of walls		
3rd	5th	load bearing, non-load bearing, dwarf wall, retaining, breast walls and partition walls	1	
	1st 2nd	Classification of walls as per materials of construction: brick, stone, reinforced brick,		To construct brick bonds (English Bond) in One, One & half and Two brick thick:
	3rd	reinforced concrete, precast, hollow and solid concrete block and composite masonry walls	3	(a) Walls for L, T and Cross Junction
	4th	Partition walls: Constructional details, suitability and uses of brick and wooden partition walls		(4) 1121 11 11 11 11 11 11 11 11 11 11 11 1
	5th	Mortars: types, selection of mortar and its preparation		(b) Columns
4th	1st	Scaffolding, construction details and suitability of mason's brick layers and tubular scaffolding, shoring,		
	2nd	Brick Masonry: Definition of terms like header, stretcher, queen closer king closer, frog and quoin	4	a)Walls for L,T and Cross Junctions
	3rd	Bond – meaning and necessity; English, flemish bond and other types of bonds	-	(b) Columns
	4th	Construction of brick walls -methods of laying bricks in walls, precautions observed in the construction of walls	-	
5th	1st 2nd	methods of bonding new brick work with old Expansion and contraction joints		
	2nd 3rd	Importance towards special care during execution on: soaking of bricks, maintenance of bonds and plumb	5	Demonstration of "Timbering of Excavated Trenching" through a model and visit at
	4th	defination of natural bed, bedding planes, string course, corbel, cornice, block in course grouting, moulding Types of stone masonry: rubble masonry - random and coursed; Ashlar masonry	,	construction site
	5th			COTAG DECOTAGE
6th	1st	Importance towards special care during execution of stone masonry work on dressing of stone, size and placing of bond		
oui	2nd	SESSIONAL TEST-1	6	Demonstration of "Laving Damp Proof Courses" through a model and visit at
	3rd	2E22IOMAT 1E21-1		
	4th			construction site
7th	1st	Meaning and use of arches and lintels Glossary of terms used in arches and lintels		Demonstration of "Construction of Masonry Walls" through a model and visit at
	2nd	Types of Arches - Semi circular, segmental, elliptical and parabolic, flat, inverted and relieving	7	Demonstration of Construction of Masoning Walls already a model and waste at
	3rd	Stone arches and their construction Brick arches and their construction		construction site
	4th	Purpose of lintel Materials used for lintels Cast-in-situ and pre-cast lintels,Lintel along with sun-shade or chhajja		
8th	1st 2nd	Glossary of terms used in door and window Classification based on materials i.e. wood, metal and plastic and their suitability for different situations.		Demonstration of "Brick Layers Scaffolding" through a model and visit at construction
	2na 3rd	Different type of doors- panel door, flush door, flazed door, rolling shutter, steel door, sliding door, plastic door	8	
	4th	Window - Panel window, glazed windows (fixed and openable) ventilators, sky light window, Louvres shutters		site
9th	1st	Dampness and its ill effects on bricks, plaster, wooden fixtures, metal fixtures and reinforcement,	+	
9th	2nd	damage to aesthetic appearance, damage to heat insulating materials, damage to stored articles and health,		
	3rd	Sources of dampness - moisture penetrating the building from outside e.g. rainwater, surface	9	Demonstration of "Steel Scaffolding" through a model and visit at construction site
	4th	Damp proofing materials and their specifications: rich concrete and mortar, bitumen, bitumen mastic.		
10th	1st	Glossary of terms-floor finish, topping, under layer, base course, rubble filling and their purpose	1	
	2nd	filling and their purpose 8.2 Types of floor finishes - cast-in-situ. concrete flooring. Terrazzo tile flooring, stone		
	3rd	The methods of construction of concrete, terrazzo and timber floors and their BIS specifications	10	Demonstration of "Laying of Vitrified Tile Flooring" through visit at construction site
	4th	Glossary of terms for pitched roofs batten, eaves,facia board, gable, hip, lap, purlin, rafter, rag bolt, valley ridge		
	5th	Damp proofing of : basement, ground floors, plinth and walls, special damp proofing arrangements in bathrooms		
11th	1st			
1	2nd			
1	3rd	SESSIONAL TEST- 2	11	Demonstration of "Plastering and Pointing Exercise" through visit at construction site
1	4th			
1	5th			
 		Followilles with many plate bands all the bands (Following Partiel and ball and all the bands (Following Partiel and bands)	+	
12th	1st	False ceilings using gypsum, plaster boards, cellotex, fibre boards Special emphasis on maintenance of slope		
	2nd	Giossary of terms: Staircase, winders, landing, stringer, newel, baluster, riser, tread, width of staircase, hand-rail		Demonstration of "Constructing RCC work – Foundations, Columns, Beams and Slabs"
	3rd	Classification of staircase on the basis of material – RCC, timber, steel, Aluminium	12	
	4th	Planning and layout of staircase - straight flight, dog legged, open well, quarter turn, half turn		through visit at construction site
	5th	Plastering - classification according to use and finishes like plain plaster, grit finish, rough cast, pebble dashed,		
13th	1st	proportion of mortars used for different plasters, techniques of plastering and curing	+-	
13th		Pointing - different types of pointing and their methods		Demonstration of "Pre-construction and post construction termite treatment of building
1	2nd		13	
1	3rd	Painting - preparation of surface, primer coat and application of paints on wooden, steel and plastered wall surfaces		and woodwork" through visit at construction site
14th	4th 1st	Application of white washing, colour washing and distempering, polishing, application of cement and plastic paints	1	
±4tn	1st 2nd	Revision/TEST Revision/TEST		
1	2na 3rd	Revision/TEST	14	Demonstration of "False Ceiling" through visit at construction site
1	4th	Revision/TEST	1 -	
1	5th	Revision/TEST		
15th	1st		1	
2501	2nd			
1	2nd 3rd	SESSIONAL TEST-3	15	Demonstration of "Interlocking Tiles" through visit at construction site
	4th			
	4tn	<u>L</u>		L