

Lesson Plan

Name of the Faculty: Gaurav Kumar

Discipline: Civil Engineering

Semester: IIIrd

Subject: BCMD

Work Load (Lecture/Practical) per week (in hours): Lectures- , Practicals-

Week	Theory		Practical	
	Lecture day	Topic (including assignment/test)	Practical day	Topic
1 st	1 st	Masonry Construction	1 st	
	2 nd	Introduction, various terms used		
	3 rd	stone masonry-Dressing of stones		
	4 th	Classifications of stone masonry, safe permissible loads		
2 nd	5 th	Brick masonry-bonds in brick wor, laying brick work	2 nd	
	6 th	structural brick work-cavity and hollow walls		
	7 th	Defects in brick masonry, glass block masonry		
	8 th	Foundation Functions, types of shallow foundations, sub-surface investigations, geophysical methods		
3 rd	9 th	reinforced brick work, composite stone and brick masonry	3 rd	
	10 th	Cavity and Partition Walls Advantages,		
	11 th	position of cavity, types of non-bearing partitions		
	12 th	constructional details and precautions, construction of masonry cavity wall		
4 th	13 th	general feature of shallow foundation, foundations in water logged areas, design of masonry wall foundation	4 th	
	14 th	introduction to deep foundations i.e. pile and pier foundations		
	15 th	UNIT 1 TEST		
	16 th	Damp-Proofing and Water-Proofing		
5 th	17 th	Defects and causes of dampness	5 th	
	18 th	prevention of dampness		
	19 th	materials used, damp-proofing treatment in buildings		
	20 th	water proofing treatment of roofs		

		including pitched roofs		
6 th	21 st	Roofs and Floors	6 th	
	22 nd	Types of roofs, various terms used,		
	23 rd	queen post truss etc Floor structures		
	24 th	ground, basement and upper floors,		
7 th	25 th	Doors and Windows Locations, sizes	7 th	
	26 th	types of doors and windows		
	27 th	fixures and fastners for doors and windows		
	28 th	various types of floorings		
8 th	29 th	roof trusses-king post truss	8 th	
	30 th	UNIT 2 TEST		
	31 st	Classification of bricks		
	32 nd	constituents of good brick earth		
9 th	33 rd	harmful ingredients	9 th	
	34 th	manufacturing of bricks, uses of terra-cotta, Classification of lime		
	35 th	testing of bricks. Tiles: Terra-cotta		
	36 th	manufacturing of tiles and terra-cotta, types of terra-cotta		
10 th	37 th	Manufacturing of lime, artificial hydraulic lime, pozzolona, testing of lime	10 th	
	38 th	storage of lime, cements composition, types of cement		
	39 th	manufacturing of ordinary Portland cement		
	40 th	testing of cement, special types of cement, storage of cement, Mortars: Definition		
11 th	41 st	proportions of lime, proportions of cement mortars	11 th	
	42 nd	mortars for masonry, mortars for plastering		
	43 rd	UNIT 3 TEST		
	44 th	Stones Classification, Quarrying of stones, blasting and sorting out of stones		
12 th	45 th	requirements of good structural stone	12 th	
	46 th	prevention and seasoning of stone		
	47 th	Classification of timber, structure of timber		
	48 th	seasoning of timber, defects in timber,		
13 th	49 th	masonite and its manufacturing, important Indian timbers	13 th	
	50 th	Basic constituents of paints, types of paints		

	51st	painting of wood		
	52nd	characteristics and types of varnishes.		
14th	53rd	fire proofing of timber	14th	
	54th	constituents of varnishes		
	55th	plywood, fiberboard		
	56th	UNIT 4 TESTs		
15th	57th	UNIT 1 REVISION	15th	
	58th	UNIT 2 REVISION		
	59th	UNIT 3 REVISION		
	60th	UNIT 4 REVISION		