FORMAT OF LESSON PLAN

Name of faculty	Mr. Mahender		
Discipline	Civil Engineering		
Semester	2nd Semester		
Subject	CM		

Week	Theory			Practical
	Lecture	Торіс	Practical	Торіс
	Day		Day	
Lst		Introduction	1st	To identify the stones used in building works by visu
	1	Building Stones Classification of Rocks		
	-	Geological classification: Igneous, sedimentary and metamorphic rocks		
	2	Chemical classification; Calcareous, argillaceous and siliceous rocks		
		Physical classification: Unstratified , startified and foliated rocks	2nd	To determine the smuchine story ath of builds
nd	1	General characteristics of stones – Marble, Kota stone	zna	To determine the crushing strength of bricks
	1	Granite, Sand, Trap, Basalt stone, Lime stone and Slate		
		Requirements of good building stones Identification of common building stones		
	2	Quarrying of stones by blasting and its effect on environment		
Brd		Introduction to bricks	3rd	To determine the contraction of builds
ira	1	Raw materials for brick manufacturing and properties of good brick making earth Manufacturing of bricks Preparation of clay (manual/mechanically	sra	To determine the water absorption of bricks
	1			efflorescence of bricks
		Moulding: hand moulding and machine moulding brick table; drying of bricks, burning types of kilns (Bull's Trench Kiln and Hoffman's Kiln),		
	2			
* 6	1	process of burning, size and weight of standard brick; traditional brick, refractory brick,	4th	
th	1	sun dried bricks, only line diagram of kilns	4th	
		Classification and specifications of bricks as per BIS: 1077 Testing of common building bricks as per BIS: 3495 Compressive strength		cement
	2			
th	1	water absorption – hot and cold water test, efflorescence, Dimensional tolerance, soundness test	5th	To determine normal consistency of coment
un	1	Building tiles; Types of tiles-wall, ceiling, roofing and flooring tiles	Sui	To determine normal consistency of cement
		Ceramic, terrazo and PVC tiles, : their properties and uses		
	2	Vitrified tiles, Paver blocks.		
	2	Stacking of bricks and tiles at site		
* h	1	Introduction, raw materials, flow diagram of manufacturing of cement	6th	
th	1		611	cement
		Ordinary portland cement, rapid hardening cement, low heat cement high alumina cement blast furnace slag cement, white and coloured cement, portland pozzolana cement,		cement
	2	3 ,		
th	1	super sulphate cement, Tests of cement – fineness, soundness,	7th	To determine soundness of cement
un	1	initial and final setting time etc.as per B.I.S. Code. Properties of cement	700	To determine soundness of cement
		Introduction: Lime as one of the cementing materials		
	2	Classification and types of lime as per BIS Code		
th	1	Calcination and slaking of lime	8th	To determine compressive strength of compart
un	1	-	oui	To determine compressive strength of cement
		Identification and uses of different types of timber: Teak Deodar, Shisham, Sal, Mango, Kail, Chir, Fir, Hollock, Champ		
	2			
	2	Market forms of converted timber as per BIS Code		
	1	Seasoning of timber: Purpose, methods of seasoning as per BIS Code	9th	To some doort field to start of some out
th	1	Properties of timber and specifications of structural timber	9th	To conduct field test of cement.
		Defects in timber, decay in timber		
	2	Preservation of timber and methods of treatment as per BIS		
0+h	1	brief description of manufacture and uses: laminated board, block board,	10th	To identify various types of timbers such as
.0th	1	fibre board, hard board, sunmica, plywood, veneers, nu-wood and study of the brand name and cost of the wood based product	1000	To identify various types of timbers such as Teak, Sal, Chir, Sissoo, Deodar,
		Cement Panel Board, Moulded Door.		Teak, Sal, Chil, Sissoo, Deoual,
	2			
	2	Introduction, purpose and use of paints Types, ingredients, properties and uses of oil paints,		
1th	1	water paints and cement paints. Covering capacity of various paints	11th	a report work on the construction materials
III	1		110	
		Types, properties and uses of varnishes Trade name of different products.		covering water proofing material, cements, steel,
	2	Ferrous metals: Composition, properties and uses of cast iron, mild steel, HYSD steel, high tension steel as per BIS.	1	paints and timber products
	2			
246	1	Commercial forms of ferrous, metals. Aluminium & Stainless Steel.	1.246	
2th	1	Plastics – introduction and uses of various plastic products in buildings	12th	
		doors, water tanks and PVC pipes Fibre Sheets and their manufacture process		cement
	2	Fibre Sheets and their manufacture process.		
	2	Types and uses of insulating materials for sound and thermal insulation		
		Construction chemicals like water proofing compound, epoxies, polymers	101	T. 1.1
3th	1	Water proofing, termite proofing and fire resistance materials – types and uses	13th	To determine normal consistency of cement
		Materials used in interior decoration works like POP, methods of doing POP		
	2	Revision/Discussion	1	
		Revision/Discussion		
4th	1	Revision/Discussion	14th	
		Revision/Discussion		cement
		Revision/Discussion	1	
	2	Revision/Discussion	1	
	_	Revision/Discussion		
5th	1	Revision/Discussion	15th	To determine the water absorption of bricks
	L	Revision/Discussion		efflorescence of bricks
	2	Revision/Discussion		
	- 4	Revision/Discussion		