

ASIAN SCHOOL OF TECHNOLOGY, BHUBANESWAR

DEPARTMENT OF CIVIL ENGINEERING

LESSON PLAN

Discipline: Civil engineering	Semester : 3 rd	No. of periods available: 51	Name of Teaching Faculty: Swatishree Lenka
or an engineering		w (w) w) c)	2 Wallstage Zeman
Subject:	No. of Days/ per		
Building	week class		No. of weeks: 13
Materials and Construction	allotted: 4 periods per week		
techniques	perious per week		
Week	Class Day		Topics to be covered
1 st	1st	1	Classification of rock Uses of stone
			Natural bed of stone and dressing of stone
			Characteristic of different types of stone
	2 nd		and their uses Brick earth and its composition
	Ziid	1	Brick making and preparation of brick
			earth
			Classification of bricks
			Manufacturing process of brick
	3 rd	1	Qualities of good building bricks
			Cement and types of cement Properties of cement
	4 th	1	Manufacturing of cement
2 nd			Importance and application of blended
2	5 th	1	cement
	6 th	1	Mortar and types of mortar
	7 th	1	Sources and classification of sand
	8 th	1	Buckling of sand
3 rd	9 th	1	Use of gravel ,morrum and fly ash
	10 th	1	Definition and composition of concrete
	11 th	1	Water cement ratio, workability
	12 th	1	Properties and grading of aggregate
4 th	13 th	1	Class test
	14 th	1	Mixing
			placing
			,compacting
			and curing of concrete
	15 th	1	Revision
	16 th	 1	Timber and its classification
5 th	17 th	1	Importance and seasoning of timber
	18 th	1	Quiz test
	19 th	 1	Characteristics of good timber
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	20 th	1	Clay products and refractory materials
6 th	21st	1	Uses of cast iron, wrought iron, mild steel
	22 nd	1	Surface protective materials
	23 rd	1	Composition of paints ,enamels, varnishes
	24 th	1	Types and uses of surface protective material
7 th	25 th	1	Varnishes and distempering
	26 th	1	Building and classification of building
	27 th	1	Different components of building
	28 th	1	Site investigation
8 th	29 th	1	Previous year question discussion
	30 th	1	Concept of foundation and its purpose
	31st	1	Types of foundation
	32nd	<u> </u>	Different types of shallow foundation
9 th	33rd	<u> </u>	Wall and purpose of wall
	34 th	<u> </u>	Classification of walls
	35 th	<u>·</u> 1	Brick masonry
	36 th	<u>·</u> 1	Technical terms used in brick masonry
10 th	37 th	<u> </u>	Stone masonry
	38 th	<u> </u>	Glossary of terms used in stone masonry
	39 th	1	Doors windows and lintels
			Glossary of terms used related to door,
	40	1	window
11 th	41st	1	Different types of doors and Different types of windows
	42 nd	1	Purpose and uses of lintel and arches Floors, roofs and staircase
			Terms used in floors
			Terms used in roof.
	43 rd	1	Terms used in staircase
	44th	1	Types of staircase Plastering and types of plastering
	44"	1	Types of plaster finishes
			Purpose of plastering
12 th	45 th	1	Pointing ,types of pointing
13 th	46 th	1	white washing ,colour
	474		washing, distempering Methods of painting
	47th	1	Methods of painting Damp proofing methods and materials
	48 th	1	Damp proofing methods and materials
13	49 th	1	Termite proofing methods
	50 th	1	Class test
	51st	1	Introduction to green building and energy management
	52 nd	1	Types of energy audit
			Energy surveying and audit report