## KIIT POLYTECHNIC, BHUBANESWAR

## **LESSON PLAN**

**Session** (2023-2024)

Discipline : CIVIL	Semester:3 <sup>rd</sup>	Name of the Teaching Faculty: Suchismita Padhi(Lecturer)
ENGINEERING	sem,winter/2022	Email ID: Suchismita.padhifce@kp.kiit.ac.in
Subject:BUILDING	No. Of	Start Date :16/08/23
MATERIALS AND	Days/Week	End Date:30/11/23
CONSTRUCTION	Class Allotted	
TECHNOLOGY(Th.3)	:05	
Week	Class Day	Theory Topics
1st	1st	Rock and Classification of Rock.
	2nd	Uses of stone.
	3rd	Natural bed of stone and dressing of stone.
	4th	Characteristic of different types of stone
		and their uses
	5th	Brick earth and its composition
2nd	1st	Brick making and preparation of brick earth
	2nd	Classification of bricks
	3rd	Manufacturing process of brick
	4th	Classification of bricks
	5th	Qualities of good building bricks
3rd	1st	Cement and types of cement
	2nd	Properties of cement
	3rd	Manufacturing of cement
	4th	Importance and application of blended cement
	5th	Mortar and types of mortar
4th	1 <sup>st</sup>	Sources and classification of sand
	2 <sup>nd</sup>	Buckling of sand
	3 <sup>rd</sup>	Use of gravel morrum and fly ash
	4 <sup>th</sup>	Definition and composition of concrete
	5 <sup>th</sup>	Water cement ratio, workability
5th	1 <sup>st</sup>	Properties and grading of aggregate

	2 <sup>nd</sup>	Class test
	3rd	Mixing placing ,compacting and curing of concrete
	4 <sup>th</sup>	Revision
	5th	Timber and its classification
6th	1 <sup>st</sup>	Importance and seasoning of timber
	2 <sup>nd</sup>	Quiz test
	3 <sup>rd</sup>	Characteristics of good timber
	4 <sup>th</sup>	Clay products and refractory materials
	5th	Uses of cast iron, wrought iron, mild steel
7th	1 st	Surface protective materials
	2 <sup>nd</sup>	Composition of paints ,enamels, varnishes
	3 <sup>rd</sup>	Types and uses of surface protective material
	4 <sup>th</sup>	Varnishes and distempering
	5th	Building and classification of building
8th	1 <sup>st</sup>	Different components of building
	2 <sup>nd</sup>	Site investigation
	3 <sup>rd</sup>	Previous year question discussion
	4 <sup>th</sup>	Concept of foundation and its purpose
	5th	Types of foundation
9th	1 st	Different types of shallow foundation
	2 <sup>nd</sup>	Wall and purpose of wall
	3 <sup>rd</sup>	Classification of walls
	4 <sup>th</sup>	Brick masonry
	5th	Technical terms used in brick masonry
10th	1 st	Stone masonry
	2 <sup>nd</sup>	Glossary of terms used in stone masonry
	3 <sup>rd</sup>	Doors windows and lintels
	4 <sup>th</sup>	Glossary of terms used related to door, window
	5th	Different types of doors
11th	1 <sup>st</sup>	Different types of windows
	2 <sup>nd</sup>	Purpose and uses of lintel and arches
	3 <sup>rd</sup>	Floors, roofs and staircase
	4 <sup>th</sup>	Terms used in floors
	5th	Terms used in roof.

12th	1 <sup>st</sup>	Types of floor
	2 <sup>nd</sup>	Types of roof
	3 <sup>rd</sup>	Terms used in staircase
	4th	Types of staircase
	5th	Plastering and types of plastering
13th	1 <sup>st</sup>	Types of plaster finishes
	2 <sup>nd</sup>	Purpose of plastering
	3 <sup>rd</sup>	Pointing ,types of pointing
	4 <sup>th</sup>	white washing ,colour washing,distempering
	5th	Methods of painting
14th	1st	Damp proofing methods and materials
	2 <sup>nd</sup>	Termite proofing methods
	3 <sup>rd</sup>	Class test
	4 <sup>th</sup>	Introduction to green building and energy management
	5th	Types of energy audit
15th	1 <sup>st</sup>	Energy surveying and audit report
	2 <sup>nd</sup>	Quiz test
	3 <sup>rd</sup>	Revision and previous year question discussion.
	4 <sup>th</sup>	Revision
	5th	Revision