

KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Session-(2023-2024)-WINTER

Discipline: Civil Engg.	Semester: 3 rd , Winter 2023	Name of the Teaching Faculty: Ananyashree Moharana (Lecturer) Email.id ananya.moharanafce@kp.kiit.ac.in
Subject: Estimation & cost evaluation-1,Theory-4	No. Of Days/Week: 4	Start Date: 1/8/2023 End Date: 30/11/2023
Week	Class Day	Theory Topics
1st	1st	Introduction Estimation of building Types of estimates –
	2nd	Units and modes of measurements as per IS 1200, Plinth area, floor area / carpet area
	3rd	Accuracy of measurement for different item of work
	4th	Quantity Estimate of Building Short wall long wall method and centre line method
2nd	1st	Single wall detail drawing discussion
	2nd	Estimation of single wall
	3rd	Single room drawing discussion
	4th	Estimation of single wall
3rd	1st	Deductions in masonry, plastering, white washing, painting etc.,
	2nd	Double room detail drawing discussion and analysis
	3rd	Estimation of building (M.chakraborty)
	4th	Rest item calculation
4th	1st	CLASS TEST
	2nd	Revise Double room estimationE/W excavation

	3rd	PCC,b/w in foundation quantity calculation
	4th	B/W in superstructure, plastering quantity calculation Deduction for B/w and plastering calculation
5th	1st	QUIZ TEST
	2nd	Construction site visit
	3rd	Introduction to multi room
	4th	Detail drawing elaboration of multi room or single stored building
6th	1st	Estimation of E/W excavation
	2nd	Lime concrete in foundation/w in foundation.
	3rd	Dpc,b/w in superstructure quantity calculation.
	4th	Plastering of single room building
7th	1st	Deduction for plastering.
	2nd	Detailed estimate of single storied flat roof building with shallow foundation
	3rd	Quantity calculation of the items
	4th	<i>E/W excavation,pcc</i>
8th	1st	1 st class b/w in foundation and plinth
	2nd	Rate analysis of the estimated quantity
	3rd	Previous content discussion
	4th	Doubt clearing
9th	1st	RCC roof slab with leak proof treatment over it including staircase
	2nd	Introduction to mummy room
	3rd	Introduction to rate analysis.
	4th	Purpose of rate analysis
10 th	1st	Analysis of rates for cement concrete
	2nd	Rate analysis for brick masonry in Cement Mortar
	3rd	laterite stone masonry in Cement Mortar
	4th	Revise
11 th	1st	Rate analysis for cement plaster,
	2nd	white washing, Artificial Stone flooring

	3rd	Rate analysis for Tile flooring, Cost calculation for concrete flooring,
	4th	QUIZ TEST
12 th	1st	Rate analysis for RCC with centring and shuttering
	2nd	Rate analysis for reinforcing steel
	3rd	Rate analysis for Painting of doors and windows etc. as per OPWD. Calculation of lead, lift,
	4th	CLASS TEST
13 th	1st	Conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions
	2nd	Abstract of cost of estimate.
	3rd	Valuation- Value and cost,
	4th	Scrap value, salvage value,
14 th	1st	Assessed value, sinking fund
	2nd	Depreciation and obsolesce, methods of valuation
	3rd	Administrative Set-Up of Engineering Organisations: Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc
	4th	Duties and responsibilities of Engineers at different positions /levels. discussion
15 th	1st	Duties and responsibilities of chief engineer.
	2nd	Duties of Assistant engineer.
	3rd	Duties of junior engineer.
	4th	Previous year question paper discussion