Government polytechnic, Malkangiri

Lesson plan: ESTIMATION & COST EVALUATION – I

Discipline:	Semester	
Civil	: 3 rd	Nome of Too shing formation D.D. DATDO
enginering	N. C	Name of Teaching faculty: P.P. PATRO
Subject: E&CE-I	No. of days/ per week class alloted: 4	Semester from Date: 15/09/2022 To Date: 21/01/22023
Week	Class Day	Topics
		1. Introduction
1 st	1 ST	1.1 Types of estimates – Plinth area, floor area / carpet area
	2 ND	1.2 Units and modes of measurements as per IS 1200
		1.3 Accuracy of measurement for different item of work
		2. Quantity Estimate of Building
	3rd	2.1 Short wall long wall method
Ond	4th	2.1 centre line method,
2 nd	1 st	2.1 deductions in masonry, plastering, white washing, painting etc.,
	2 nd	2.1 deductions in masonry, plastering, white washing, painting etc.,
	3rd	2.1 multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
	4 th	2.1 multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
3 rd	1 st	2.1 multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
	2 nd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation
	3rd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation
	4 th	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation
4 th	1 st	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation
	2 nd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation
	3 rd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation
	4 th	2.2 Detailed estimate of single storied flat roof building with

		shallow foundation and DCC woof slab with look was furnature at
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
5 th	1 st	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
	2 nd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
	3 rd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
	4 th	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room
6 th	1 st	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
	2 nd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
	3 rd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
	4 th	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
7 th	1 st	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
-	2 nd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
· ·	0.1	over it including staircase and mumty room.
	3rd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
	4 th	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
8 th	1 st	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
	2 nd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
	3 rd	2.2 Detailed estimate of single storied flat roof building with
		shallow foundation and RCC roof slab with leak proof treatment

		over it including staircase and mumty room.
	4th	2.2 Detailed estimate of single storied flat roof building with
	•	shallow foundation and RCC roof slab with leak proof treatment
		over it including staircase and mumty room.
9th		3. Analysis of Rates and Valuation
	1 st	3.1 Analysis of rates for cement concrete
	2 nd	3.1 Analysis of rates for cement concrete
	3 rd	3.1 Analysis of rates for cement concrete
	4 th	3.1 brick masonry in Cement Mortar,
10 th	1 st	3.1 brick masonry in Cement Mortar,.
	2 nd	laterite stone masonry in Cement Mortar, cement plaster, white washing,
	3 rd	Artificial Stone flooring
	4 th	Artificial Stone flooring
11 th	1 st	Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.
	2 nd	3.2 Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions)
	3rd	3.2 Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions)
	4th	3.2 Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions)
12 th	1 st	3.3 Abstract of cost of estimate.
	2 nd	3.3 Abstract of cost of estimate.
	3rd	3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.
	4 th	3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.
11 th	1 st	3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.
	2 nd	3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.
		4. Administrative Set-Up of Engineering Organisations:
	3rd	Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc. Duties and
		responsibilities of Engineers at different positions /levels.

	4 th	Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc. Duties and
1 2th	1 at	responsibilities of Engineers at different positions /levels.
12 th	1 st	Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc. Duties and responsibilities of Engineers at different positions /levels.
	2 nd	Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc. Duties and responsibilities of Engineers at different positions /levels.
	3 rd	PYQ
	4 th	PYQ

