Lesson Plan:

(4 periods per week, total 60 periods in SEM)

DISCIPLINE: Civil Engineering	SEMESTER:6 th Semester	NAME OF THE TEACHING FACULTY: P.P. Patro Sr. Lecturer
SUBJECT: Estimation &	NO OF DAYS/PER WEEK	SEMESTER FROM DATE:01.07.2024 TO DATE:
Cost Evaluation-I	CLASSES ALLOTTED:4	NO OF WEEKS:15

Week	Class Day	Topics	
	Introduction		
1 st	1 st	1.1 Types of estimates – Plinth area, floor area / carpet area	
	2nd	1.2 Units and modes of measurements as per IS 1200	
	3rd	1.3 Accuracy of measurement for different item of work	
	4th	1.3 Accuracy of measurement for different item of work	
2 nd		Quantity Estimate Of Building	
	1 ST	2.1 Short wall long wall method and centre line method,	
	2 ND	deductions in masonry,	
	3 RD	plastering, white washing, painting etc	
	4 TH	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.	
3rd	1st	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.	
	2nd	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.	
	3rd	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.	

	4.4			
	4th	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.		
		Analysis Of Rate and Valuation		
4 th	1 st	3.1Analysis of rates for cement concrete,		
	2 nd	brick masonry in Cement Mortar,		
	3 rd	laterite stone masonry in Cement Mortar,		
	4 th	cement plaster		
5 th	1 st	white washing,		
	2 nd	Artificial Stone flooring,		
	3 rd	Tile flooring, concrete flooring		
	4 th	R.C.C. with centering and shuttering		
6th		4.Natural Resource (Energy)		
	1st	reinforcing steel,		
	2nd	Painting of doors and windows etc. as per OPWD.		
	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)		
7th		4.Natural Resource (Land)		
	1st	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)		
	2nd	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				
8 th	1 st	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)		
	2 nd	3.2 Calculation of lead, lift, conveyance charges, royalty of materials, etc.		
	3 rd	as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions) Abstract of cost of estimate.		
	4 th	Abstract of cost of estimate.		

9 th	1 st	Abstract of cost of estimate.
	2 nd	Abstract of cost of estimate.
	3 rd	Abstract of cost of estimate.
	4 th	Valuation- Value and cost,
10 th	1 st	Valuation- Value and cost,
	2 nd	scrap value, salvage value, assessed value,
	3 rd	scrap value, salvage value, assessed value,
	4th	scrap value, salvage value, assessed value,
11 th	1 st	scrap value, salvage value
	2 nd	sinking fund
	3 rd	depreciation and obsolesce
	4 th	depreciation and obsolesce
12 th	1 st	methods of valuation.
	2 nd	methods of valuation.
		Administrative Set -Up Of Engineering Organisation
	3rd	4.1 Administrative set-up and hierarchy of Engineering department in State
		Govt./Central Govt./PSUs/Private Sectors etc.
	4th	4.1 Administrative set-up and hierarchy of Engineering department in State
		Govt./Central Govt./PSUs/Private Sectors etc.
13th	1st	4.1 Administrative set-up and hierarchy of Engineering department in State
		Govt./Central Govt./PSUs/Private Sectors etc.
	2nd	4.1 Administrative set-up and hierarchy of Engineering department in State
		Govt./Central Govt./PSUs/Private Sectors etc.
	3rd	4.1 Administrative set-up and hierarchy of Engineering department in State
		Govt./Central Govt./PSUs/Private Sectors etc.
	4th	4.1 Administrative set-up and hierarchy of Engineering department in State
		Govt./Central Govt./PSUs/Private Sectors etc.
14 th	1 st	4.1 Administrative set-up and hierarchy of Engineering department in State
		Govt./Central Govt./PSUs/Private Sectors etc.
	2 nd	4.1 Administrative set-up and hierarchy of Engineering department in State
		Govt./Central Govt./PSUs/Private Sectors etc.
	3 rd	4.1 Administrative set-up and hierarchy of Engineering department in State
	1	Govt./Central Govt./PSUs/Private Sectors etc

	4 th	4.1 Administrative set-up and hierarchy of Engineering department in State	
		Govt./Central Govt./PSUs/Private Sectors etc	
15 th	1 st	Duties and responsibilities of Engineers at different positions /levels.	
	2 nd	Duties and responsibilities of Engineers at different positions /levels.	
	3 rd	Duties and responsibilities of Engineers at different positions /levels.	
	4 th	Duties and responsibilities of Engineers at different positions /levels.	