

## LESSON PLAN FOR WINTER 2023

Department: Civil Engineering	Semester : 3RD SEC-B	Name of the Teaching faculty: Jasodhara Sahoo	
Subject :- Th.4 ESTIMATION AND COST EVALUATION-1	No.of Days/ week class allotted : 03/week (4 Periods)	Semester from date: 01/08/2023 to 30/11/2023 No. of Weeks :18 Topics to be covered:-	
Week	Class Day	Topics	Remarks
		<b>1.0 INTRODUCTION (2P)</b>	
1ST WEEK	DAY 1	1.1 Types of estimates – Plinth area, floor area / carpet area	
	DAY 2	1.2 Units and modes of measurements as per IS 1200 1.3 Accuracy of measurement for different item of work	
		<b>2.0 QUANTITY ESTIMATE OF BUILDING(30P)</b>	
	DAY 2	2.1 Short wall long wall method and centre line method, deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.	
	DAY 3	2.1 Short wall long wall method and centre line method, deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.	
2ND WEEK	DAY 1	2.1 Short wall long wall method and centre line method, deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.	
	DAY 2	2.1 Short wall long wall method and centre line method, deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.	
	DAY 3	2.1 Short wall long wall method and centre line method, deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.	

3RD WEEK	DAY 1	2.1 Short wall long wall method and centre line method, deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.	
	DAY 2	2.1 Short wall long wall method and centre line method, deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.	
	DAY 3	2.1 Short wall long wall method and centre line method, deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.	
4TH WEEK	DAY 1	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.	
	DAY 2	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.	
	DAY 3	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.	
5TH WEEK	DAY 2	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.	
	DAY 3	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.	
6TH WEEK	DAY 2	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.	
	DAY 3	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.	

7TH WEEK	DAY 1	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.	
	DAY 2	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.	
	DAY 3	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.	
8TH WEEK	DAY 2	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.	
	DAY 3	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 WEEK	DAY 1	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.	
	DAY 2	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.	
		<b>3. ANALYSIS OF RATES AS PER PWD SPECIFICATIONS / STANDARDS (22P)</b>	
10TH WEEK	DAY 1	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	
	DAY 2	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	

	DAY 3	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	
11TH WEEK	DAY 1	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	
	DAY 2	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	
	DAY 3	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	
12TH WEEK	DAY 1	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	
	DAY 2	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	

	DAY 3	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	
13TH WEEK		PUJA HOLIDAYS	
14TH WEEK	DAY 1	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	
	DAY 2	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, whitewashing, Artificial Stoneflooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.	
	DAY 3	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)	
15TH WEEK	DAY 1	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)	
	DAY 2	3.3 Abstract of cost of estimate	
	DAY 3	3.3 Abstract of cost of estimate	
16TH WEEK	DAY 1	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)	
	DAY 2	3.4 VALUATION - value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolescence, methods of valuation	
		4. ADMINISTRATIVE SET-UP OF ENGINEERING ORGANISATIONS: (4P)	
		4.1 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.	

	DAY 3	4.1 Administrative set-up and hierarchy of Engineering department in State Govt./CentralGovt./PSUs/PrivateSectors etc. Duties and responsibilities of Engineers at different positions/levels.	
17TH WEEK	DAY 1	4.1 Administrative set-up and hierarchy of Engineering department in State Govt./CentralGovt./PSUs/PrivateSectors etc. Duties and responsibilities of Engineers at different positions/levels.	
	DAY 2	4.1 Administrative set-up and hierarchy of Engineering department in State Govt./CentralGovt./PSUs/PrivateSectors etc. Duties and responsibilities of Engineers at different positions/levels. REVISION	
	DAY 3	REVISION	
	DAY 1	REVISION	
18TH WEEK	DAY 2	REVISION	**

*Jasodharra Sahoo*  
 01/08/2023  
 SIGNATURE OF THE FACULTY