

**BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING**



LESSON PLAN

SUBJECT: ESTIMATION & COST EVALUATION-I (TH 4)

FACULTY: SRI ABHIJIT SAHOO

ACCADEMIC SESSION: 2024-25

SEMESTER: 3RD

SEC: A

Sd/-

H O D (Civil Engg.)

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Discipline: Civil Engineering	Semester: 3rd(A)		Name of teaching faculty: Sri Abhijit Sahoo
Subject: Estimation & Cost Evaluation-I	No of days /per week class allotted: 04 periods per week. (Wed-1, Thu-1, Fri-, Sat-1)		Semester From Date: 01-07-2024 To Date: 08-11-2024 No of weeks: 18 weeks
Week	Date	No of period available	Topics to be covered
1ST	03/07/2024	1	Introduction 1.1 Types of estimates
	04/07/2024	1	Introduction 1.1 Types of estimates
	05/07/2024	1	1.1 Types of estimates
	06/07/2024	1	1.1 Plinth area, floor area / carpet area
2ND	10/07/2024	1	1.2 Units and modes of measurements as per IS1200
	11/07/2024	1	1.3 Accuracy of measurement for different item of work
	12/07/2024	1	1.3 Accuracy of measurement for different item of work
	13/07/2024	1	2.0 Quantity Estimate of Building 2.1.Short wall long wall method
3RD	18/07/2024	1	2.1Centre line method
	19/07/2024	1	2.1.Centre line method
	20/07/2024	1	2.1.Deductions in masonry, plastering, white washing, painting etc
4TH	24/07/2024	1	2.1Multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
	25/07/2024	1	2.1Multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed),

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	26/07/2024	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 stair case and mumty room.
	27/07/2024	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 stair case and mumty room.
5TH	31/07/2024	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 stair case and mumty room.
	01/08/2024	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 stair case and mumty room.
	02/08/2024	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 stair case and mumty room.
	03/08/2024	1	2.2. Earthwork excavation, Concrete work in foundation.
6TH	07/08/2024	1	2.2. Earthwork excavation, Concrete work in foundation.
	08/08/2024	1	2.2. Brick work in foundation and plinth, DPC.
	09/08/2024	1	2.2 Wood work calculation, painting.
	10/08/2024	1	2.2 Wood work calculation, painting.
7TH	14/08/2024	1	2.2 Practice of another building estimate.
	16/08/2024	1	2.2 Continued
	17/08/2024	1	2.2.Continued
8TH	21/08/2024	1	2.2.Continued
	22/08/2024	1	2.2.Continued
	23/08/2024	1	2.2.Continued
	24/08/2024	1	2.2.Continued
9TH	28/08/2024	1	2.2.Continued

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	29/08/2024	1	Monthly Class Test 01
	30/08/2024	1	3.0.Analysis of Rates and Valuation
	31/08/2024	1	3.0.Analysis of Rates and Valuation
10TH	04/09/2024	1	3.0.Analysis of Rates and Valuation
	05/09/2024	1	3.0.Analysis of Rates and Valuation
	06/09/2024	1	3.1.Analysis of rates for cement concrete, brick masonry in Cement Mortar,
11TH	11/09/2024	1	3.1.Analysis of rates for cement concrete, brick masonry in Cement Mortar,
	12/09/2024	1	INTERNAL ASSESSMENT
	13/09/2024	1	INTERNAL ASSESSMENT
	14/09/2024	1	3.1.Analysis of rates for Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel
12TH	18/09/2024	1	3.1Analysis of rates for Painting of doors and windows etc. as per OPWD.
	19/09/2024	1	3.1Analysis of rates for Painting of doors and windows etc. as per OPWD.
	20/09/2024	1	3.1Analysis of rates for Painting of doors and windows etc. as per OPWD.
	21/09/2024	1	3.2.Calculation of lead, lift, conveyance charges, royalty of materials, etc.
13TH	25/09/2024	1	3.2 As per Orissa P.W.D. system (Concept of C.P.W.D./ Railways provisions)
	26/09/2024	1	3.2. Continued
	27/09/2024	1	3.2. Continued
	28/09/2024	1	3.3 Abstract of cost of estimate.
14TH	3/10/2024	1	3.4. Valuation- Value and cost, scrap value, salvage value.

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	04/10/2024	1	3.4 Assessed value, sinking fund
	05/10/2024	1	3.4. Depreciation and obsolescence, Methods of valuation
15TH	17/10/2024	1	4. Administrative Set-Up of engineering Organizations:
	18/10/2024	1	4.1. Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt. / PSUs / Private Sectors etc
	19/10/2024	1	4.1. Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt. / PSUs / Private Sectors etc
16TH	23/10/2024	1	4.1. Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt. / PSUs / Private Sectors etc
	24/10/2024	1	4.1 Duties and responsibilities of Engineers at different positions /levels.
	25/10/2024	1	4.1 Duties and responsibilities of Engineers at different positions /levels.
	26/10/2024	1	Monthly Class Test 02
17TH	30/10/2024	1	Revision
	01/11/2024	1	Revision
	02/11/2024	1	Revision
18TH	06/11/2024	1	Previous Year Question Discussion
	07/11/2024	1	Previous Year Question Discussion
	08/11/2024	1	Previous Year Question Discussion