

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING



LESSON PLAN

SUBJECT: ESTIMATION AND COST EVALUATION (TH 4)

FACULTY: ABHIJIT SAHOO

ACCADEMIC SESSION: 2023-23

SEMESTER: 3RD

SEC: A

Sd/-
H O D (Civil Engg.)

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Discipline: Civil Engineering	Semester: 3rd		Name of teaching faculty: MALABIKA PATRA
Subject: Estimation & Cost Evaluation-I	No of days /per week class allotted: 04 periods per week. (Mon,Tue ,wed,Fri -1 periods)		Semester From Date: 01-08-2023 To Date: 30-11-2023 No of weeks: 14 weeks
Week	Date	No of period available	Topics to be covered
1ST	16/08/2023	1	1.1 Introduction 1.1 Types of estimates
	17/08/2023	1	1.1 Plinth area, floor area / carpet area
2ND	19/08/2023	1	1.2 Units and modes of measurements as per IS1200
	20/08/2023	1	1.3 Accuracy of measurement for different item of work
	21/08/2023	1	2.0 Quantity Estimate of Building 2.1.Short wall long wall method
	23/08/2023	1	2.1.Short wall long wall method
3RD	26/08/2023	1	2.1Centre line method
	27/08/2023	1	2.1.Centre line method
	28/08/2023	1	2.1.Deductions in masonry, plastering, white washing, painting etc
	30/08/2023	1	2.1.Deductions in masonry, plastering, white washing, painting etc

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4TH	10/09/2023	1	2.1 Multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
	11/09/2023	1	2.1 Multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed),
	12/10/2023	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 mummy room.
	14/10/2023	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 mummy room.
5TH	17/09/2023	1	2.2. Earthwork excavation, Concrete work in foundation.
	18/09/2023	1	2.2. Earthwork excavation, Concrete work in foundation.
	19/09/2023	1	2.2. Brick work in foundation and plinth, DPC.
	21/09/2023	1	2.2 Brick work in super structure, plastering, RCC work .
6TH	25/09/2023	1	2.2 Wood work calculation, painting.
	26/09/2023	1	2.2 Practice of another building estimate.
	28/09/2023	1	2.2. Continued
7TH	31/09/2023	1	Class test
	01/10/2023	1	2.2. Continued
	02/10/2023	1	2.2. Continued
	04/10/2023	1	2.2. Continued
8TH	07/10/2023	1	2.2. Continued
	09/10/2023	1	2.2 Continued
	11/10/2023	1	2.2. Continued
9TH	14/10/2023	1	3.0. Analysis of Rates and Valuation 3.1. Analysis of rates for cement concrete, brick masonry in Cement Mortar,

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	15/10/2023	1	3.1.Laterite stone masonry in Cement Mortar
	16/10/2023	1	3.1.Analysis of rates for cement plaster, white washing, Artificial Stone flooring
	18/10/2023	1	3.1.Analysis of rates of Artificial Stone flooring.
10TH	21/10/2023	1	3.1.Analysis of rates for Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel
	22/10/2023	1	3.1Analysis of rates for Painting of doors and windows etc. as per OPWD.
	23/10/2023	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)
	25/10/2023	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)
11TH	28/10/2023	1	3.2. Continued
	29/10/2023	1	3.3 Abstract of cost of estimate.
	30/10/2023	1	Class test
	02/11/2023	1	3.3 Abstract of cost of estimate.
12TH	05/11/2023	1	3.4.Valuation- Value and cost, scrap value, salvage value
	06/11/2023	1	3.4 Assessed value, sinking fund
	07/11/2023	1	3.4.Depreciation and obsolesce
	09/11/2023	1	3.4, Methods of valuation
13TH	12/11/2023	1	4.Administrative Set-Up of engineering Organisations: 4.1.Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt. / PSUs / Private Sectors etc
	13/11/2023	1	4.1.Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt. / PSUs / Private Sectors etc

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	14/11/2023	1	4.1 Duties and responsibilities of Engineers at different positions /levels.
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14TH	25/11/2023	1	Class test
	29/11/2023	1	REVISSION
	30/11/2023	1	REVISSION