

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



**LESSON PLAN**

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

**FACULTY: SMT. MALABIKA PATRA**

**ACCADEMIC SESSION: 2024-25**

**SEMESTER: 3<sup>RD</sup>**

**SEC: C**

Sd/-

H O D (Civil Engg.)

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<b>Discipline: Civil Engineering</b>	<b>Semester: 3<sup>rd</sup>(C)</b>		<b>Name of teaching faculty: SMT. MALABIKA PATRA</b>
<b>Subject: Estimation &amp; Cost Evaluation-I</b>	<b>No of days /per week class allotted: 04 periods per week. (Mon-1,Tue-1,Fri-2)</b>		<b>Semester From Date: 01-07-2024 To Date: 08-11-2024 No of weeks: 18 weeks</b>
<b>Week</b>	<b>Date</b>	<b>No of period available</b>	<b>Topics to be covered</b>
1ST	01/07/2024	1	Introduction 1.1 Types of estimates
	02/07/2024	1	1.1 Types of estimates
	05/07/2024	2	1.1 Plinth area, floor area / carpet area
2ND	08/07/2024	1	1.2 Units and modes of measurements as per IS1200
	09/07/2024	1	1.3 Accuracy of measurement for different item of work
	12/07/2024	2	2.0 Quantity Estimate of Building 2.1.Short wall long wall method
3RD	15/07/2024	2	2.1Centre line method
	16/07/2024	1	2.1.Centre line method
	19/07/2024	1	2.1.Deductions in masonry, plastering, white washing, painting etc
4TH	22/07/2024	1	2.1Multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
	23/07/2024	1	2.1Multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed),
	26/07/2024	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 stair case and mumty room.
5TH	29/07/2024	1	2.2. Detailed estimate of single storied flat roof building with shallow foundation and

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			RCC roof slab with leak proof treatment over it including stair case and mumty room.
	30/07/2024	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.
	02/08/2024	2	2.2. Earthwork excavation, Concrete work in foundation.
6TH	05/08/2024	1	2.2. Earthwork excavation, Concrete work in foundation.
	06/08/2024	1	2.2. Brick work in foundation and plinth, DPC.
	09/08/2024	2	2.2 Wood work calculation, painting.
7TH	12/08/2024	1	2.2 Practice of another building estimate.
	13/08/2024	1	2.2 Continued
	16/08/2024	2	2.2.Continued
8TH	20/08/2024	1	2.2.Continued
	23/08/2024	2	2.2.Continued
9TH	27/08/2024	1	2.2.Continued
	30/08/2024	2	<b>Monthly Class Test 01</b>
10TH	02/09/2024	1	3.0.Analysis of Rates and Valuation
	03/09/2024	1	3.1.Analysis of rates for cement concrete, brick masonry in Cement Mortar,
	06/09/2024	2	3.1.Analysis of rates for cement concrete, brick masonry in Cement Mortar,
11TH	09/09/2024	1	3.1.Analysis of rates for cement concrete, brick masonry in Cement Mortar,
	10/09/2024	1	3.1.Laterite stone masonry in Cement Mortar
	13/09/2024	2	<b>INTERNAL ASSESSMENT</b>
12TH	17/09/2024	1	3.1.Analysis of rates for Tile flooring, concrete flooring, R.C.C. with centering and

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			shuttering, reinforcing steel
	20/09/2024	2	3.1 Analysis of rates for Painting of doors and windows etc. as per OPWD.
13TH	23/09/2024	1	3.2. Calculation of lead, lift, conveyance charges, royalty of materials, etc.
	24/09/2024	1	3.2 As per Orissa P.W.D. system (Concept of C.P.W.D./ Railways provisions)
	27/09/2024	2	3.2. Continued
14TH	01/10/2024	1	3.3 Abstract of cost of estimate.
	04/10/2024	2	3.4. Valuation- Value and cost, scrap value, salvage value.
15TH	15/10/2024	1	3.4 Assessed value, sinking fund, Depreciation and obsolesce, Methods of valuation
	18/10/2024	1	4. Administrative Set-Up of engineering Organizations:
16TH	21/10/2024	2	4.1. Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt. / PSUs / Private Sectors etc
	22/10/2024	1	4.1. Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt. / PSUs / Private Sectors etc
	25/10/2024	2	4.1 Duties and responsibilities of Engineers at different positions /levels.
17TH	28/10/2024	1	<b>Monthly Class Test 02</b>
	29/10/2024	1	Revision
	01/11/2024	2	Revision
18TH	04/11/2024	1	Revision
	05/11/2024	1	Previous Year Question Discussion
	08/11/2024	2	Previous Year Question Discussion

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