

**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: 3RD

SEC: B

Sd/-

H O D (Civil Engg.)

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING
LESSON PLAN

Discipline: Civil Engineering	Semester: 3rd(B)		Name of teaching faculty: SMT. MALABIKA PATRA
Subject: Estimation & Cost Evaluation-I	No of days /per week class allotted: 04 periods per week. (Mon-2,Tue-1,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	01/07/2024	2	Introduction 1.1 Types of estimates
	02/07/2024	1	1.1 Types of estimates
	06/07/2024	1	1.1 Plinth area, floor area / carpet area
2ND	08/07/2024	2	1.2 Units and modes of measurements as per IS1200
	09/07/2024	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	15/07/2024	2	2.1Centre line method
	16/07/2024	1	2.1.Centre line method
	20/07/2024	1	2.1.Deductions in masonry, plastering, white washing, painting etc
4TH	22/07/2024	2	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),
	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	29/07/2024	2	2.2. Detailed estimate of single storied flat roof building with shallow foundation and

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING
LESSON PLAN

			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.
	03/08/2024	1	2.2. Earthwork excavation, Concrete work in foundation.
6TH	05/08/2024	2	2.2. Earthwork excavation, Concrete work in foundation.
	06/08/2024	1	2.2. Brick work in foundation and plinth, DPC.
	10/08/2024	1	2.2 Wood work calculation, painting.
7TH	12/08/2024	2	2.2 Practice of another building estimate.
	13/08/2024	1	2.2 Continued
	17/08/2024	1	2.2.Continued
8TH	20/08/2024	1	2.2.Continued
	24/08/2024	1	2.2.Continued
9TH	27/08/2024	1	2.2.Continued
	31/08/2024	1	Monthly Class Test 01
10TH	02/09/2024	2	3.0.Analysis of Rates and Valuation
	03/09/2024	1	3.1.Analysis of rates for cement concrete, brick masonry in Cement Mortar,
11TH	09/09/2024	2	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
	14/09/2024	1	3.1.Analysis of rates for Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel
12TH	17/09/2024	1	3.1Analysis of rates for Painting of doors and windows etc. as per OPWD.

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING
LESSON PLAN

	21/09/2024	1	3.2.Calculation of lead, lift, conveyance charges, royalty of materials, etc.
13TH	23/09/2024	2	3.2 As per Orissa P.W.D. system (Concept of C.P.W.D./ Railways provisions)
	24/09/2024	1	3.2. Continued
	28/09/2024	1	3.3 Abstract of cost of estimate.
14TH	30/09/2024	2	3.4. Valuation- Value and cost, scrap value, salvage value.
	01/10/2024	1	3.4 Assessed value, sinking fund
	05/10/2024	1	3.4.Depreciation and obsolesce, Methods of valuation
15TH	14/10/2024	2	4.Administrative Set-Up of engineering Organizations:
	15/10/2024	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	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 Duties and responsibilities of Engineers at different positions /levels.
	26/10/2024	1	Monthly Class Test 02
17TH	28/10/2024	2	Revision
	29/10/2024	1	Revision
	02/11/2024	1	Revision
18TH	04/11/2024	2	Previous Year Question Discussion
	05/11/2024	1	Previous Year Question Discussion

BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK
DEPARTMENT OF CIVIL ENGINEERING
LESSON PLAN