

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



LESSON PLAN

SUBJECT: ESTIMATION & COST EVALUATION-1 (TH 4)

FACULTY: SRI ABINASH PANDA

ACCADEMIC SESSION: 2022-23

SEMESTER: 3RD

SEC: C

Sd/-

H O D (Civil Engg.)

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Discipline Civil engineering	Semester- 3rd, Sec- C		Name of the teaching faculty: SRI ABINASH PANDA
Subject ESTIMATION & COST EVALUATION-1	No of Days / per week class allotted :04 period per week Monday-1p ,Tuesday -1p Wedness-1p, Saturday-1p		Semester starts from date -15/09/2022 to date 22/12/2022 No of weeks : 14 weeks
Week	Class date	No of period available	Topics to be covered
1ST	17/09/2022	1	1. Introduction 1.1.Types of estimates – Plinth area, floor area / carpetarea
2ND	19/09/2022	1	1.2. Units and modes of measurements as per IS1200
	20/09/2022	1	1.2. Units and modes of measurements as per IS1200
	21/09/2022	1	1.3. Accuracy of measurement for different item ofwork
	24/09/2022	1	2.0.Quantity Estimate of Building 2.1.Short wall long wall method and centre line method
3RD	26/09/2022	1	2.0.Quantity Estimate of Building 2.1.Short wall long wall method and centre line method
	27/09/2022	1	2.1. Short wall long wall method and centre line method

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	28/09/2022	1	2.1.deductions in masonry, plastering, white washing, painting etc.,
	01/10/2022	1	2.1.multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grillsetc.
4TH	10/10/2022	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.
	11/10/2022	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.
	12/10/2022	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..
	15/10/2022	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.
5TH	17/10/2022	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.
	18/10/2022	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.
	19/10/2022	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.
	22/10/2022	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.
6TH	25/10/2022	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.
	26/10/2022	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.

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	29/10/2022	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.
7TH	31/10/2022	1	Monthly test-1
	01/11/2022	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.
	02/11/2022	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.
	05/11/2022	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.
8TH	07/11/2022	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.
	09/11/2022	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.
	12/11/2022	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.
9TH	14/11/2022	1	3.0. Analysis of Rates and Valuation 3.1. Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar ,cement plaster, white washing, Artificial Stone flooring
	15/11/2022	1	INTERNAL ASSESSMENT
	16/11/2022	1	INTERNAL ASSESSMENT
	19/11/2022	1	3.1. Analysis of rates for Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel
10TH	21/11/2022	1	3.1. Analysis of rates for Painting of doors and windows etc. as per OPWD.

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	22/11/2022	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)
	23/11/2022	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)
	26/11/2022	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	28/11/2022	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)
	29/11/2022	1	3.3. Abstract of cost of estimate.
	30/11/2022	1	Monthly class test -2
	03/12/2022	1	3.3. Abstract of cost of estimate.
12TH	05/12/2022	1	3.4. Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund
	06/12/2022	1	3.4. depreciation and obsolesce
	07/12/2022	1	3.4. Methods of valuation
	10/12/2022	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
13TH	12/12/2021	2	4.1. Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc
	13/12/2021	1	4.1 .Duties and responsibilities of Engineers at different positions /levels
	14/12/2021	1	4.1 .Duties and responsibilities of Engineers at different positions /levels
	17/12/2021	1	Monthly class test -3

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14TH	19/12/2022	1	Previous year question discussion
	20/12/2022	1	REVISSION
	21/01/2022	1	REVISSION