

# PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



## LESSON PLAN Session-2023-2024

Discipline: Civil Engineering Engg. Semester: 3RD

Subject: Estimation & cost evaluation-I

Name of the Teaching Faculty: Satyenderayan Bhusagar

# Estimation &

Subject: cost Evaluation - I No. of Days/per week class allotted 04

Semester From Date: 1/8/23 To Date: 30/1/23 No. of Weeks: 15

Week	Class Day	Theory / Practical Topics
1	1st	Types of estimates - plinth area, carpet area
	2nd	units & modes of measurements as per IS 1200
	3rd	Accuracy & measurements for different items of work
	4th	Introduction to Long wall short wall method
2	1st	Numericals on long wall short wall method
	2nd	Numericals on long wall short wall method
	3rd	Numericals on long wall short wall method
	4th	Numericals on long wall short wall method
3	1st	Introduction to centre-line method
	2nd	Numericals on centre-line method
	3rd	Numericals on centre-line method
	4th	Numericals on centre-line method

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Estimation &

Subject: cost Evaluation - I No. of Days/per week class allotted 04

Semester From Date: 1/8/23 To Date: 30/11/23 No. of Weeks: 15

Week	Class Day	Theory / Practical Topics
4	1st	Numericals on centre-line method
	2nd	Revision on long wall & short wall method
	3rd	Revision on centre-line method
	4th	Deduction on brick masonry work
5	1st	Deduction on plastering, white washing, painting.
	2nd	Multiplying factor for painting of door, window grills
	3rd	Multiplying factor for painting of door, window grills.
	4th	Revision about masonry work white washing, painting deduction
6	1st	Revision about multiplying factor for painting of door windows grills.
	2nd	Introduction about single storied building & components.
	3rd	Detailed estimate of single storied building
	4th	Detailed estimate of single storied building.

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Week	Class Day	Theory / Practical Topics
7	1st	Detailed estimate of single storied building
	2nd	Detailed estimate of shallow foundation
	3rd	Detailed estimate of RCC slab work
	4th	Detailed estimate of RCC slab with leak proof treatment
8	1st	Detailed estimate of staircase & mummy room
	2nd	Revision about single storied building
	3rd	Revision about shallow foundation.
	4th	Revision about estimate of RCC slab work.
9	1st	Revision about leak proof treatment, staircase & mummy room
	2nd	Analysis of rates for cement concrete.
	3rd	Analysis of brick masonry on cement mortar
	4th	Analysis of laterite stone masonry on cement mortar

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Week	Class Day	Theory /Practical Topics
10	1st	Analyses of cement plaster, white washing, Artificial stone flooring
	2nd	Analyses of tile flooring concrete flooring
	3rd	Analyses of R.C.C with centering & shuttering reinforcing steel
	4th	Analyses of painting doors & windows etc as per of W/D.
11	1st	Calculation of lead with conveyance charges.
	2nd	Calculation of royalty of materials as per of W/D.
	3rd	concept of CPWD/Railways provision.
	4th	Estimate of Abstract cost.
12	1st	valuation of value of cost.
	2nd	valuation of scrap value
	3rd	valuation of salvage value
	4th	valuation of assessed value sinking fund.

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Week	Class Day	Theory / Practical Topics
13	1st	valuation of depreciation & obsolescence
	2nd	Example & calculation of methods of valuation.
	3rd	Revision about Analysis of rates for different work
	4th	Revision about Analysis of rates for cement work
14	1st	Revision about concreting, Flooring, painting, as per' OPWD.
	2nd	Revision about calculation of lead, lift, royalty.
	3rd	Revision of Abstract of Estimated cost
	4th	Revision of valuation of scrap value, salvage value.
15	1st	Duties & Responsibility of Engineers.
	2nd	Administrative set up & hierarchy of engineering department.
	3rd	state govt., central govt., PSU administrative set up
	4th	Revision about administrative set up role of engineers.

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