

INSTITUTE OF ENGINEERING AND MANAGEMENT

GOURAHARI VIHAR, PO: RANIPUT, JEYPORE – 764 005

LESSON PLAN

Name of the Subject: Estimation & Cost Evaluation- I

Name of the Faculty: Nandi Ghosh Behera

Semester: Third Semester

Semester From: July to December

Branch: Civil Engineering

No. of Weeks: 15 Weeks

Week	Class Day	Theory/ Practical Topics
1 st	1 st	1.0 INTRODUCTION : 1.1 Types of estimates – Plinth area, floor area / carpet area
	2 nd	1.2 Units and modes of measurements as per IS 1200 1.3 Accuracy of measurement for different item of work
	3 rd	2.0 QUANTITY ESTIMATE OF BUILDING 2.1 Short wall long wall method and centre line method
	4 th	Problems
2 nd	1 st	Deductions in masonry,
	2 nd	Problems
	3 rd	Plastering
	4 th	Problems
3 rd	1 st	white washing,
	2 nd	Problems
	3 rd	Painting etc., multiplying factor
	4 th	Problems
4 th	1 st	Painting etc.
	2 nd	For painting of doors and windows (paneled/glazed), grills etc. as per OPWD scheduled of rates.
	3 rd	Problems
	4 th	Problems
5 th	1 st	Problems
	2 nd	Problems
	3 rd	Detailed estimate of single storied flat roof building with shallow foundation
	4 th	Problems
6 th	1 st	Problems
	2 nd	RCC roof slab with leak proof treatment over it including
	3 rd	Problems
	4 th	Problems
7 th	1 st	2.3 Detailed estimate of a simple inclined roof building with gabled / hipped roof
	2 nd	Problems
	3 rd	Problems
	4 th	A.C. sheet / G.C.I. sheet roofing.
8 th	1 st	Problems
	2 nd	Problems
	3 rd	Problems

	4 th	3.0 ANALYSIS OF RATES AS PER OPWD SPECIFICATIONS / STANDARDS 3.1 Analysis of rates for cement concrete
9 th	1 st	Problems
	2 nd	Problems
	3 rd	Problems
	4 th	Brick masonry in Cement Mortar
10 th	1 st	Problems
	2 nd	laterite stone masonry in Cement Mortar ,
	3 rd	Problems
	4 th	Problems
11 th	1 st	Cement plaster
	2 nd	Problems
	3 rd	White washing ,Artificial Stone flooring,
	4 th	Problems
12 th	1 st	concrete flooring,
	2 nd	Problems
	3 rd	R.C.C. with centering and shuttering, reinforcing steel,
	4 th	Problems
13 th	1 st	Painting of doors and windows etc
	2 nd	Problems
	3 rd	3.2 Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system
	4 th	3.3 Abstract of cost of estimate.
14 th	1 st	4.0 ADMINISTRATIVE SET-UP OF ENGINEERING ORGANISATIONS
	2 nd	4.1 Administrative set-up and hierarchy of Engineering Deptt. Duties of responsibilities of Engineers at different positions /levels
	3 rd	DOUBT CLEARING CLASSES
	4 th	PREVIOUS YEAR QUESTION DISCUSSION
15 th	1 st	REVISION