

**GOVERNMENT POLYTECHNIC JAJPUR**

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**DEPARTMENT OF CIVIL ENGINEERING**

**LESSON PLAN**

<b>Discipline:</b> Civil Engg.	<b>Semester:</b> 3rd	<b>Name of the Teaching faculty:</b> Er. Shibasis Panda
<b>Subject:</b> Estimation & cost evaluation-I Th-4	<b>No of Days/Week class allotted:</b> 4	<b>Semester from Date:</b> 01.07.2024 <b>To Date:</b> 08.11.2024 <b>No of weeks:</b> 15
<b>Week</b>	<b>Class Day</b>	<b>Topics</b>
1st	1st	1.0 INTRODUCTION : 1.1 Types of estimates – Plinth area, floor area / carpet area
	2nd	1.2 Units and modes of measurements as per IS 1200 1.3 Accuracy of measurement for different item of work
	3rd	2.0 QUANTITY ESTIMATE OF BUILDING 2.1 Short wall long wall method and centre line method
	4th	Problems
2nd	1st	deductions in masonry,
	2nd	Problems
	3rd	plastering,
	4th	Problems
3rd	1st	white washing,
	2nd	Problems
	3rd	painting etc., multiplying factor
	4th	Problems
4th	1st	painting etc.,
	2nd	for painting of doors and windows (paneled/glazed), grills etc. as per OPWD scheduled of rates.
	3rd	Problems
	4th	Problems
5th	1st	Problems
	2nd	Problems
	3rd	Detailed estimate of single storied flat roof building with shallow foundation and
	4th	Problems
6th	1st	Problems
	2nd	RCC roof slab with leak proof treatment over it including
	3rd	Problems
	4th	Problems
7th	1st	2.3 Detailed estimate of a simple inclined roof building with gabled / hipped roof
	2nd	Problems

	3rd	Problems
	4th	and A.C. sheet / G.C.I. sheet roofing.
8th	1st	Problems
	2nd	Problems
	3rd	Problems
	4th	3.0ANALYSIS OF RATES AS PER OPWD SPECIFICATIONS / STANDARDS 3.1 Analysis of rates for cement concrete
9th	1st	Problems
	2nd	Problems
	3rd	Problems
	4th	brick masonry in Cement Mortar
10th	1st	Problems
	2nd	laterite stone masonry in Cement Mortar,
	3rd	Problems
	4th	Problems
11th	1st	cement plaster
	2nd	Problems
	3rd	white washing ,Artificial Stone flooring,
	4th	Problems
12th	1st	concrete flooring,
	2nd	Problems
	3rd	R.C.C. with centering and shuttering, reinforcing steel,
	4th	Problems
13th	1st	Painting of doors and windows etc
	2nd	Problems
	3rd	3.2Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system
	4th	3.3 Abstract of cost of estimate.
14th	1st	4.0 ADMINISTRATIVE SET-UP OF ENGINEERING ORGANISATIONS
	2nd	4.1Administrative set-up and hierarchy of Engineering Deptt. Duties of responsibilities of Engineers at different positions /levels
	3rd	DOUBT CLEARING CLASSES
	4th	PREVIOUS YEAR QUESTION DISCUSSION
15th	1st	PREVIOUS YEAR QUESTION DISCUSSION
	2nd	PREVIOUS YEAR QUESTION DISCUSSION
	3rd	PREVIOUS YEAR QUESTION DISCUSSION
	4th	PREVIOUS YEAR QUESTION DISCUSSION
16th	1st	CLASS TEST 3, PREVIOUS YEAR QUESTIONS, QUIZ

**LearningResources:**

Sl No.	Author Name	Name of the Book
1	M.Chakraborty. Estimating	Estimating, Costing, specification &Valuation in Civil Engineering
2	B.N.Dutta Estimating &Costing	B.N.Dutta Estimating &Costing
3	Govt. of Odisha Latest Orissa PWD Schedule of Rates & Analysis of rates	Govt. of Odisha Latest Orissa PWD Schedule of Rates & Analysis of rates

*Spanda*  
1.7.24,  
FACULTY SIGNATURE