

GOVERNMENT POLYTECHNIC, BALANGIR

DEPARTMENT OF CIVIL ENGINEERING

LESSON PLAN

SESSION 2023-24

SUBJECT: ESTIMATION AND COST EVALUATION-I	BRANCH: CIVIL ENGINEERING
NAME OF THE FACULTY: YASHOBANTA NAIK	SEMESTER: 3 RD
SEMESTER FROM DATE:	

SL NO.	CHAPTER	HOURS	LECTURE NO.	TOPIC TO BE COVERED
1	CHAPTER 01	02		INTRODUCTION
			1	Types of estimates – Plinth area, floor area / carpet area
			2	Units and modes of measurements as per IS 1200, Accuracy of measurement for different item of work
2	CHAPTER 02	30		Quantity Estimate of Building
			1	Short wall long wall method
			2	Short wall long wall method
			3	Short wall long wall method
			4	centre line method
			5	centre line method
			6	centre line method
			7	deductions in masonry
			8	deductions in masonry
			9	deductions in masonry
			10	plastering, white washing
			12	plastering, white washing
			13	plastering, white washing
			15	painting
			16	painting
			17	painting
			18	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
			19	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
			20	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.

			21	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
			22	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
			23	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
			24	Detailed estimate of single storied flat roof building with shallow foundation
			25	Detailed estimate of single storied flat roof building with shallow foundation
			26	Detailed estimate of single storied flat roof building with shallow foundation
			27	RCC roof slab with leak proof treatment over it including staircase and mumty room
			28	RCC roof slab with leak proof treatment over it including staircase and mumty room
			29	RCC roof slab with leak proof treatment over it including staircase and mumty room
			30	RCC roof slab with leak proof treatment over it including staircase and mumty room
3	CHAPTER 03	22		Analysis of Rates and Valuation
			1	Analysis of rates for cement concrete
			2	Analysis of rates for cement concrete
			3	brick masonry in Cement Mortar
			4	brick masonry in Cement Mortar
			5	laterite stone masonry in Cement Mortar
			6	laterite stone masonry in Cement Mortar
			7	cement plaster white washing
			8	Artificial Stone flooring
			9	Artificial Stone flooring
			10	Tile flooring, concrete flooring
			11	Tile flooring, concrete flooring
			12	R.C.C. with centering and shuttering
			13	R.C.C. with centering and shuttering
			14	reinforcing steel
			15	reinforcing steel
			16	Painting of doors and windows etc. as per OPWD.

			17	Painting of doors and windows etc. as per OPWD.
			18	system (Concept of C.P.W.D./Railways provisions)
			19	Abstract of cost of estimate.
			20	Valuation- Value and cost, scrap value, salvage value
			21	assessed value, sinking fund,
			22	depreciation and obsolesce, methods of valuation.
4	CHAPTER 04	04		Administrative Set-Up Of Engineering Organisations
			1	Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc.
			2	Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc.
			3	Duties and responsibilities of Engineers at different positions /levels.
			4	Duties and responsibilities of Engineers at different positions /levels.