



GOVT. POLYTECHNIC KORAPUT

ACADEMIC SESSION 2020-2021

SEMESTER- 3rd

BRANCH - CIVIL ENGINEERING

SUBJECT – ESTIMATION AND COST EVALUATION

FACULTY NAME – SUCHITRA LENKA

Week No	Topic to be covered
1	Introduction 1.1 Types of estimates – Plinth area, floor area / carpet area 1.2 Units and modes of measurements as per IS 1200
2	1.3 Accuracy of measurement for different item of work
3	Quantity Estimate of Building 2.1 Short wall long wall method and centre line method, deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
4	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 mummy room.
5	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, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD.
6	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)
7	3.3 Abstract of cost of estimate
8	3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.
9	Administrative Set-Up of Engineering Organisations:
10	Administrative set-up and hierarchy of Engineering department
11	Engineering department in State Govt./Central Govt./PSUs/Private Sectors

12	Duties and responsibilities of Engineers at different positions /levels.
13	Explanations of Drawing
14	Culvert Drawing & estimating
15	Revision of concepts