

ACADEMIC SESSION: WINTER-2022

Discipline :civil engg.	Semester: 3rd	Name of the Teaching Faculty : subhasmita behera
Subject: Estimation and cost evaluation-I	No. of Days / Week class allotted: 5	Semester Duration: 15/09/2022 to 22/12/2022 No. of Weeks : 15
Week	Class day	Theory/Practical Topics:
1 st	1 st	Types of estimates – Plinth area, floor area / carpet area
	2 nd	Units and modes of measurements as per IS 1200
	3 rd	Accuracy of measurement for different item of work
	4 th	Short wall long wall method
2 nd	1 st	centre line method
	2 nd	problems
	3 rd	deductions in masonry
	4 th	problems
3 rd	1 st	Deductions in plastering.
	2 nd	problems
	3 rd	Deductions in white washing
	4 th	problems
4 th	1 st	Durga puja holiday
	2 nd	
	3 rd	
	4 th	
5 th	1 st	Deductions in painting
	2 nd	problems
	3 rd	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc
	4 th	problems
6 th	1 st	Detailed estimate of single storied flat roof building with shallow foundation.
	2 nd	problems
	3 rd	problems
	4 th	RCC roof slab with leak proof treatment over it including staircase and mumty room
7 th	1 st	problems
	2 nd	Class test
	3 rd	Analysis of rates for cement concrete
	4 th	Problems
8 th	1 st	problems
	2 nd	brick masonry in Cement Mortar
	3 rd	Problems
	4 th	laterite stone masonry in Cement Mortar

9 th	1 st	Problems
	2 nd	cement plaster and white washing.
	3 rd	problems
	4 th	Artificial Stone flooring
10 th	1 st	Problems
	2 nd	Tile flooring
	3 rd	Problems
	4 th	concrete flooring
11 th	1 st	Problems
	2 nd	R.C.C. with centering and shuttering, reinforcing steel
	3 rd	problems
	4 th	Painting of doors and windows etc. as per OPWD
12 th	1 st	problems
	2 nd	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)
	3 rd	Problems
	4 th	Abstract of cost of estimate.
13 th	1 st	Valuation- Value and cost, scrap value
	2 nd	salvage value, assessed value, sinking fund
	3 rd	depreciation and obsolesce, methods of valuation
	4 th	Problems
14 th	1 st	Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc
	2 nd	Duties and responsibilities of Engineers at different positions /levels.
	3 rd	Class test
	4 th	Class test question discussion
15 th	1 st	Doubt clearing
	2 nd	Previous semester question paper discussion
	3 rd	Previous semester question paper discussion
	4 th	Previous semester question paper discussion