

IDEAL SCHOOL OF ENGINEERING, RETANG-752054

DISCIPLINE: CIVIL ENGINEERING	SEMESTER: 3RD SEM	NAME OF THE TEACHING FACULTY: ER. SUPRIYA SAHOO
SUBJECT: ESTIMATING AND COST EVALUATION-I (TH-4)	No of Days/Per week class allotted: 4 Class P/W(60)	SEMESTER FROM DATE: 15/09/2022 TO DATE: 22/12/2022 NO. OF WEEKS: 15
WEEK	CLASS DAY	THEORY TOPICS PART-A (BUILDING MATERIAL)
1 st	1 st	Introduction :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	Quantity Estimate of Building : Short wall long wall method
2 nd	1 st	Quantity Estimate of : centre line method
	2 nd	Quantity calculation of earthwork excavation
	3 rd	Quantity calculation of Lime concrete in foundation
	4 th	Quantity calculation of Brickwork in foundation and plinth
3 rd	1 st	Quantity calculation of brickwork in superstructure
	2 nd	Doubt clear Class about quantity calculation of single room building.
	3 rd	Quantity calculation of double room building.
	4 th	Quantity calculation of earthwork excavation
4 th	1 st	Quantity calculation of Lime concrete in foundation
	2 nd	Quantity calculation of Brickwork in foundation and plinth
	3 rd	Quantity calculation of DPC (Damp Proofing Course)
	4 th	Quantity calculation of deductions in masonry, plastering
5 th	1 st	Doubt clear Class about quantity calculation.
	2 nd	Quantity calculation of white washing in double room.
	3 rd	Quantity calculation of painting in double room
	4 th	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.

6 th	1 st	Revision of last class about quantity calculation,.
	2 nd	Detailed estimate of single storied flat roof building with shallow foundation
	3 rd	RCC roof slab with leak proof treatment over it including staircase and mumty room.
	4 th	Revision of last class about quantity calculation
7 th	1 st	Numeric problem solve double room building with verandah
	2 nd	Numeric problem solve double room building with verandah(earthwork excavation)
	3 rd	Numeric problem solve double room building with verandah(lime concrete in foundation)
	4 th	Numeric problem solve double room building with verandah(brickwork in foundation)
8 th	1 st	Numeric problem solve double room building with verandah(DPC)
	2 nd	Numeric problem solve double room building with verandah(Brickwork in foundation)
	3 rd	Numeric problem solve double room building with verandah
	4 th	Numeric problem solve double room building with verandah
9 th	1 st	Numeric problem solve double room building with verandah
	2 nd	Analysis of rates for cement concrete
	3 rd	Analysis of rates for brick masonry in Cement Mortar
	4 th	late rite stone masonry in Cement Mortar
10 th	1 st	Analysis of rates cement plaster
	2 nd	Analysis of rates white washing
	3 rd	Analysis of rate Artificial Stone flooring
	4 th	Tile flooring And Rate Analysis
11 th	1 st	concrete flooring And Analysis
	2 nd	R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc.
	3 rd	Calculation of lead And Revision of last class .

	4 th	Calculation of lift, conveyance charges
12 th	1 st	royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions)
	2 nd	Abstract of cost of estimate.
	3 rd	Valuation- Value and cost
	4 th	scrap value, salvage value
13 th	1 st	assessed value
	2 nd	sinking fund, depreciation and obsolesce
	3 rd	methods of valuation.
	4 th	Numeric problem solve.
14 th	1 st	Numeric problem solve.
	2 nd	Numeric problem solve.
	3 rd	Numeric problem solve.
	4 th	Numeric problem solve.
15 th	1 st	Administrative set-up and hierarchy of Engineering department in State
	2 nd	Duties and responsibilities of JEE
	3 rd	Duties and responsibilities of Assistant engineer
	4 th	Administrative Set-Up of Engineering Organizations.