UTKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

DISCIPLINE: Civil Engineering	SEMESTER: 3rd Sem	NAME OF THE TEACHING FACULTY: ER.Tejaswini Das	
SUBJECT: Estimating And Cost Evaluation-I	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)**	**REMARKS**
1st	1st	**Introduction :**Types of estimates – Plinth area, floor area / carpet area	Date	Dean/Principal
	2nd	Units and modes of measurements as per IS 1200		
	3rd	Accuracy of measurement for different item of work		
	4th	**Quantity Estimate of Building :** Short wall long wall method		
2nd	1st	Quantity Estimate of : centre line method		
	2nd	Quantity calculation of earthwork excavation		
	3rd	Quantity calculation of Lime concrete in foundation		
	4th	Quantity calculation of Brickwork in foundation and plinth		
3rd	1st	Quantity calculation of brickwork in superstructure		
	2nd	Doubt clear Class about quantity calculation of single room building.		
	3rd	Quantity calculation of double room building.		

	4th	Quantity calculation of earthwork excavation		
4th	1st	Quantity calculation of Lime concrete in foundation		
	2nd	Quantity calculation of Brickwork in foundation and plinth		
	3rd	Quantity calculation of DPC (Damp Proofing Course)		
	4th	Quantity calculation of deductions in masonry, plastering		
5th	1st	Doubt clear Class about quantity calculation.		
	2nd	Quantity calculation of white washing in double room.		
	3rd	Quantity calculation of painting in double room		
	4th	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.		
6th	1st	Revision of last class about quantity calculation,.		
	2nd	Detailed estimate of single storied flat roof building with shallow foundation		
	3rd	RCC roof slab with leak proof treatment over it including staircase and mumty room.		
	4th	Revision of last class about quantity calculation,.		
	1st	Numeric problem solve double room building with verandah		

7th	2nd	Numeric problem solve double room building with verandah(earthwork excavation)		
	3rd	Numeric problem solve double room building with verandah(lime concrete in foundation)		
	4th	Numeric problem solve double room building with verandah(brickwork in foundation)		
8th	1st	Numeric problem solve double room building with verandah(DPC)		
	2nd	Numeric problem solve double room building with verandah(Brickwork in foundation)		
	3rd	Numeric problem solve double room building with verandah		
	4th	Numeric problem solve double room building with verandah		
9th	1st	Numeric problem solve double room building with verandah		
	2nd	Analysis of rates for cement concrete		
	3rd	Analysis of rates for brick masonry in Cement Mortar		
	4th	late rite stone masonry in Cement Mortar		
10th	1st	Analysis of rates cement plaster		
	2nd	Analysis of rates white washing		
	3rd	Analysis of rate Artificial Stone flooring		
	4th	Tile flooring And Rate Analysis		
	1st	concrete flooring And Analysis		

11th	2nd	R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc.		
	3rd	Calculation of lead And Revision of last class .		
	4th	Calculation of lift, conveyance charges		
12th	1st	royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions)		
	2nd	Abstract of cost of estimate.		
	3rd	Valuation- Value and cost		
	4th	scrap value, salvage value		
13th	1st	assessed value		
	2nd	sinking fund, depreciation and obsolesce		
	3rd	methods of valuation.		
	4th	Numeric problem solve.		
14th	1st	Numeric problem solve.		
	2nd	Numeric problem solve.		
	3rd	Numeric problem solve.		
	4th	Numeric problem solve.		
15th	1st	Administrative set-up and hierarchy of Engineering department in State		
	2nd	Duties and responsibilities of JEE		
	3rd	Duties and responsibilities of Assistant engineer		
	4th	Administrative Set-Up of Engineering Organizations.		

Tejaswini Das
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HOD

Chittaranjan Parida
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DEAN

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PRINCIPAL