KIIT POLYTECHNIC

Department of Civil Engineering

LESSON PLAN

Session :: Winter -2022

Course Type :: Theory

Semester/Branch :: 3rd Semester, civil Engineering

Subject (with code) :: Estimation & cost evaluation-1 (Theory-4)

Contact hours/week :: 4 hours

Name of Faculty :: Ananyashree moharana

SL. No.	CLASS ID	Course Content	Mode of Delivery	EXHIBIT/ REFERENCE
1	1	Types of estimates – Plinth area, floor area / carpet area	Lecture	Study material
2	2	Units and modes of measurements as per IS 1200. Accuracy of measurement for different item of work	Lecture	Study material
3	3	Quantity Estimate of Building Short wall long wall method and centre line method.	Lecture	Study material
4	4	Single wall detail drawing discussion Estimation of single wall	Student presentation	Study material
5	5	deductions in masonry, plastering, white washing, painting etc.,	Lecture	Study material
6	6	Model making by the students	Video content	https://youtu.be/otRqG lmCO3I
7	7	Double room detail drawing discussion and analysis	Video content	https://youtu.be/4x4oR RwJb3s
8	8	Double room estimation. E/W excavation	Video content	https://youtu.be/4x4oR RwJb3s
9	9	PCC,b/w in foundation quatity calculation.	Lecture	Study material

		B/W in		
		superstructure, plastering		
		quantity calculation		
10	10	Deduction for B/w and	Lecture	Study material
10	10	plastering calculation.	Lecture	Study material
11	11	Construction site visit		
	12			
12	1	CLASS TEST	Т ,	Gr. 1
13	13	Introduction to multi room	Lecture	Study material
		Detail drawing elaboration		
		of multi room or single		
1.4	1.4	stored building	т ,	G. 1
14	14	Estimation of E/W	Lecture	Study material
1.		excavation	-	~ 1
15	15	Lime concrete in	Lecture	Study material
		foundation,b/w in		
		foundation.		
16	16	Dpc,b/w in superstructure	Student presentation	Study material
		quantity calculation.		
		Plastering of single room	Lecture	Study material
17	17	building		
		Deduction for plastering.		
18	18		Guest lecture	Study material
		Detailed estimate of single		
		storied flat roof building		
		with shallow foundation		
19	19	Quantity calculation of the	Lecture	Study material
		items		·
20	20	CLASS TEST		
21	21	Rate analysis of the	Lecture	Study material
		estimated quantity		_
22	22	RCC roof slab with leak	Video content	https://youtu.be/3kx5I
		proof treatment over it		U3Od8A
		including staircase		
23	23	Introduction to mumty	Lecture	Study material
		room		, and the second
24	24	Introduction to rate	Lecture	Study material
		analysis.		
25	25		Lecture	Study material
		Analysis of rates for		
		cement concrete		
26	26	Rate analysis for brick	Lecture	Study material
		masonry in Cement Mortar		,
		,		
27	27		Lecture	Study material
		laterite stone masonry in		
		Cement Mortar		
	1	1		l .

28	28	Rate analysis for cement plaster,	Lecture	Study material
29	29	white washing, Artificial Stone flooring	Lecture	Study material
30	30	Rate analysis for Tile flooring	Lecture	Study material
31	31	Cost calculation for concrete flooring,	Lecture	Study material
32	32	Rate analysis for RCC with centring and shuttering	Lecture	Study material
33	33	Rate analysis for reinforcing steel	Lecture	Study material
34	34	Rate analysis for Painting of doors and windows etc. as per OPWD.	Lecture	Study material
35	35	Calculation of lead, lift,	Lecture	Study material
36	36	CLASS TEST		
37	37	conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions	Guest lecture	Study material
38	38	Abstract of cost of estimate.	Lecture	Study material
39	39	Valuation- Value and cost,	Lecture	Study material
40	40	scrap value, salvage value,	Lecture	Study material
41	41	assessed value, sinking fund	Lecture	Study material
42	42	depreciation and obsolesce, methods of valuation	Lecture	Study material
43	43	Administrative Set-Up of Engineering Organisations: Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc	Lecture	Nptel reference

44	44	Duties and responsibilities of Engineers at different	Lecture	Study material
		positions /levels.		
		discussion		
45	45	Duties and responsibilities of chief engineer.	Lecture	Study material
46	46	Duties of Assistant engineer.	Lecture	Study material
47	47	Duties of junior engineer.	Lecture	Study material
48	48	CLASS TEST		

Signature of Concern Teacher