

## LESSON PLAN

<b>Discipline:</b> Civil Engg.	<b>Semester:</b> Third (3 <sup>rd</sup> )	<b>Name of the Faculty:</b> Er Sibananda Pradhan
<b>Subject:</b> Estimation and Cost Evaluation-I	<b>No. of days/week class allotted:</b> Five (5)	<b>Semester from Date:</b> 15.09.22 <b>to Date:</b> 22.12.22 <b>No. of Weeks:</b> 16
<b>WEEK</b>	<b>CLASS DAY</b>	<b>THEORY TOPICS</b>
1 <sup>st</sup>	1 <sup>st</sup>	Types of estimates – Plinth area Floor area / carpet area
	2 <sup>nd</sup>	Units and modes of measurements as per IS 1200
	3 <sup>rd</sup>	Accuracy of measurement for different item of work
	4 <sup>th</sup>	Continue
	5 <sup>th</sup>	<b>Review Class</b>
2 <sup>nd</sup>	1 <sup>st</sup>	Short wall long wall method and centre line method,
	2 <sup>nd</sup>	deductions in masonry, plastering, white washing, painting etc.,
	3 <sup>rd</sup>	multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.
	4 <sup>th</sup>	multiplying factor (paint coefficients) for painting of windows
	5 <sup>th</sup>	Continue
3 <sup>rd</sup>	1 <sup>st</sup>	multiplying factor (paint coefficients) for (paneled/glazed), grills etc.
	2 <sup>nd</sup>	multiplying factor (paint coefficients) for grills etc.
	3 <sup>rd</sup>	Problem analysis
	4 <sup>th</sup>	Problem analysis
	5 <sup>th</sup>	Problem analysis

4 <sup>th</sup>	1 <sup>st</sup>	Problem analysis
	2 <sup>nd</sup>	Problem analysis
	3 <sup>rd</sup>	<b>Monthly test</b>
	4 <sup>th</sup>	Detailed estimate of single storied flat roof building
	5 <sup>th</sup>	Continue
5 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of single storied flat roof building with shallow foundation
	2 <sup>nd</sup>	Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab
	3 <sup>rd</sup>	Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over
	4 <sup>th</sup>	Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including staircase
	5 <sup>th</sup>	Continue
6 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of single storied and mumty room.
	2 <sup>nd</sup>	Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including staircase and mumty room.
	3 <sup>rd</sup>	Problem analysis
	4 <sup>th</sup>	Problem analysis
	5 <sup>th</sup>	Problem analysis
7 <sup>th</sup>	1 <sup>st</sup>	Problem analysis
	2 <sup>nd</sup>	Problem analysis
	3 <sup>rd</sup>	Problem analysis
	4 <sup>th</sup>	Problem analysis

	5 <sup>th</sup>	Problem analysis
8 <sup>th</sup>	1 <sup>st</sup>	Problem analysis
	2 <sup>nd</sup>	<b>Review class</b>
	3 <sup>rd</sup>	<b>Monthly test</b>
	4 <sup>th</sup>	Analysis of rates for cement concrete, brick masonry in Cement Mortar as per OPWD
	5 <sup>th</sup>	Continue
9 <sup>th</sup>	1 <sup>st</sup>	Analysis of rates for cement plaster, white washing, as per OPWD
	2 <sup>nd</sup>	Analysis of rates for Artificial Stone flooring, tile flooring as per OPWD
	3 <sup>rd</sup>	Analysis of rates for concrete flooring, R.C.C. with centering as per OPWD
	4 <sup>th</sup>	Analysis of rates concrete flooring, R.C.C. with shuttering, as per OPWD
	5 <sup>th</sup>	Continue
10 <sup>th</sup>	1 <sup>st</sup>	Analysis of rates for R.C.C. with, reinforcing steel, as per OPWD
	2 <sup>nd</sup>	Analysis of rates Painting of doors and windows as per OPWD
	3 <sup>rd</sup>	Analysis of rates
	4 <sup>th</sup>	Calculation of lead, lift, As per Orissa PWD system (concept of C.P.W.D /railways provision)
	5 <sup>th</sup>	Continue
11 <sup>th</sup>	1 <sup>st</sup>	Calculation of conveyance charges,, etc. As per Orissa PWD system (concept of C.P.W.D /railways provision)

	2 <sup>nd</sup>	Calculation of, royalty of materials, etc. As per Orissa PWD system (concept of C.P.W.D /railways provision)
	3 <sup>rd</sup>	Analysis of rates
	4 <sup>th</sup>	Abstract of cost of estimate
	5 <sup>th</sup>	Continue
12 <sup>th</sup>	1 <sup>st</sup>	Analysis of rates
	2 <sup>nd</sup>	Analysis of rates
	3 <sup>rd</sup>	<b>Monthly test</b>
	4 <sup>th</sup>	Valuation – Value & cost,
	5 <sup>th</sup>	Methods of valuation
13 <sup>th</sup>	1 <sup>st</sup>	Valuation, scrap value, salvage value,
	2 <sup>nd</sup>	Valuation –assessed value, sinking fund,
	3 <sup>rd</sup>	Valuation – Value & cost, fund, depreciation & obsolesce,
	4 <sup>th</sup>	Valuation – Value & cost, methods of valuation
	5 <sup>th</sup>	Continue
14 <sup>th</sup>	1 <sup>st</sup>	Problem analysis
	2 <sup>nd</sup>	Problem analysis
	3 <sup>rd</sup>	<b>Review class</b>
	4 <sup>th</sup>	Administrative set-up and hierarchy of Engineering Dept in State Govt. /Central Govt. etc.
	5 <sup>th</sup>	Continue
15 <sup>th</sup>	1 <sup>st</sup>	Administrative set-up and hierarchy of Engineering Dept in PSUs / Private sector etc.

2 <sup>nd</sup>	Duties of responsibilities of Engineers at different positions /levels
3 <sup>rd</sup>	<b>Review class</b>
4 <sup>th</sup>	<b>Monthly test</b>
5 <sup>th</sup>	<b>Review class</b>