

# LESSON PLAN OF 3<sup>RD</sup> SEMESTER CIVIL ENGINEERING (2023-24)

Discipline :- CIVIL	Semester:-3 <sup>RD</sup>	Name of the Teaching Faculty SANDIP SAMANTARAY	
Subject:- Estimating and cost evaluation-I	No of Days/per Week Class Allotted :-04	Semester From:-	<u>1<sup>st</sup> August,2023</u> To:- <u>30<sup>th</sup> November, 2023</u>
		No of Weeks:- <b>18</b>	
Week	Class Day	<b>Theory/ Practical Topics</b>	
1 <sup>st</sup>	1 <sup>st</sup>	Introduction Types of estimates – Plinth area, floor area / carpet area	
	2 <sup>nd</sup>	Units and modes of measurements as per IS 1200 Accuracy of measurement for different item of work	
	3 <sup>rd</sup>	Quantity estimate of building Short wall long wall method and centre line method	
	4 <sup>th</sup>	Problems	
2 <sup>nd</sup>	1 <sup>st</sup>	Deductions in masonry,	
	2 <sup>nd</sup>	Problems	
	3 <sup>rd</sup>	Plastering,	
	4 <sup>th</sup>	Problems	
3 <sup>rd</sup>	1 <sup>st</sup>	white washing,	
	2 <sup>nd</sup>	Problems	
	3 <sup>rd</sup>	painting etc., multiplying factor	
	4 <sup>th</sup>	Problems	
4 <sup>th</sup>	1 <sup>st</sup>	Painting	
	2 <sup>nd</sup>	Painting of doors and windows (paneled/glazed), grills etc. as per OPWD scheduled of rates.	
	3 <sup>rd</sup>	Problems	
	4 <sup>th</sup>	Problems	
5 <sup>th</sup>	1 <sup>st</sup>	Problems	
	2 <sup>nd</sup>	Problems	
	3 <sup>rd</sup>	Detailed estimate of single storied flat roof building with shallow foundation and	
	4 <sup>th</sup>	Problems	
6 <sup>th</sup>	1 <sup>st</sup>	Problems	
	2 <sup>nd</sup>	RCC roof slab with leak proof treatment over it including	
	3 <sup>rd</sup>	Problems	
	4 <sup>th</sup>	Problems	
7 <sup>th</sup>	1 <sup>st</sup>	Detailed estimate of a simple inclined roof building with gabled / hipped roof	
	2 <sup>nd</sup>	Problems	
	3 <sup>rd</sup>	Problems	
	4 <sup>th</sup>	A.C. sheet / G.C.I. sheet roofing.	
8 <sup>th</sup>	1 <sup>st</sup>	Problems	
	2 <sup>nd</sup>	Problems	
	3 <sup>rd</sup>	Problems	
	4 <sup>th</sup>	Analysis of rates as per opwd specifications / standards Analysis of rates for cement concrete	
9 <sup>th</sup>	1 <sup>st</sup>	Problems	
	2 <sup>nd</sup>	Problems	
	3 <sup>rd</sup>	Problems	
	4 <sup>th</sup>	brick masonry in Cement Mortar	
10 <sup>th</sup>	1 <sup>st</sup>	Problems	

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	2 <sup>nd</sup>	Laterite stone masonry in Cement Mortar ,
	3 <sup>rd</sup>	Problems
	4 <sup>th</sup>	Problems
11 <sup>th</sup>	1 <sup>st</sup>	cement plaster
	2 <sup>nd</sup>	Problems
	3 <sup>rd</sup>	white washing ,Artificial Stone flooring,
	4 <sup>th</sup>	Problems
12 <sup>th</sup>	1 <sup>st</sup>	concrete flooring,
	2 <sup>nd</sup>	Problems
	3 <sup>rd</sup>	R.C.C. with centering and shuttering, reinforcing steel,
	4 <sup>th</sup>	Problems
13 <sup>th</sup>	1 <sup>st</sup>	Painting of doors and windows etc
	2 <sup>nd</sup>	Problems
	3 <sup>rd</sup>	Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system
	4 <sup>th</sup>	Abstract of cost of estimate.
14 <sup>th</sup>	1 <sup>st</sup>	Administrative set-up of engineering organisations
	2 <sup>nd</sup>	Administrative set-up and hierarchy of Engineering Deptt. Duties of responsibilities of Engineers at different positions /levels
	3 <sup>rd</sup>	Doubt clearing classes
	4 <sup>th</sup>	PREVIOUS YEAR QUESTION DISCUSSION
15 <sup>th</sup>	1 <sup>st</sup>	PREVIOUS YEAR QUESTION DISCUSSION
	2 <sup>nd</sup>	PREVIOUS YEAR QUESTION DISCUSSION
	3 <sup>rd</sup>	PREVIOUS YEAR QUESTION DISCUSSION
	4 <sup>th</sup>	PREVIOUS YEAR QUESTION DISCUSSION
16 <sup>th</sup>	1 <sup>st</sup>	PREVIOUS YEAR QUESTION DISCUSSION
	2 <sup>nd</sup>	PREVIOUS YEAR QUESTION DISCUSSION
	3 <sup>rd</sup>	PREVIOUS YEAR QUESTION DISCUSSION
	4 <sup>th</sup>	PREVIOUS YEAR QUESTION DISCUSSION
17 <sup>th</sup>	1 <sup>st</sup>	REVISION
	2 <sup>nd</sup>	REVISION
	3 <sup>rd</sup>	REVISION
	4 <sup>th</sup>	REVISION
18 <sup>th</sup>	1 <sup>st</sup>	REVISION
	2 <sup>nd</sup>	REVISION
	3 <sup>rd</sup>	REVISION
	4 <sup>th</sup>	REVISION