

Subject: Estimation &Cost Evaluation- I Th.4	No. of days/per week Class Allotted: 4	Name of the teaching faculty: Prakash Chandra Murmu
Week	Class/Day	Theory Topics
1 <sup>st</sup> ,	1 <sup>st</sup>	<b>Introduction</b> : 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>	<b>Quantity Estimate of Building</b> : Basics of Short wall - long wall method
	4 <sup>th</sup>	Estimate the Single Room Building by Short wall - long wall method.
2 <sup>nd</sup>	1 <sup>st</sup>	Estimate the Single Room Building by Short wall - long wall method.
	2 <sup>nd</sup>	Estimate the Single Room Building by Short wall - long wall method.
	3 <sup>rd</sup>	Estimate the Single Room Building by Short wall - long wall method.
	4 <sup>th</sup>	Basics of Centre Line Method
3 <sup>rd</sup>	1 <sup>st</sup>	Estimate the Single Room Building by Centre Line Method.
	2 <sup>nd</sup>	Estimate the Single Room Building by Centre Line Method.
	3 <sup>rd</sup>	Estimate the Single Room Building by Centre Line Method.
	4 <sup>th</sup>	Estimate the Double Room Building by Short wall - long wall method.
4 <sup>th</sup>	1 <sup>st</sup>	Estimate the Double Room Building by Short wall - long wall method.
	2 <sup>nd</sup>	Estimate the Double Room Building by Short wall - long wall method.
	3 <sup>rd</sup>	Estimate the Double Room Building by Short wall - long wall method.
	4 <sup>th</sup>	Estimate the Double Room Building by Short wall - long wall method.
5 <sup>th</sup>	1 <sup>st</sup>	Estimate the Double Room Building by Centre Line Method.
	2 <sup>nd</sup>	Estimate the Double Room Building by Centre Line Method.
	3 <sup>rd</sup>	Estimate the Double Room Building by Centre Line Method.
	4 <sup>th</sup>	Estimate the Double Room Building by Centre Line Method.
6 <sup>th</sup>	1 <sup>st</sup>	Estimate the Double Room Building by 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>	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.
7 <sup>th</sup>	1 <sup>st</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.
	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>	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.
	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 and mumty room.
8 <sup>th</sup>	1 <sup>st</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.
	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>	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.
	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 and mumty room.
9 <sup>th</sup>	1 <sup>st</sup>	<b>Analysis of Rates and Valuation:</b> Analysis of rates for cement concrete (PCC) as per OPWD
	2 <sup>nd</sup>	Analysis of rates for cement concrete (PCC) as per OPWD
	3 <sup>rd</sup>	Analysis of rates for cement concrete (PCC) as per OPWD
	4 <sup>th</sup>	Analysis of rates for cement concrete (RCC) with centering and shuttering, reinforcing steel as per OPWD
10 <sup>th</sup>	1 <sup>st</sup>	Analysis of rates for cement concrete (RCC) with centering and shuttering, reinforcing steel.
	2 <sup>nd</sup>	Analysis of rates for cement concrete (RCC) with centering and shuttering, reinforcing steel as per OPWD
	3 <sup>rd</sup>	Analysis of rates for brick masonry in Cement Mortar as per OPWD
	4 <sup>th</sup>	Analysis of rates for brick masonry in Cement Mortar as per OPWD
11 <sup>th</sup>	1 <sup>st</sup>	Analysis of rates for brick masonry in Cement Mortar as

		per OPWD
	2 <sup>nd</sup>	Analysis of rates for Laterite stone masonry in Cement Mortar as per OPWD
	3 <sup>rd</sup>	Analysis of rates for Laterite stone masonry in Cement Mortar as per OPWD
	4 <sup>th</sup>	Analysis of rates for Cement plaster as per OPWD
12 <sup>th</sup>	1 <sup>st</sup>	Analysis of rates for Cement plaster as per OPWD
	2 <sup>nd</sup>	Analysis of rates for white washing as per OPWD
	3 <sup>rd</sup>	Analysis of rates for Artificial Stone flooring as per OPWD
	4 <sup>th</sup>	Analysis of rates for Tile flooring as per OPWD
13 <sup>th</sup>	1 <sup>st</sup>	Analysis of rates for concrete flooring as per OPWD
	2 <sup>nd</sup>	Analysis of rates for Painting of doors and windows etc. as per OPWD
	3 <sup>rd</sup>	Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions)
	4 <sup>th</sup>	Abstract of cost of estimate
14 <sup>th</sup>	1 <sup>st</sup>	<b>Valuation-</b> Value and Cost, Scrap Value, Salvage Value
	2 <sup>nd</sup>	Assessed Value, Sinking Fund, Depreciation and Obsolesce, Methods of Valuation.
	3 <sup>rd</sup>	<b>Administrative Set-Up of Engineering Organisations:</b> Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc.
	4 <sup>th</sup>	Duties and responsibilities of Engineers at different positions /levels.
15 <sup>th</sup>	1 <sup>st</sup>	Duties and responsibilities of Engineers at different positions /levels.
	2 <sup>nd</sup>	Duties and responsibilities of Engineers at different positions /levels.
	3 <sup>rd</sup>	Revision
	4 <sup>th</sup>	Revision
16 <sup>th</sup>	1 <sup>st</sup>	Revision
	2 <sup>nd</sup>	Revision
	3 <sup>rd</sup>	Revision
	4 <sup>th</sup>	Revision
17 <sup>th</sup>	1 <sup>st</sup>	Revision
	2 <sup>nd</sup>	Revision
	3 <sup>rd</sup>	Revision
	4 <sup>th</sup>	Revision