

LESSON PLAN

Name of Faculty : Chetna
Subject : Estimating and Costing
Lesson plan Duration : Aug2025-Nov2025

Discipline : Civil Engineering
Semester : 5th

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Week	Lecture Day	THEORY	Delivery Date of Lecture		Whether the Lesson Plan Followed ?
		TOPIC			Yes / No
		(including Assignments / Seeminar / Group Discussion / Sessional Tests)	Expected	Actual	
1st	1st	UNIT-I 1.1 Introduction to quantity surveying and its importance.			
	2nd	1.2 Duties of quantity surveyor			
	3rd	1.3 Types of estimates			
2nd	1st	1.3.1 Preliminary estimates: - Plinth area estimate and Cubic content estimate			
	2nd	1.3.2 Detailed estimates: - Concept, difference between preliminary and detailed estimate			
	3rd	1.3.3 Stages of preparation – details of measurement and calculation of quantities and abstract			
3rd	1st	UNIT-II 2.1 Measurement ,2.1.1 Units of measurement for various items of work as per BIS: 1200			
	2nd	2.1.2 Rules for measurements			
	3rd	2.1.3 Different methods of taking out quantities – centre line method and long wall and short wall method			
4th	1st	2.2 Analysis of Rates			
	2nd	2.2.1 Steps involved in the analysis of rates. Requirement of material, labour, sundries, contractor's profit and overheads			
	3rd	2.2.2 Analysis of rates for finished items when data regarding labour rates of material and labour is given: a) Earthwork in excavation in hard/ordinary soil and filling			

5th	1st	Analysis of rates for finished items when data regarding labour rates of material and labour is given: b) Concept of lead and lift			
	2nd	Analysis of rates for finished items when data regarding labour rates of material and labour is given: c) RCC in roof slab/beam/lintels/columns,			
	3rd	Analysis of rates for finished items when data regarding labour rates of material and labour is given: d) Brick masonry in cement mortar Cement Plaster, White washing, painting			
6th	1st	Numericals Session			
	2nd	Revision			
	3rd	Doubt Session			
7th	1st	Assignment – 1 / Group discussion / Technical Quiz / Seminar			
	2nd	Doubt Session			
	3rd	Sessional Test - 1			
8th	1st	UNIT-III 3.1 Contractor ship- Meaning of contract			
	2nd	3.2 Essentials of a contract 3.3 Various Conditions of contractors			
	3rd	3.4 Types of contracts, their advantages, dis-advantages and suitability, system of payment			
9th	1st	3.5 Single and two cover-bids; tender, tender forms and documents, tender notice, submission of tender and deposit of earnest money, security deposit, retention money, maintenance period			
	2nd	3.6 Classification and types of contracting firms/construction companies			
	3rd	UNIT-IV 4.1 Introduction to CSR, HSR and calculation of cost based on premium on CSR & HSR			
	1st	4.2 Preparation of Tender Document based on common schedule rates and Haryana schedule rates (CSR & HSR)			

10th	2nd	4.3 Various Condition of contractors			
	3rd	4.4 Exercises on writing detailed specifications of different types of building works from excavation to foundations, superstructure and finishing operation			
11th	1st	Assignment – 2 / Group discussion / Technical Quiz / Seminar			
	2nd	Revision			
	3rd	Sessional Test – 2			
12th	1st	UNIT-V 5.1 Valuation			
	2nd	5.2 Purpose of valuation, principles of valuation			
	3rd	5.3 Definition of various terms related to valuation like depreciation, sinking fund,			
13th	1st	salvage and scrap value, market value,			
	2nd	fair rent, year's purchase etc.			
	3rd	5.4 Methods of valuation (i) replacement cost method (ii) rental return method 5.5 Preparation of comparative statement for item rate contract.			
14th	1st	Methods of valuation (ii) rental return method			
	2nd	5.5 Preparation of comparative statement for item rate contract.			
	3rd	Revision			
15th	1st	Assignment – 3 / Group discussion / Technical Quiz / Seminar			
	2nd	Doubt Session			
	3rd	Sessional Test – 3			