

Lesson Plan

Subject- Estimating Costing and Valuation (Code) - CEPC206

Name of faculty- Soumyashree das, Semester- 4th Class, allotted- 45hr Branch -Civil Engg.

Discipline	Semester	From date:22/12/2025 To date:08/04/2026	Teaching Aid
Subject:	No. of days/ per week: 3p	Theory/ Practical –Topics/Lesson	
Week	Date/Period		
1	22/12/2025 To 07/01/2026	<p>Fundamentals of Estimating and Costing</p> <p>1.1 Estimating and Costing – Meaning, purpose, Administrative approval, Technical Sanction and</p> <p>1.2 Types of methods of estimates – Approximate and Detailed estimate.</p> <p>1.3 Roles and responsibility of Engineers at different positions/levels,Administrative set ups and heirarchy of Engineering Dept. in State Govt./Central Govt./PSUs</p> <p>1.4 Standard formats of Measurement sheet, Abstract sheet,</p> <p>1.5 Modes of measurement and desired accuracy in measurements for different items of work as per IS:1200.</p> <p>1.6 Rules for deduction in different category of work as per IS:1200.</p> <p>1.7 Description / specification of items of building work as per OPWD /DSR./CPWD/Railways</p>	White board&marker
2	12/01/2026 To 11/02/2026	<p>Detailed Estimate</p> <p>2.1 Detailed Estimate- Definition and Purpose, Data required for detailed estimate - Civil cost, GST, Contingencies, Supervision charges, Procedure for preparation of detailed estimate</p> <p>2.2 Long wall and Short wall method, Centre line method.</p> <p>2.3 Bar bending schedule for footing, column, beam, Lintel, chajja and slab elements</p> <p>2.4 Provisions in detailed estimate: contingencies, work charged establishent, percentage charges, water supply and sanitary Charges and electrification charges etc.</p>	White board&marker

		<p>2.5 Prime cost, Provisional sum, Provisional quantities, Bill of quantities, Spot Items or Site items.</p> <p>2.6 Detailed estimate of residential buildings using long wall short wall and centre line method</p>	
3	16/02/2026 To 18/03/2026	<p>Estimate for Civil Engineering Works</p> <p>3.1 Earthwork - Quantities for roads, Embankment and canal by – Mid sectional area method, mean sectional area method, Prismoidal and trapezoidal formula method.</p> <p>3.2 Detailed estimate for septic tank,</p> <p>3.3 Estimate of RCC culvert , drainage syphon and vertical fall</p> <p>3.4 Estimate of Bituminous road</p>	White board&marker
4	18/03/2026 To 08/04/2026	<p>Rate Analysis</p> <p>4.1 Rate Analysis: Definition, purpose and importance.</p> <p>4.2 Lead (Standard and Extra), lift, overhead charges, water charges and contractors' profit, procedure for rate analysis.</p> <p>4.3 Task work- Definition, types. Task work of different skilled labour for different items.</p> <p>4.4 Categories of labours, their daily wages, types and number of labours for different items of work.</p> <p>4.5 Transportation charges of materials - Lead and Lift, Hire charges of machineries and equipment.</p> <p>4.6 Preparing rate analysis of different items of work pertaining to buildings and roads. (Different items of work like PCC, Plastering, Flooring, and Brick work)</p>	White board&marker

T. Gurur

Signature of HOD

Souryashree Das
Signature of faculty