

LESSON PLAN (SUMMER-2026)

VENUS GROUP OF EDUCATIONAL & RESEARCH INSTITUTE,BAHANAGA,BALASORE-756042

Discipline: Civil Engg.	Semester: 4th	Name of the Teaching Faculty: Er. Mousumi Pandia.
Subject: Estimating, Costing & Evaluation	No. of days per week class allotted: 5 nos	Semester From date :22/12/2025 To 18/04/2026
Week No.	Class Day	Theory/Practical Topic
1st	1st	Estimating and Costing – Meaning, purpose.
	2nd	Estimating and Costing – Administrative approval, Technical Sanction.
	3rd	Types of methods of estimates-pproximate.
	4th	Types of methods of estimates – Detailed estimate.
	5th	Roles and responsibility of Engineers at different positions/levels.
2nd	1st	Administrative set ups and heirarchy of Engineering Dept. in State Govt./Central Govt./PSUs.
	2nd	Standard formats of Measurement sheet.
	3rd	Standard formats of Abstract .
	4th	Modes of measurement and desired accuracy in measurements for different items of work as per IS:1200.
	5th	Modes of measurement and desired accuracy in measurements for different items of work as per IS:1200.
3rd	1st	Rules for deduction in different category of work as per IS:1200.
	2nd	Rules for deduction in different category of work as per IS:1200.
	3rd	Description / specification of items of building work as per OPWD .
	4th	Description / specification of items of building work as per DSR.
	5th	Description / specification of items of building work as per CPWD.
4th	1st	Description / specification of items of building work as per Railways.
	2nd	Long wall and Short wall method.
	3rd	Centre line method.
	4th	Bar bending schedule for footing, column, beam, Lintel.
	5th	Bar bending schedule for chajja and slabelements.
	1st	Provisions in detailed estimate: contingencies, work charged establishent, percentage charges, water supply.
5th		Sanitary Charges and electrification charges etc.
	2nd	Provisions in detailed estimate: contingencies, work charged establishent, percentage charges, water supply and sanitary Charges and electrification charges etc.
	3rd	Prime cost, Provisional sum, Provisional quantities.
	4th	Bill of quantities, Spot items or Site items.
	5th	Detailed estimate of residential buildings using long wall short wall.
6th	1st	Detailed estimate of residential buildings using centre line method.

6th	2nd	Earthwork - Quantities for roads, Embankment and canal by – Mid sectional area method.
	3rd	Earthwork - mean sectional area method.
	4th	Earthwork-Prismoidal and trapezoidal formula method.
	5th	Detailed estimate for septic tank.
7th	1st	Estimate of RCC culvert.
	2nd	Estimate of drainage syphon and vertical fall.
	3rd	Estimate of vertical fall.
	4th	Estimate of Bituminous Road.
	5th	Rate Analysis: Definition, purpose and importance.
8th	1st	Lead (Standard and Extra), lift, overhead charges.
	2nd	Water charges and contractors' profit, procedure for rate analysis.
	3rd	Task work- Definition, types.
	4th	Task work of different skilled labour for different items.
	5th	Categories of labours, their daily wages.
9th	1st	Types and number of labours for different items of work.
	2nd	Categories of labours, their daily wages.
	3rd	Transportation charges of materials - Lead and Lift.
	4th	Hire charges of machineries and equipment.
	5th	Preparing rate analysis of different items of work pertaining to buildings and roads.
10th	1st	Detailed estimate for septic tank.
	2nd	Rate Analysis: Definition and purpose.
	3rd	Rate Analysis: importance.
	3rd	Categories of labours, their daily wages, types and number of labours.
	4th	Different items of work.
11th	1st	Long wall and Short wall method.
	2nd	Centre line method.
	3rd	Bar bending schedule for footing.
	4th	Bar bending schedule for column.
	5th	Bar bending for Lintel.
12th	1st	Bar bending for chajja.
	2nd	Bar bending schedule for slab .
	3rd	Standard formats of Measurement sheet.
	4th	Standard formats of Abstract sheet.
	5th	Centre line method.
13th	1st	Long wall method.
	2nd	Short wall method.
	3rd	Long wall method.Revision.
	4th	Short wall method Revision.
	5th	Centre line method Revision.