

Year & Sem	Course Code: CE3501	Course Name: Estimation & Costing	No. of Credits: 4	L	T&PS	P
				2	2	0

UNIT I: Introduction and Building Estimation
Procedure of Estimation: - Objectives -Process components - Basic Principles of measurement - Units of measurements.
Method of Building Estimation: Quantification of various items of construction – Method of building estimates -Illustrative examples

UNIT II: Estimation of RCC Structures
RCC Works and structures-, Estimate of RCC framed buildings, Retaining walls.
Principles of rate analysis - Standard data and schedule of rates approximate estimates, valuation.

UNIT III: Estimation of Roads and CD Works
Road Estimation - Earthwork Methods, Metalled Road, CC Track way, BT Roads, Culverts and Bridges

UNIT IV: Sanctioning of Estimates - Works
Estimation of Irrigation works. Types of Estimation – Sanction – Project

UNIT V: Rate Analysis
Analysis of Rates for different building works. Estimating of Quantity of Materials and Transport

UNIT VI: Specifications
Specifications – General Specifications, Detailed Specifications, Road Specifications.

References/Text Books:
1. B.N. Dutta "Estimating & Costing in Civil Engineering Theory and Practice" UBS Publishers & Distributors Limited New Delhi 1996.
2. M. Chakrabrti "Estimating, Costing, Specification and Valuation on Civil Engineering" Calcutta, 2002

Lecture Plan: Unit-I & -II syllabus for MID-I, Unit-III & -IV syllabus for MID-II and Unit-V & -VI syllabus for MID-III examinations.