

GUJARAT TECHNOLOGICAL UNIVERSITY

P.D.D.C. SEMESTER : VIII

CIVIL ENGINEERING

Subject Name: **PROFESSIONAL PRACTICE & VALUATION**

Subject Code: **X80601**

Teaching Scheme				Evaluation Scheme			
Theory	Tutorial	Practical	Total	University Exam (E)		Mid Sem Exam (Theory) (M)	Practical (Internal)
				Theory	Practical		
4	2	0	6	70	30	30	20

Sr. No.	Course Contents	Total Hrs
1.	Introduction: Purpose of estimating and valuation, Types of estimates. Building Estimate: Main items and their unit of measurement, methods of measurement-Methods of estimating quantities, Estimating quantities of building . Introduction to estimates of other Civil engineering structures. Specification: Objectives and importance of specification, Specification of materials, specification of works, specification as per building classification, Language of specific writing	12
2.	Market Survey: Traditional and modular materials, Market survey of materials of construction, Wages of labour, Tools plant and equipment of construction. Rate Analysis : Prerequisites, factors affecting rate analysis, over head expenses, procedure for rate analysis, schedule of rates, Task work: labour requirement for different works, material requirement for different works, Rate analysis of different items of work. Abstracting and Billing: Purpose of abstract, preparation of abstract, measurement and billing, Checking of bills and final bill	14
3.	Tenders And Contracts: Tender notice, tender document, Contract-contractor and terms and conditions of contract, Agreement, Form of Contract, Responsibility of owner, Architect, Contractor and Engineer Book Keeping: Work abstract, material at site account, measurement book, muster role hiring and maintenance of equipment, record of bills, vouchers and receipt book,	12
4.	Valuation: Purpose of valuation, types of property- Depreciation, Sinking fund, Lease hold and free hold property, obsolescence, Gross income, Outgoing and Net income, Capitalized value and year's purchase. Rental method of valuations, and typical problems.	10

Note: Each module carries equal weight age

Term work shall be based on above mentioned course content

TEXT BOOKS:

1. B. N. Dutta, Estimating and Costing In Civil Engineering, Ubs Publishers Distributors Ltd.
2. S. C. Rangwala, Estimating And Costing, Charotar Publishing House, Anand
3. G. S. Biridi, Textbook of Estimating & Costing, Dhanapat Rai & Sons. Delhi.
4. M.Chakroborti, Estimating, Costing, Specification and Valuation. Calcutta.
5. P.W.D. Hand Book Is Codes