

GUJARAT TECHNOLOGICAL UNIVERSITY
M E (Civil) CONSTRUCTION ENGINEERING AND MANAGEMENT

MAJOR ELECTIVES-I
CONSTRUCTION FINANCE & ACCOUNTING

Objectives :

To help students to understand various aspects of construction finance and management accounting for financial decision making.

Course content:

Basic financial concepts

Capital and Revenue, financial accounting, cost accounting, management accounting, financial management.

Accounting Process

GAPP, double entry system, ten point book keeping system, journal, ledger, cash book, trial balance, final account, provision and reserves, depreciation accounting, preparation of profit and loss account and balance sheet as per companies act, 1956, interpretation of financial statements.

Project Accounts

Methods of recording and reporting site accounts to project office and from project office to head office.

Financial Management

Financial statement analysis, ratio analysis, fund flow, cash flow analysis, source of finance. Estimating working capital needs and factors affecting it, financing working capital needs, sources, procedures and practice in construction industry, break even analysis.

Corporate taxing and tax planning, joint ventures, financial packaging of project.

Tutorials on construction finance

- (1) Terms related to finance & accounts.
- (2) Generally accepted accounting procedures.
- (3) Preparation of journal.
- (4) Preparation of final account / balance sheet.
- (5) Interpretation of financial statements.
- (6) Estimation of working capital
- (7) Break even analysis.
- (8) Tax planning.
- (9) Minimum two visits to construction account & finance department of construction firms.

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References :

- (i) Accounting for Management by Bhattacharya S.K. and John Dearden - Vani Educational Books, Bombay.
- (ii) Accounting and Finance Management for Construction Vol. I by Mott C.H. - John Wiley, New York
- (iii) Cost Accounting for Construction Firms by EPPS B.G. and Whiteman D.E. - John Wiley, New York.
- (iv) Construction Management : Planning & Finance by Corniman D. - Construction Press, London.