

GUJARAT TECHNOLOGICAL UNIVERSITY

ME Civil (Construction Engineering & Management)

Construction Finance and Accounting

SUBJECT CODE: 3711413

Type of Course: Elective Subject

Prerequisite: NIL

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE	PA(M)	Viva	PA (I)		
3	0	2	4	70	30	30	20	150

Course Contents:

Sr.No.	Topics	Hrs.	% Weightage
1	Basic Financial Concepts: Capital and Revenue, financial accounting, cost accounting, management accounting, financial management	3	8
2	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	7	20
3	Project Accounts: Methods of recording and reporting site accounts to project office and from project office to head office	6	16
4	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	7	20
5	Taxing: Corporate taxing and tax planning, joint ventures, financial packaging of project	6	16

6	Project Cost Management: Introduction. Cost Planning, Cost Budgeting and Cost Control. Estimation of project cost. Cost appraisal of project. Project cash- flow analysis and planning. Value engineering in cost validation	7	20
	Total	36	100

Reference Book(s)

1. Bhattacharya S.K. and John Dearden, "Accounting for Management" Vani Educational Books, Bombay.
2. Mott C.H., "Accounting and Finance Management for Construction Vol. I", John Wiley, New York.
3. EPPS B.G. and Whiteman D.E. , "Cost Accounting for Construction Firms", John Wiley, New York.
4. Corniman D., "Construction Management: Planning & Finance", Construction Press, London.