

# GUJARAT TECHNOLOGICAL UNIVERSITY

## CIVIL (CONSTRUCTION ENGINEERING AND MANAGEMENT)(14)

CONSTRUCTION FINANCE AND ACCOUNTING

SUBJECT CODE: 2711406

M.E. 1<sup>ST</sup> SEMESTER

**Type of course:** Core

**Prerequisite:** --

**Rationale:**--

**Teaching and Examination Scheme:**

Teaching Scheme			Credits C	Examination Marks						Total Marks
L	T	P		Theory Marks		Practical Marks				
			ESE (E)	PA (M)	PA (V)		PA (I)			
					ESE	OEP	PA	RP		
4	2	0	5	70	30	30	0	20	0	150

**Content:**

Sr. No.	Topics	Teaching Hrs.	Module Weightage
<b>1</b>	<b>Basic accounting concepts</b> Capital and Revenue, financial accounting, cost accounting, management accounting, financial management.	4	10
<b>2</b>	<b>Accounting Process</b> GAPP, double entry system, ten point book keeping system, journal, ledger, three columnar bank 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.	16	30
<b>3</b>	<b>Project Accounts</b> Methods of recording and reporting site accounts to project office and from project office to head office.	4	10
<b>4</b>	<b>Financial Management</b> 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.	16	30
<b>5</b>	Corporate taxing and tax planning, joint ventures, financial packaging of project.	8	20

**Reference Books:**

1. Accounting for Management by Bhattacharya S.K. and John Dearden – Vani Educational Books, Bombay.
2. Accounting and Finance Management for Construction Vol. I by Mott C.H. - John Wiley, New York
3. Cost Accounting for Construction Firms by EPPS B.G. and Whiteman D.E. - John Wiley, New York.

4. Construction Management: Planning & Finance by Corniman D. – Construction Press, London.

**Course Outcome:**

After learning the course the students should be able to:

1. Understand basic accounting concepts and finance.
2. Analyze accounting books and its application.
3. Understand financial analysis using ratios, cash flow, funds flow.
4. Understand and apply corporate tax laws in construction industry