

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES
SYLLABUS FOR B.E - IV SEMESTER
(STREAM BASED ELECTIVE)

Course Title: INTRODUCTION TO FINANCE MANAGEMENT FOR ENGINEERS

W.E.F ACADEMIC YEAR 2025-26

Instruction: 2 Hours	SEE: 60	Course code:U24OE410EH
Credits: 3	CIE: 40	Duration of SEE: 3 Hours

COURSE OBJECTIVES	COURSE OUTCOMES
<p>The course will enable the learners to:</p> <ol style="list-style-type: none"> 1. To introduce basic principles of finance and accounting relevant to engineering. 2. To develop the ability to interpret financial statements and assess financial performance. 3. To equip students with tools for cost estimation, budgeting, and financial planning in projects. 4. To familiarize students with concepts of investment analysis and capital budgeting. 5. To enable understanding of economic feasibility and risk analysis in engineering decisions. 	<p>At the end of the course the learners will be able to: -</p> <ol style="list-style-type: none"> 1. Understand and apply basic financial terminology, concepts, and statements. 2. Analyze and interpret balance sheets, income statements, and cash flow reports. 3. Estimate project costs, prepare budgets, and conduct break-even analysis. 4. Evaluate investment options using NPV, IRR, and payback period methods. 5. Assess the financial viability and risks of engineering projects and make informed decisions.

Background:

- This course is for Engineers
- Serves the purpose when these engineers become managers and entrepreneurs
- The focus is on Core Finance
- Prior requirement : Basic Arithmetic and Algebra
- Uniqueness – Introduction to International Finance

Unit -1: Introduction

Why Finance – Difference between finance and accounts – Role of finance in contemporary business
 – Goals of financial management – Risk Return Trade off – Time Value of Money (Simple numerical)

N. Manjushree
25/6/25

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PROFESSOR & HEAD
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problems on PV and FV) - BS, P&L, CF (Only structure) – Components and importance – diff between capex and opex.

Unit -2: Sources of Finance

Sources of fin Information – Company Annual Reports, Government (Budget highlights), Analysts and Regulators (RBI and SEBI only) - Debt Vs Equity – Effect of Leverage – Measurement of Cost of Debt and Equity – WACC – Bond Valuation (Simple Numerical Problems)

Unit-3: Financial performance assessment

Ratio Analysis – Activity, Liquidity and Profitability Ratios - Du Pont Analysis –Budgeting and Variance Analysis – (Simple Numerical problems) – Cash flow from Operations , Financing and Investments (Only theory)

Unit -4: Project Finance

Importance of Project Finance - Project Cost and Means of Finance - Contents of a Project Report – Technical and Environmental Aspects – Commercial and Financial Viability - Projected Financials, NPV, IRR and Plof the project - Sensitivity Analysis

Unit-5: International Finance (Only Theory)

Difference between Domestic and International Finance - Currency exchange Rates regimes- Factors affecting currency exchange rates-Spot and Forward Rates - Currency Forwards, Futures and Swaps - Components of Balance of Payments.

LEARNING RESOURCES:-

Financial Management, I M Pandey, Pearson Ed, ISBN 9789390577255

Financial Management – Theory, Concepts and Problems, R P Rustagi, Taxmann Publications.

The break-up of CIE: Internal Tests + Assignments + Quizzes

1	No. of Internal tests	:	<input type="text" value="2"/>	Max.Marks	:	<input type="text" value="30"/>
2	No. of assignments	:	<input type="text" value="3"/>	Max. Marks	:	<input type="text" value="5"/>
3	No. of Quizzes	:	<input type="text" value="3"/>	Max. Marks	:	<input type="text" value="5"/>

V. Mary Joseph
25/6/25

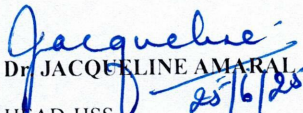
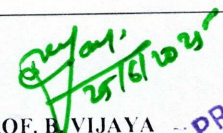
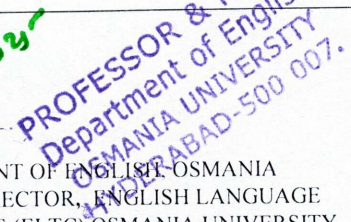
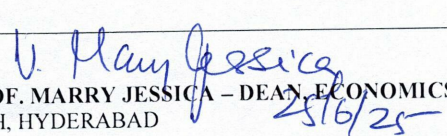
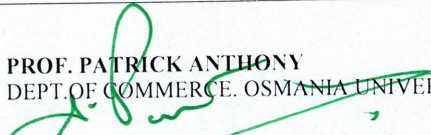
Prof. V. Mary Joseph

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Duration of Internal Tests : 90 Minutes

Duration for SEE : 180 Minutes

SIGNATURES:-

 Dr. JACQUELINE AMARAL HEAD-HSS CHAIRMAN, BOS, HSS, VCE	 PROF. B. VIJAYA HEAD, DEPARTMENT OF ENGLISH UNIVERSITY & DIRECTOR, ENGLISH LANGUAGE TEACHING CENTRE (ELTC), OSMANIA UNIVERSITY 
 PROF. MARRY JESSICA – DEAN, ECONOMICS UOH, HYDERABAD	 PROF. PATRICK ANTHONY DEPT. OF COMMERCE, OSMANIA UNIVERSITY
MEMBERS OF HSS, VCE :- Dr. G. MEENA Dr. K. JHANSI RANI Dr. M. JYOTHI	MEMBERS OF HSS, VCE :- Dr. B. SHEELA RANI SIMON Dr. T. SUNAND EMMANUEL Dr. DNS BHASKAR