

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

**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. May 2025

On

2025  
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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 PI of 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"/>

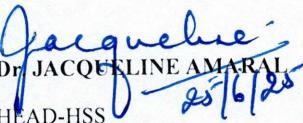
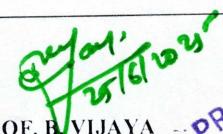
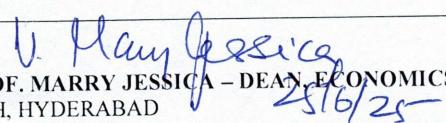
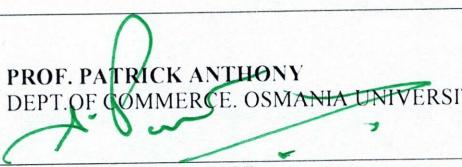
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Duration of Internal Tests : 90 Minutes

Duration for SEE : 180 Minutes

**SIGNATURES:-**

 Dr. JACQUELINE AMARAL HEAD-HSS CHAIRMAN, BOS, HSS, VCE	 PROF. B. VIJAYA HEAD, DEPARTMENT OF ENGLISH, OSMANIA 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