VASAVI COLLEGE OF ENGNEERING (AUTONOMOUS)

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

SYLLABUS FOR B.E3/4 VI semester
(Common for Civil, IT, EEE, [redacted] MECH branches)

ECONOMICS AND FINANCE FOR ENGINEERS
ACADEMIC YEAR 2025-26

Instruction: 2Hrs/week	**SEE Marks: 60**	**Course Code: U23HS040EH**
Credits: 2	**CIE Marks:40**	**SEE: 3 hrs.**

COURSE OBJECTIVES	**Course Outcomes**
The course will enable the learners to: Understand the concepts and tools of economics, accounting and finance that will equip them for decision making.	At the end of the course the learner will be able to : 1. Gain a conceptual understanding of economics as a discipline. 2. Construct a cost sheet and classify costs and make use of Marginal cost analysis in decision making. 3. Understand the accounting process and its importance. 4. Conceptual understanding of Financial Management and evaluate Long term investment decisions in business.

Unit I: Concepts in Economics : (6 Classes)

Definition of Managerial Economics-Scope of Managerial Economics-Relevance of Economics for Engineers-Demand function - Determinants of Demand - Law of Demand- assumptions and exceptions – Elasticity of demand (Price, Income and cross elasticity)- numericals on price elasticity of demand -Application-oriented approach of price Elasticity - Law of supply - Introduction to market structures.

Unit II: Cost Analysis and Profit Planning : (6 Classes)

Concept of Cost - Classification of Costs-Cost sheet (simple numericals) –Marginal Costing Analysis (simple numericals on Break Even Analysis only) - Application oriented approach (Make or buy, continue or shutdown decisions - Theory)

Unit III: Conceptual Understanding of Accounting : (6 Classes)

Accounting Cycle – Principles of Accounting - Journal-Subsidiary Books – Ledger-Trial Balance(Theory Only) Preparation of Trading and Profit and Loss Account and Balance Sheet (numericals with adjustments for closing stock, outstanding expenses, prepaid expenses, accrued incomes, incomes received in advance, depreciation, bad debts)

Unit IV: Financial Managementdecisions : (6 Classes)

Investment decisions - Long term – Capital budgeting – Traditional and DCF Techniques (Numericalson capital budgeting techniques namely PBP, ARR, NPV, and PI)–Short term - Introduction to working capital (gross and net working capital)

Learning Resources for students:

1. S.P.Jain and K.L Narang., "Financial Accounting", Kalyani Publishers –Latest edition.
2. S.P.Jain and K.LNarang., "Cost Accounting", Kalyani Publishers, Latest edition.
3. M.Y.Khan and P.K. Jain., "Financial Management – Text, Numericals and Cases", McGraw Hill Education Private Limited, New Delhi.Latest edition
4. M. Kasi Reddy &Saraswathi, Managerial Economics and Financial Analysis, PHI New Delhi, Latest edition.

Reference books:

1. Mehta P.L.,"Managerial Economics: Analysis,Numericals and Cases", Sultan Chand and Sons. Latest edition.
2. Narayanaswamy, "Financial Accounting: A Managerial Perspective", Prentice Hall India
3. M. L. Seth., "Micro Economics", *Lakshmi NarainAgarwal.* Latest edition
4. Dr. R.P. Rustagi., "Fundamentals of Financial Management"TaxmannPublications.Latest edition

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

1	No. of Internal tests	:	2	Max. Marks	:	30
2	No. of assignments	:	3	Max. Marks	:	5
3	No. of Quizzes	:	3	Max. Marks	:	5

Duration of Internal Tests : 90 Minutes

BOSSignatures:

Dr. JACQUELINE AMARAL Head-HSS BOS CHAIRMAN Dr. Jacqueline Amaral Head-Department of H&SS Vasavi College of Engineering (Autonomous) Ibrahimbagh, Hyderabad-31.	**Prof. V. Mary Jessica (UOH)** (Subject Expert) Prof. School of Management Studies
MEMBERS OF HSS, VCE :- **Dr.M.Jyothi** (Asst.Prof) Dept. of HSS	MEMBERS OF HSS, VCE :- **Dr. D N S Bhaskar (Asst. Prof)** Dept. of H&SS

CO-PO Correlation Matrix

Academic Year: 2025-26	Course Title: EFE		
Course Code: U23HS040EH	**Credits:2**	**Class: 3/4 VI semester**	
Faculty:			

Course Outcomes: On completion of the course, the student will be able to	
CO1	Gain a conceptual understanding of economics as a discipline.
CO2	Construct a cost sheet and classify costs and make use of Marginal cost analysis in decision making.
CO3	Understand the accounting process and its importance.
CO4	Conceptual understanding of Financial Management and evaluate Long term investment decisions in business.

Program Outcomes (POs)	
1	Graduates demonstrate knowledge of basic sciences and engineering.
2	Graduates demonstrate an ability to identify, formulate and solve engineering problems.
3	Graduates demonstrate an ability to design and conduct experiments, analyze and interpret data.
4	Graduates demonstrate an ability to design a system, component or process as per needs and specifications
5	Graduates demonstrate skills to use modern engineering tools, software and equipment to analyze for problem solving.
6	Graduates applythe knowledge to the society and professional engineering practice.
7	Graduate shows the understanding of impact of environment and society of engineering solutions and aim to provide sustainable solutions.
8	Graduates demonstrate knowledge of professional and ethical responsibilities.
9	Graduates shall be able to work independently and also in multi disciplinary teams
10	Graduates are able to communicate effectively in both verbal and written form.
11	Graduates will demonstrate the ability to handle the projects through appropriate project management techniques.
12	Graduates develop confidence for self education and ability for life-long learning

PO / CO	**CO-PO Correlation matrix**											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1									**1**		**2**	**1**
CO2									**1**		**2**	**1**
CO3				**1**								**1**
CO4											**3**	**1**