

INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad -500 043

COMPUTER SCIENCE ENGINEERING

COURSE DESCRIPTOR

Course Title	BUSIN	BUSINESS ECONOMICS AND FINANCIAL ANALYSIS					
Course Code	AHS01	15					
Programme	B.Tech	1					
Semester	V	V ECE IT CSE ME CE EEE					
Course Type	Skill						
Regulation	IARE -	R16					
	Theory Practical						
Course Structure	Lectu	ires	Tutorials	Credits	Laboratory	Credits	
	2		1	3	-	-	
Chief Coordinator	Ms. T. Tulasi Bai, Assistant Professor, MBA						
Course Faculty	Dr. E. Sunitha, Associate Professor, MBA Dr. T. Vara Lakshmi, Associate Professor, MBA						

I. COURSE OVERVIEW:

The present course is designed in such a way that it gives an overview of concepts of Economics. Managerial Economics enables students to understand micro environment in which markets operate how price determination is done under different kinds of competitions. Financial Analysis gives clear idea about concepts, conventions and accounting procedures along with introducing students to fundamentals of ratio analysis and interpretation of financial statements. Break Even Analysis is very helpful to the Business Concern for Decision Making, controlling and forward Strategic Planning. Ratio analysis gives an idea about financial forecasting, financial planning, controlling the business and decision making.

II. COURSE PRE-REQUISITES:

Level	Course Code	Semester	Prerequisites	Credits
-	-	-	-	-

III. MARKS DISTRIBUTION:

Subject	SEE Examination	CIA Examination	Total Marks
Business Economics and Financial Analysis	70 Marks	30 Marks	100

IV. DELIVERY / INSTRUCTIONAL METHODOLOGIES:

X	Chalk & Talk	~	Quiz	~	Assignments	X	MOOCs
~	LCD / PPT	~	Seminars	X	Mini Project	~	Videos
X	Open Ended Experi	ments					

V. EVALUATION METHODOLOGY:

The course will be evaluated for a total of 100 marks, with 30 marks for Continuous Internal Assessment (CIA) and 70 marks for Semester End Examination (SEE). Out of 30 marks allotted for CIA during the semester, marks are awarded by taking average of two CIA examinations or the marks scored in the make-up examination.

Semester End Examination (SEE): The SEE is conducted for 70 marks of 3 hours duration. The syllabus for the theory courses is divided into five units and each unit carries equal weight age in terms of marks distribution. The question paper pattern is as follows. Two full questions with "either" or "choice" will be drawn from each unit. Each question carries 14 marks. There could be a maximum of two sub divisions in a question.

The emphasis on the questions is broadly based on the following criteria:

50 %	To test the objectiveness of the concept.
50 %	To test the analytical skill of the concept OR to test the application skill of the concept.

Continuous Internal Assessment (CIA):

CIA is conducted for a total of 30 marks (Table 1), with 25 marks for Continuous Internal Examination (CIE), 05 marks for Quiz/ Alternative Assessment Tool (AAT).

Table 1: Assessment pattern for CIA

Component		Total Manks	
Type of Assessment	CIE Exam	Quiz / AAT	Total Marks
CIA Marks	25	05	30

Continuous Internal Examination (CIE):

Two CIE exams shall be conducted at the end of the 8th and 16th week of the semester respectively. The CIE

exam is conducted for 25 marks of 2 hours duration consisting of two parts. Part—A shall have five compulsory questions of one mark each. In part—B, four out of five questions have to be answered where, each question carries 5 marks. Marks are awarded by taking average of marks scored in two CIE exams.

Quiz / Alternative Assessment Tool (AAT):

Two Quiz exams shall be online examination consisting of 25 multiple choice questions and are be answered by choosing the correct answer from a given set of choices (commonly four). Marks shall be awarded considering the average of two quiz exams for every course. The AAT may include seminars, assignments, open ended experiments, five minutes video and MOOCs.

VI. HOW PROGRAM OUTCOMES ARE ASSESSED:

	Program Outcomes (POs)	Strength	Proficiency
			assessed by
PO 2	Problem analysis: Identify, formulate, review research	1	Assignments.
	literature, and analyze complex engineering problems reaching		
	substantiated conclusions using first principles of mathematics,		
	natural sciences, and engineering sciences.		
PO 8	Ethics: Apply ethical principles and commit to professional	1	Guest lectures
	ethics and responsibilities and norms of the engineering		
	practice.		
PO 9	Individual and team work: Function effectively as an	3	Seminars.
	individual, and as a member or leader in diverse teams, and in		
	multidisciplinary settings.		
PO 11	Project management and finance: Demonstrate knowledge	3	Presentation on
	and understanding of the engineering and management		real- world
	principles and apply these to one's own work, as a member and		problems
	leader in a team, to manage projects and in multidisciplinary		
	environments.		

3 = High; 2 = Medium; 1 = Low

VII. HOW PROGRAM SPECIFIC OUTCOMES ARE ASSESSED:

	Program Specific Outcomes (PSOs)	Strength	Proficiency
			assessed by
PSO 1	Professional Skills: The ability to understand, analyze and		
	develop computer programs in the areas related to algorithms,		
	system software, multimedia, web design, big data analytics,		
	and networking for efficient design of computer		

	Program Specific Outcomes (PSOs)	Strength	Proficiency
			assessed by
PSO 2	Problem-Solving Skills: The ability to apply standard		
	practices and strategies in software project development using		
	open-ended programming environments to deliver a		
	quality product for business success.		
PSO 3	Successful Career and Entrepreneurship: The ability to	2	Guest lectures
	employ modern computer languages, environments, and		
	platforms in creating innovative career paths to be an		
	entrepreneur, and a zest for higher studies.		

3 =High; 2 =Medium; 1 =Low

VIII. COURSE OBJECTIVES:

The cours	se should enable the students to:
I	Understand the concepts of managerial economics and financial analysis for optimal
	decision making in business environment.
II	Analyze the market dynamics namely demand, elasticity of demand and pricing in different
	market structures
III	Gain the knowledge on the production theories and cost analysis while dealing with the
	production and factors of production.
IV	Study the various pricing methods which are adopted in attracting the potential customers
	for the different commodities.

IX. COURSE OUTCOMES (COs):

COs	Course Outcome	CLOs	Course Learning Outcome
CO 1	CO 1 Understand the microeconomic factors in		Describe the economic activities performed by the businessmen in the business for profit earning.
	related to demand analysis and its forecasting	CLO 2	Understand the significance of demand, its analysis, measurement of demand and its forecasting.
CO 2	Apply the theory of production function and Cost concepts to determine	CLO 3	Write the production function through Different Combination of variable inputs with Economies of Scale
	the Break Even Analysis.	CLO 4	Analyze the Different cost concepts and determine the significance of Break Even Analysis
CO 3	Remember different market structures, pricing strategies and different forms	CLO 5	Design and implement different structures of market covering how price is determined under different market structures
	business organization	CLO 6	Analyze different forms of business organizations existing in the modern business.
CO 4	Determine the investment decisions of organizations	CLO 7	Describe the allocation and sources of capital which plays a vital role in a business organization.
	by applying capital budgeting methods and Strategies.	CLO 8	Demonstrate the concept of capital budgeting and allocations of the resources through capital budgeting methods
CO 5	Interpret the financial statement by using	CLO 9	Interpret the financial position of business by applying accounting concepts and conventions.
	Fundamental accounting concepts and Ratio analysis.	CLO 10	Apply the ratio Analysis to assess the operating efficiency and profitability of business.

X. COURSE LEARNING OUTCOMES (CLOs):

CLO	CLO's	At the end of the course, the student will have the	PO's	Strength
Code		ability to:	Mapped	of
				Mapping
AHS015.01	CLO 1	Describe the economic activities performed by the	PO 11	3
		businessmen in the business for profit earning.		
AHS015.02	CLO 2	Understand the significance of demand, its analysis,	PO 2	1
		measurement of demand and its forecasting.		
AHS015.03	CLO 3	Write the production function through Different	PO 8	1
		Combination of variable inputs with Economies of Scale		
AHS015.04	CLO 4	Analyze the Different cost concepts and determine the	PO 2	1
		significance of Break Even Analysis		
AHS015.05	CLO 5	Design and implement different structures of market	PO 8	1
		covering how price is determined under different		
		market structures		
AHS015.06	CLO 6	Analyze different forms of business organizations	PO 8	1
		existing in the modern business.		
AHS015.07	CLO 7	Describe the allocation and sources of capital which	PO 9,	3
		plays a vital role in a business organization.	PO11	
AHS015.08	CLO 8	Demonstrate the concept of capital budgeting and	PO 2,	2
		allocations of the resources through capital budgeting	PO11	
		methods		
AHS015.09	CLO 9	Interpret the financial position of business by applying	PO 2	1
		accounting concepts and conventions.		
AHS015.10	CLO 10		PO2,PO11	2
		efficiency and profitability of business.		

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XI. MAPPING COURSE OUTCOMES LEADING TO THE ACHIEVEMENT OF PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES:

Course Outcomes (COs)	Program Outcomes (POs)									
	PO 2	PO 8	PO 9	PO11	PSO3					
CO 1	1			3						
CO 2	1	1			2					
CO 3		1			2					
CO 4	1		3	3	2					
CO 5	1			3						

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XII. MAPPING COURSE LEARNING OUTCOMES LEADING TO THE ACHIEVEMENT OF PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES:

(CLOs)		Program Outcomes (POs)								Program Specific Outcomes (PSOs)					
(CLOS)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CLO1											3				
CLO2		1													

(CLOs)	Program Outcomes (POs)								Program Specific Outcomes (PSOs)					
(CLOS)	PO1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12						PO12	PSO1	PSO2	PSO3			
CLO3								1						
CLO4		1												2
CLO5								1						2
CLO6								1						2
CLO7									3	3				2
CLO8		1								3				
CLO9		1												
CLO10		1								3				

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XIII. ASSESSMENT METHODOLOGIES - DIRECT

CIE Exams	PO 2, PO8, PO 9, PO11 PSO3	SEE Exams	PO 2, PO8, PO 9, PO11 PSO3	Assignments	PO2	Seminars	PO9
Laboratory Practices	-	Student Viva	-	Mini Project	-	Certification	-
Term Paper	-						

XIV. ASSESSMENT METHODOLOGIES - INDIRECT

~	Early Semester Feedback	~	End Semester OBE Feedback
Х	Assessment of Mini Projects by Experts		

XV. SYLLABUS

UNIT -I	INTRODUCTION & DEMAND ANALYSIS					
Introduction to Business Economics: Definition, Nature and Scope of Managerial Economics – Demand Analysis: Demand Determinants, Law of Demand and its exceptions. Elasticity of Demand: Definition, Types, Measurement and Significance of Elasticity of Demand. Demand Forecasting, Factors governing demand forecasting, methods of demand forecasting						
UNIT -II	PRODUCTION & COST ANALYSIS					
Theory of Production and Cost Analysis: Production Function – Iso-quants and Iso-costs, MRTS, Least Cost Combination of Inputs, Cobb-Douglas Production function, Laws of Returns, Internal and External Economies of Scale. Cost Analysis: Cost concepts, Opportunity cost, Fixed vs. Variable costs, Explicit costs vs. Implicit costs, out of pocket costs vs. Imputed costs, Break-even analysis, Determination of Break – Even point (Simple Problems), Managerial Significance of BEA.						
UNIT - III	MARKETS& NEW ECONOMIC ENVIRONMENT					

Market structures: Types of competition, Features of perfect competition, Monopoly and monopolistic competition. Price determination& Price Statistics: Price Output determination in case of perfect competition and monopoly.

Features and evaluation of different forms of Business organization: Sole proprietorship, partnership, Joint Stock Company, public enterprises and their types.

UNIT -IV CAPITAL BUDGETING

Capital and its significance, types of capital, estimation of fixed and working capital requirements, methods and sources of raising capital- Trading Forecast, Capital budget, Cash Budget. Features of capital budgeting proposals, methods of capital budgeting – payback method, Accounting rate of return (ARR), Net Present Value Method (simple problems).

UNIT -V INTRODUCTION TO FINANCIAL ACCOUNTING AND FINANCIAL ANALYSIS

Accounting Concepts and Conventions, Introduction to IFRS—Double—Entry Book keeping, Journal, Ledger, Trial balance, Final accounts (Trading Account, Profit and Loss Account and Balance Sheet with simple adjustments.) Financial Analysis through Ratios: Significance, limitations of Ratio Analysis and Ratios Computation, Analysis and Interpretation of Liquidity Ratios (Current Ratio and quick ratio). Activity Ratios (Inventory turnover ratio and Debtor Turnover ratio), Capital structure Ratios (Debt-Equity ratio, Interest Coverage ratio) and profitability ratios (Gross profit Ratio, Net profit ratio, Operating Ratio, P/E Ratio and EPS), Du Pont Chart.

Text Books:

- 1. Aryasri, "Managerial Economics and Financial Analysis", TMH publications, 4 th Edition, 2012.
- 2. M. Kasi Reddy, Saraswathi, "Managerial Economics and Financial Analysis", PHI Publications, New Delhi, 2 nd Edition, 2012.
- 3. Varshney, Maheswari, "Managerial Economics", Sultan Chand Publications, 11th Edition, 2009.

Reference Books:

- 1. D.N. Dwivedi, "Managerial Economics", Vikas Publication House Pvt.Ltd, 2nd Edition, 2012.
- 2. S.N. Maheshwari & S.K.Maheshwari, "Financial Accounting", Vikas Publication House Pvt.Ltd, 4th Edition, 2012.
- 3. R.Narayana Swamy, "Financial Accounting- A managerial Perspective", Pearson publications, 1st Indian Reprint Edition, 2012.
- 4. J.V.Prabhakar Rao & P.V.Rao, "Managerial Economics & Financial Analysis", Maruthi Publishers, 1st Revised Edition, 2011.

XVI. COURSE PLAN:

The course plan is meant as a guideline. Probably there may be changes.

Lecture No	Topics to be covered	Course Learning Outcomes (CLOs)	Reference
1 - 2	Explain about managerial economics according to the business	CLO 1	T1- 1.3-1.8 R1-1.5-1.7
3 - 4	Describe about demand analysis, the Law of Demand and Demand Function.	CLO 2	T1-2.2-2.11 R1-3.3-3.20
5 - 6	Understand elasticity of the demand of the product, different types, Measurement of Elasticity of Demand and Factors influencing on Elasticity of Demand.	CLO 2	T1-3.3-3.20 R1- 5.29-6.8
7	State different methods of Demand Forecasting and the factors governing Demand Forecasting.	CLO 2	T1-4.6-4.19
8 - 9	Demonstrate the Production function, features of Iso-Quants and Iso-Costs, different types of Internal Economies, External Economies and Law of Returns.	CLO 3	T1- 5.3-5.18 R1- 5.29-6.8
10 - 12	Different types of Internal Economies, External Economies ad Law of Returns with appropriate examples.	CLO 4	T1- 5.3-5.18
13 - 14	Illustrate different types of costs	CLO 4	T1- 5.29-6.8

Lecture No	Topics to be covered	Course Learning Outcomes (CLOs)	Reference
15 - 16	Explain the Significance and Limitations of Break-Even Analysis	CLO 4	T1- 7.13-7.14
17 -18	Calculate Break-Even Point (Simple Problems)	CLO 4	T1-7.1-7.12
19 - 20	Illustrate the features, price-output determination under Perfect Competition, Monopoly and Monopolistic competition Markets.	CLO 5	T1- 8.4-8.16 R2- 5.29-6.8
21 -23	Demonstrate the Objectives, Policies and Methods of Pricing Strategies and Price Methods.	CLO 5	T1- 8.21-8.25
24 - 25	Describe Features of business, Definitions of Various forms of Business Units.	CLO 6	T1-9.3-9.15
26 - 29	State the Merits & Demerits of Different types of Public Enterprises and Changing Business Environment to Post Liberalization Scenario.	CLO 6	T1- 9.2-10.23 R1- 8.21-8.25
30 - 31	Explain the significance and classification of capital, Methods and Sources of Raising Finance.	CLO 7	T1- 9.2-10.23
32 - 33	Demonstrate the concept of capital budgeting and allocations of the resources through capital budgeting methods and compute simple problems.	CLO 8	T1- 11.3-11.5 R2- 12.3-12.5
33 - 37	Illustrate the Significance of Financial Accounting, Double Entry, Accounts, Accounting Concepts and Conventions	CLO 9	T1-12.1-12.26
38- 41	Explain the meaning, advantages and Limitations of the Journal, Ledger and Trial Balance and Final Accounts and Solve simple Problems.	CLO 9	T1-13.4-13.15 R2- 11.3-11.5
42 - 43	Describe Meaning, Definitions and Limitations of Ratio Analysis	CLO 10	T1-13.4-13.15 R2- 11.7-11.8
44 - 45	Compute different types of Financial Ratios (Problems)	CLO 10	T1-13.5-13.68

XVII. GAPS IN THE SYLLABUS - TO MEET INDUSTRY / PROFESSION REQUIREMENTS:

S. No	Description	Proposed actions	Relevance with PO's	Relevance with PSO's
1	Introduction of macro economy concepts for understanding of global economics.	Guest lectures	PO 11	PSO 3
2	Incorporate investment decisions through working capital management.	NPTEL	PO 2	PSO 3

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HOD, CSE