Techno India NJR Institute of Technology



Course File MEFA (4CE1- 03)

Shambhu P.Choubisa (Assistant Professor) **Department of Mechanical**





RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Syllabus

2nd Year - IV Semester: B.Tech. : Mechanical Engineering

4ME1-03/3ME1-03: MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTING

Credit: 2 Max. Marks: 100 (IA:20, ETE:80) 2L+0T+0P End Term Exam: 2 Hours

ALT	J1+OP End Term Exam:	2 nouis
SN		Hours
1	Introduction: Objective, scope and outcome of the course.	1
2	Basic economic concepts- Meaning, nature and scope of economics, deductive vs inductive methods, static and dynamics, Economic problems: scarcity and choice, circular flow of economic activity, national income-concepts and measurement.	3
3	Demand and Supply analysis- Demand-types of demand, determinants of demand, demand function, elasticity of demand, demand forecasting -purpose, determinants and methods, Supply-determinants of supply, supply function, elasticity of supply.	5
4	Production and Cost analysis- Theory of production- production function, law of variable proportions, laws of returns to scale, production optimization, least cost combination of inputs, isoquants. Cost concepts-explicit and implicit cost, fixed and variable cost, opportunity cost, sunk costs, cost function, cost curves, cost and output decisions, cost estimation.	5
5	Market structure and pricing theory- Perfect competition, Monopoly, Monopolistic competition, Oligopoly.	4
6	Financial statement analysis- Balance sheet and related concepts, profit and loss statement and related concepts, financial ratio analysis, cash-flow analysis, funds- flow analysis, comparative financial statement, analysis and interpretation of financial statements, capital budgeting techniques.	8
	TOTAL	26

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(Principal)

Course Overview:

To integrate the basic concepts of economics with the tools of mathematics and statistics in order to analyse and make optimal business decisions. To Understand the roles of managers in firms, Understand the internal and external decisions to be made by managers, Analyze the demand and supply conditions and assess the position of a company, Design competition strategies, including costing, pricing, product differentiation, and market environment according to the natures of products and the structures of the markets, Analyze real-world business problems with a systematic theoretical framework., Make optimal business decisions by integrating the concepts of economics, mathematics and statistics.

Course Outcomes:

CO NO	COGNETIVE LEVEL	COURSE OUTCOME
4CS1-03.1	Synthesis	Describe the core economic terms, concepts, and theories. Apply the concept of equilibrium to both microeconomics and macroeconomics.
4CS1-03.2	Synthesis	Explain the function of market and prices as allocate mechanisms.
4CS1-03.3	Synthesis	Identify key macroeconomic indicators and measures of economics change, growth, and development
4CS1-03.4	Analysis	Discuss in detail different market situations such as monopoly, oligopoly, monopolistic and perfect markets and explanation through graphical representation.
4CS1-03.5	Analysis	Discuss the process & principles of financial accounting and prepare Profit & Loss A/c. and Balance Sheet of an enterprise transforms.



Course Outcome Mapping with Program Outcome:

Course	РО	РО	РО	РО	РО	РО	РО	РО	РО	PO1	PO1	PO1	PSO	PSO	PSO
Outcome	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3
CO242.1	2	2	2	2	1	1	1	1	1	1	1	2	1	1	1
CO242.2	2	2	2	2	1	1	1	1	1	1	1	2	1	1	1
CO242.3	2	2	2	2	1	1	1	1	1	1	1	2	1	1	1
CO242.4	1	2	2	2	2	2	1	2	2	2	2	2	2	0	0
CO242.5	1	1	2	1	2	2	1	1	2	1	1	2	1	0	0
CO242 (AVG)	1.6	1.8	2	1.8	1.4	1.4	1	1.2	1.4	1.2	1.2	2	1.2	0.6	0.6

Course Coverage Module Wise



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Academic Administration of Techno NJR Institute Syllabus Deployment

Name of Faculty: Mr. Shambhu P. Choubisa

Subject Code:4ME1-03/3ME1-03(MEFA)

Department: Department of Mechanical Engineering SEM: IV

Total No. of Lectures Planned: 26

Lecture	Unit	Topic
No.		
1	1	Introduction to scope, objective and outcome of subject
2	2	Meaning, nature and scope of economics, deductive vs inductive
		methods,
3	2	static and dynamics, Economic problems: scarcity and choice,



4 2 circular flow of economic activity, 5 2 national income-concepts and measurement. 6 2 Numericals 7 3 Demand-types of demand, determinants of demand,	
6 2 Numericals	
0 2	
7 Demand-types of demand determinants of demand	
Jemana types of demand, determinants of demand,	
8 3 demand function, elasticity of demand	
9 demand forecasting –purpose, determinants and methods	
10 3 Supply-determinants of supply, supply function, elasticity	y of supply.
11 4 Theory of production- production function	
12 4 law of variable proportions, laws of returns to scale, prod	luction
optimization,	
13 4 least cost combination of inputs, isoquants.	
14 Cost concepts-explicit and implicit cost, fixed and variab	ole cost,
15 4 opportunity cost, sunk costs, cost function,	
16 4 cost curves, cost and output decisions, cost estimation.	
17 Market structure and pricing theory, Perfect competition,	Monopoly,
18 5 Monopolistic competition, Oligopoly	
19 5 Equilibrium price, equilibrium quantity	
20 6 Balance sheet and related concepts,	
21 6 profit and loss statement and related concepts,	
6 financial ratio analysis, cash-flow analysis, funds flow ar	nalysis,
23 6 comparative financial statement, ,	
24 6 analysis and interpretation of financial statements	
25 6 capital budgeting techniques	
26 6 Numerical	



Assessment Methodology:

- 1. Practical exam in lab where they have to prepare practical model related to economics laws .(Once in a week)
- 2. Assignments one from each unit.
- 3. Midterm subjective paper where they have to attempt numericals.
- 4. Final paper at the end of the semester subjective.

Teaching and Learning resources unit-wise:

Unit-1

Basic Concept of Economics

Video

Tutorials: https://www.youtube.com/watch?v=ycyMktNFZ88&list=PLPjSqITyvDeV84Qiruw4x VWGQPTctrlhg

Theory

conchttps:\https://drive.google.com/file/d/1WdD6qd5hk WdoElN2TYW3icvj9jmrUzy/view?usp = sharing

Sample

Quiz:https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-economics/

Unit-2

A. National Income

Video Tutorials:https://www.youtube.com/watch?v=A374ELBK7Cc



Theory

concepts: https://drive.google.com/file/d/1WdD6qd5hk_WdoElN2TYW3icvj9jmrUzy/view?usp=sharing

Sample Quiz:

https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-ec onomics/

B. National Income numerical

Video Tutorials: https://www.youtube.com/watch?v=oHdMJ4MDRO4

Theory concept: -

https://drive.google.com/file/d/1WdD6qd5hk_WdoElN2TYW3icvj9jmrUzy/view?usp=sharing

Sample

Quiz:https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-ec onomics/



Unit-3

A. Theory of demand & supply

Video Tutorials:

https://www.youtube.com/watch?v=ytQxam0_Hns&list=PLPjSqlTyvDeV84Qiruw4xVWGQPTctrlhg&index=2

Theory concept:

https://drive.google.com/file/d/1WdD6qd5hk_WdoElN2TYW3icvj9jmrUzy/view?usp=sharing

Sample Quiz:

https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-economics/

B. Deteminants of supply

Video Tutorials:

https://www.youtube.com/watch?v=zNbCYc4n1-s&list=PLPjSqITyvDeV84Qiruw4xVWGQPTctrlhg&index=4

Theory concepts:

https://drive.google.com/file/d/1WdD6qd5hk_WdoElN2TYW3icvj9jmrUzy/view?usp=sharing

Sample

Quiz:https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-ec onomics/

Unit-4

A. Production optimization & types of cost

Video

Tutorials: https://www.youtube.com/watch?v=VU1zySe-8NA&list=PLPjSqITyvDeV84Qiruw4x https://www.youtube.com/watch?v=VU1zySe-8NA&list=PLPjSqIT

Theory concepts:

https://drive.google.com/file/d/1WdD6qd5hk WdoElN2TYW3icvj9jmrUzy/view?usp=sharing



Sample

Quiz: https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-economics/

B. Types of cost curve

Video Tutorials:

https://www.youtube.com/watch?v=HLCBEJM2y7M&list=PLPjSqlTyvDeV84Qiruw4xVWGQPTctrlhg&index=17

Theory concepts:

https://drive.google.com/file/d/1WdD6qd5hk_WdoElN2TYW3icvj9jmrUzy/view?usp=sharing

Sample Quiz:

https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-economics/

Unit-5

A. Types of Market: Economics

Video Tutorials:https://www.youtube.com/watch?v=PuEdwVHaUVQ

Theory:https://drive.google.com/file/d/13KaLXWAfpEBW-RINOY7OsLWcMsJK39rL/view?usp=sharing

Sample

Quiz: https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-economics/

B. Market Equilibrium

Video

Tutorials: https://www.youtube.com/watch?v=HnAwvKAqaMU&list=PLPjSqITyvDeV84Qiruw 4xVWGQPTctrlhg&index=14

Theory

concepts: https://drive.google.com/file/d/13KaLXWAfpEBW-RINOY7OsLWcMsJK39rL/view?usp=sharing



Sample

Quiz: https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-economics/

Unit-6

C. Finacial Statement

Video

Tutorials: https://www.youtube.com/watch?v=OT5RdoJAkhY&Iist=PLPjSqITyvDeUTeAOGhip_ubjN3y80gT13

Theory:

https://drive.google.com/file/d/1J01lYWl1_UhD8ebU1YWws3wpzFfga1UU/view?usp=sharing

Sample

Quiz: https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-economics/

D. Numericals on Financial statement.

Video Tutorials:

https://www.youtube.com/watch?v=OT5RdoJAkhY&list=PLPjSqlTyvDeUTeAOGhip ubjN3y8oqT13

Theory

concepts:https://drive.google.com/file/d/1J01lYWl1 UhD8ebU1YWws3wpzFfga1UU/view?usp=sharing

Sample

Quiz: https://scholarexpress.com/multiple-choice-questions-mcq-with-answers-on-managerial-economics/



3E1103

Roll No.

Total No of Pages: 2

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3E1103

B. Tech. III - Sem. (Main / Back) Exam., Dec. 2019
HSMC Civil Engineering
3CE1-03 Managerial Economics & Financial Accounting
Common For All Branches

Time: 2 Hours

Maximum Marks: 80

Instructions to Candidates:

Attempt all five questions from Part A, four questions out of six questions from Part B and two questions out of three from Part C.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

I. NIL

. NIL

PART - A

(Answer should be given up to 25 words only)

 $[5 \times 2 = 10]$

All questions are compulsory

- Q.1 Why do economic problems arise?
- Q.2 What is demand forecasting?
- Q.3 What does opportunity cost mean?
- Q.4 What do you mean by monopolistic competition?
- Q.5 What does a balance sheet depicts?

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PART - B

(Analytical/Problem solving questions)

[4×10=40]

- Attempt any four questions
- Q.1 Explain the deductive and inductive methods of constructing economic theory.
- Q.2 Explain with the help of curves the relationship between total cost, total variable cost and total fixed cost.
- Q.3 How does perfect competition differ from monopoly? Discuss.
- Q.4 Discuss the concepts of assets and liabilities.
- Q.5 Write short notes on comparative financial statements.
- Q.6 Explain the concept of elasticity of demand.

PART - C

(Descriptive/Analytical/Problem Solving/Design Questions) [2×15=30] Attempt any two questions

- Q.1 What are the three methods of measuring national income? Elaborate.
- Q.2 Using suitable diagrams explain the Law of variable proportions.
- Q.3 Critically examine the Present Value Method and Internal Rate of Return Method for evaluating capital budgeting proposals.

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