

B-401: Operations Management

Level of Knowledge: Working Knowledge

Course Objectives: To help students understand the concepts of operation functions, various tools used for solving problems faced by operations managers.

Scheme of Examination

Total marks 100.

Internal marks 40.

External marks 60.

External examination will have 8 questions, out of which a students has to attempt any five. In the external examination, there will be two sections, A and B. Section A, worth 24 marks, will consist of four theory questions out of which a student will be required to attempt any two questions. Section B, worth 36 marks, will have five numerical problem(s)/ practical problem(s), out of which a student will be required to attempt any three questions. Each question will carry equal marks. A question can have one or more sub-parts

Contents

Unit 1: Introduction to Operations Management (OM):

- Meaning and functions of OM
- Current trends in OM, OM manufacturing and service industries
- Issues of OM (short-term and long-term)
- Challenges faced by OM

Unit 2: Facility Planning

- Product and Process selection
- Location, Layout
- Material handling Capacity planning
- Work Design and Job Design

Unit 3: Production Planning and Control:

- For Mass Production, Batch production, Job Shop
- Production of Projects
- Network Analysis- PERT and CPM
- Product Design, Break Even Analysis

Unit 4: Quality Control:

- Quality Assurance
- Reliability, ISO- Inspection
- Replacement and Maintenance

Unit 5: Inventory Management:

- Factors Influencing
- Purchase Management
- Raw material
- Basic Inventory Model
- Control System
- Value analysis

Text Readings

- 1. Paneerselvam, R., Production and Operations Management, New Delhi, Prentice Hall of India Publications.**
- 2. Mahadevan, B., Operations Management Theory and Practice, New Delhi, Pearson Education (Dorling Kindersley (India) Pvt. Ltd.)**

Suggested Readings

- 1. Chary, S.N., Cases and Problems in Production and Operations Management, New Delhi, Tata McGraw Hill Publications.**
- 2. Evans, J. R., Anderson, David R., Sweeney, D. J. and Williams, T.A., Applied Production and Operations Management, Newyork: West Publishing Co., 1985.**

B-402: Managerial Economics

Level of Knowledge: In-depth Knowledge

Career objective: To acquaint students with various economic concepts.

Scheme of Examination

Total marks 100.

Internal marks 40.

External marks 60.

External exam will have 2 sections A and B. Section A worth 36 marks will consist of 5 theory questions, out of which students will be required to attempt any 3 questions, and section B will comprise of one or more case(s), or practical problem worth 24 marks. A question can have one or more sub-parts.

Course Content

Unit 1: Introduction to Managerial Economics:

- Definition
- Nature and Scope of Economics.
- Significance of Managerial Economics
- Difference between Managerial Economics & Micro & Macro Economics
- Role of Economics in Decision Making.

Unit II: Demand Analysis and Supply Analysis:

- Meaning of Demand
- Types of Demand, Law of demand
- Determinants of Demand, Demand Function
- Elasticity of demand- price elasticity of demand. Income elasticity of demand, Cross Elasticity of demand
- Law of Supply, Supply Schedule, Supply Curve
- Price elasticity of supply

Unit III: Production Analysis:

- Production function, Types of Production Function
- Law of Returns
- Law of variable proportions
- Law of Increasing Returns
- Law of Constant Returns
- Law of Diminishing returns
- Returns to scale

Unit IV: Cost and Revenue Analysis:

- Cost concepts
- Elements of Cost
- Relationship between Production and Cost
- Average and Marginal cost curves
- Relationship between average and marginal cost
- Concept of revenue, Revenue Curve
- Relationship between average and marginal revenue

Unit V: Market Structures:

- Meaning of Market
- Classification of markets
- Perfect Competition
- Monopoly Market
- Monopolistic Market
- Oligopoly Market

Text Readings:

- 1. D.N.Dwivedi, Managerial Economics, Vikas Publications, New Delhi –**
- 2. Atmanand Managerial Economics Excel Books, New Delhi**

B-403 Business Costing

Level of Knowledge: Working knowledge

Objective: The objective of this course is to provide the students with the basic knowledge of various components of cost, their ascertainment control and the application of costing concepts in various functional areas.

Scheme of Examination:

Total Marks: 100

Internal Evaluation: 40 Marks

External Evaluation: 60 Marks

External examination will have 8 questions, out of which a student has to attempt any five. In the external examination, there will be two sections, A and B.

Section A, worth 24 marks, will consist of four theory questions out of which student will be required to attempt any two questions.

Section B, worth 36 marks, will have five numerical problem(s)/ practical problem(s), out of which a student will be required to attempt any three questions. Each question will carry equal marks. A question can have one or more sub-parts.

Course Content:

Unit I: Introduction to Cost Accounting

- Nature & Scope of Cost Accounting
- Relationship with Financial & Management Accounting
- Objectives , Advantages & Limitations of Cost Accounting
- Analysis and Classification of cost
- Elements of Cost

Unit II: Material Cost Control

- Costing of Material
- Pricing of Material Methods
 - ✓ Cost Price Method : LIFO, FIFO,HIFO
 - ✓ Average Cost Price Methods
 - ✓ Market Price Methods
 - ✓ Notional Price Methods
 - ✓ Numerical on LIFO,FIFO & HIFO & Average Cost Price Methods
- Meaning of Inventory/Material Control
- Objectives of Inventory Control
- Methods & techniques of Material Control
 - ✓ Numerical on ABC Analysis & Economic Order Quantity(EOQ)
- Determinants of Inventory or Material Limits & Levels
 - ✓ Determination of Maximum Level ,Minimum level, Order point, Danger Level & Average Stock Level, Re-order Level
- Treatment of Material Wastage/Losses

Unit III Labour Cost Accounting

- Composition of Labour Cost & Labour Turnover
- Measurement of Labour Turnover : Separation Method, Replacement Method & Flux Method
- Treatment of Idle Time & Over Time
- Methods of Wage Payment
 - ✓ Time Rate System
 - ✓ Payment by Result –Piece Rate System
 - ✓ Incentives Schemes

Unit IV Accounting for Overhead

- Classification & Treatment
- Apportionment of Overheads
- Absorption of Overhead
- Methods of Absorption of Overhead

Unit V Unit or Output Costing

- Preparation of Cost Sheet
- Process Costing
- Joint Product & By-product Concepts
- Cost determination of By-Product

Text Reading:

1. S N Maheshwari, “Cost Accounting, Theory and Problems”, Vikas Publications, New Delhi: III Edition 2000.

B-404 COMPUTER PROGRAMMING

Level of Knowledge: Working Knowledge

Course Objective: The objective of this course is to acquaint the student with the basic concepts of computer programming.

Scheme of Examination

Total marks 100

Internal marks 20

Practical Marks 20

External marks 60

External exam will have 8 theory questions, out of which students will be required to attempt any 5 questions, and a question can have one or more sub-parts.

Course Content

Unit I Basics of Computer Programming

- Problem Analysis
- Flow Charts
- Decision Tables
- Pseudo Codes and Algorithm
- High Level Language
- Steps in Programming
- A Model of Computer System.

Unit II Introduction to C Language

- Historical Development Of C Language
- C Character Set, Constants, Variable and Key Word
- C Instructions
- C Data Types.

Unit III Decision Control Structure

- If Statements, If-Else, Nested If Else
- Logical Operators, Conditional Operators
- Loop Control Structures
- While Loop, For Loop, Do-While Loop, Nesting of Loops
- Use of Break ,Continue Statements, Case Control Structure using Switch
- Go To Statement

Unit IV Functions

- Use to Functions
- Passing Values Between Functions
- Scope Rule of Function
- Function Declarations and Prototypes
- Call by Value and Call by Reference

- Introduction to Pointers, Pointer Notation, Recursion, Standard Library String Functions

Unit V Arrays:

- Definitions, Initialization, Passing Arrays Elements to a Function, Two Dimensional and Three Dimensional Arrays, Pointers to Two Dimensional Arrays and Arrays of Pointers.

Text Readings

1. **Kanetkar Yeshwant:Let Us C,BPB Publication,New Delhi.**
2. **Mulish Henry & Cooper Herbert L.:The Spirit of C, Jaico Publishing House,Bombay.**
3. **Gottfried B.S.,Schyam Series:Programming in C,Tata Mcgraw Hill,New Delhi.**
4. **Rajaraman V:Computer Programming in C,Prentice Hall Of India Pvt. Ltd.**

B-405: ENTREPRENEURSHIP

Knowledge level: Working knowledge

Course Objectives: The objective of the course is to equip the students with basic skills in starting their own enterprises.

Scheme of Examination

Total marks 100.

Internal marks 40.

External marks 60.

The External Examination will have Two Sections. Section A will carry 36 marks comprising 5 Theory questions out of which a student will be required to attempt any **three** questions. Section B will carry 24 Marks comprising of one or more Case(s). A question can have one or more sub-parts.

Contents

Unit 1: Entrepreneur and Entrepreneurship:

- Concepts, Characteristics and Functions of an Entrepreneur
- Types of Entrepreneurs
- Major Entrepreneurial Competencies
- Developing Competencies and Role of Enterprises in Economic Development.

Unit 2: Project Identification and Formulation:

- Criteria for selecting a particular project
- Scanning of business environment and identifying projects
- Steps in Project Formulation and Project Evaluation

Unit 3: Preparation of Business Plan/ Project Report:

- Significance
- Formulation, Planning commission guidelines for formulating the project report and common errors in project formulation.

Unit 4: Institutional finance to entrepreneurs:

- Commercial banks, Financing Institutions (IDBI, IFCI, ICICI, IRBI, LIC, UTI, SFC, SIDC, SIDBI, an EXIM Bank).

Unit 5: Institutional Support to Entrepreneurs:

- Needs,
- Support Institutions: National Small Industry Corporation Ltd (NSIC), Small Industries Development Organization (SIDO), Small Scale Industries Board (SSIB), State Small Industries Development Corporation (SSIDC), Small Industries Service Institutes (SISI), District Industries Centres (DICs)

Text Readings:

1. **Khanka, Entrepreneurship Development, New Delhi, S. Chand**
2. **Vasant Desai, Dynamics of Entrepreneurial Development and Management, New Delhi: Himalaya.**
3. **Entrepreneurship Development- Centre for Research and Industrial Staff Performance, New Delhi; Tata McGraw Hill**