

FINANCIAL ACCOUNTING - I

**1. Course Description**

Programme: B.COM (A&F, IB, H, CAP, IPP)

Course Code: U26/COM/DSC/101

Max. Hours: 75

Course Type: MJR

Hours per week: 5

No. of Credits: 5

Max. Marks:100

**2. Course Objective:**

- To familiarize the student with accounting principles, to impart them the conceptual knowledge of fundamentals of accounting.

**3. Course Outcomes:**

After completion of the course, the student will be able:

CO1: To recall the basic accounting principles and to define GST.

CO2: To classify various subsidiary books, identify different types of errors while preparing books of accounts, analyse and rectify the error.

CO3: To analyse the importance of Bank Reconciliation Statement and the reasons for the difference between cash book and pass book balances.

CO4: To analyse the reasons for depreciation and prepare asset accounts under various methods.

CO5: To prepare the financial statements of a Sole Trader.

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## 1. Course Content

### **MODULE I - INTRODUCTION TO PRINCIPLES OF ACCOUNTING (15 Hrs)**

Meaning and objectives of Accounting- Need – Scope – Accounting as a measurement of discipline- Accounting as an information system – Differences between Book keeping & Accounting – Accounting as an Art and Science - Advantages and limitation – Double entry and single entry system - Accounting terminology – Accounting Concepts and Conventions - Accounting equation (Simple numericals)- Basic accounting procedure - Source documents - Rules of debit and credit – Journal –Steps in Journalizing - Advantages and limitations of Journalizing Goods and Service Tax (GST): Administration of GST in India, CGST, SGST and IGST, Reverse Charge – Features, Advantages, Disadvantages of GST – Accounting treatment of GST – Goods and Services exempted from GST (A few basic GST entries) - Ledger - Posting into ledger – Balancing of accounts – Preparation of trial balance (numericals)- Computerization of accounts – Role of computers in Accounting – Advantages and limitations. (Theory and numericals)

### **MODULE II - SUBSIDIARY BOOKS & RECTIFICATION OF ERRORS (15 Hrs)**

Subsidiary Books: Subdivision of the journal – Subsidiary books: Introduction – Reasons for maintaining subsidiary books- Classification of subsidiary books - Cash book- Two-column and Three column cash book (Theory and numericals)- Petty cash book – Purchases book – Sales book – Purchases Returns book – Sales Returns book – Bills Receivable book – Bills Payable book - Debit note and credit note– Journal Proper (Theory Only)

Rectification of Errors: Introduction – Meaning and need - Objectives of rectification - Types of errors - Rectification of errors – Errors affecting in one account – Errors affecting two or more accounts – Rectification before preparation of final accounts - Suspense a/c - Rectification of errors after final accounts – Effect on Net Profit and Balance Sheet (Theory and numericals)

### **MODULE III - BANK RECONCILIATION STATEMENTS (15 Hrs)**

Introduction to Bank Reconciliation Statement- Definition of Bank Reconciliation Statement- Advantages of Bank Reconciliation Statement – Need of Bank Reconciliation Statement – Reasons for difference between cash book and pass book balances – numerical application of favorable and overdraft balances – Ascertainment of correct cash book balance. (Theory and numericals)

### **MODULE IV- DEPRECIATION (15 Hrs)**

Depreciation: Meaning - Need – Ind AS 16 (only basics related to Depreciation)- Definition - Causes of depreciation - Factors affecting depreciation - Obsolescence, Depletion, Amortization (only theory) - Methods of providing depreciation: Straight line method - Written down value method-Annuity method - Sinking fund method-other methods(only theory) (numericals excluding change in method of depreciation)

**MODULE V - FINAL ACCOUNTS OF SOLE TRADER****(15 Hrs)**

Meaning of Final accounts – Concept of Capital and Revenue – Distinction between Capital and Revenue Expenditure – Deferred revenue expenditure – Capital and Revenue Receipts – Capitalized expenditures – Capital and Revenue Losses – Capital and Revenue payments – Debit and Credit balances in Trial Balance - Trading account - Manufacturing account- Profit & Loss account - Balance Sheet- Arrangement of assets & liabilities in Balance Sheet - Use of adjustments in preparation of final accounts - Presentation of final accounts ( Theory and numericals)

**Lab work**

Creation of a company- accounts group- ledgers- Inventory- stock groups- Rectification of errors- preparation of Trading- P&L account- adjusting and closing entries and preparation of Balance sheet using Tally.ERP 9.0

**5. References:**

1. S.P.Jain & K.L.Narang - Financial Accounting – Kalyani Publishers
2. M.C.Shukla, T.S.Grewal & S.C.Gupta - Advanced Accounts – Vol I - S.Chand
3. R.L. Gupta & M.Radhaswamy - Advanced Accountancy – Vol I - Sultan Chand & Sons
4. P.C.Tulsian – Financial Accounting – Pearson Education India
5. S.N.Maheshwari - Advanced Accountancy Vol I – Vikas Publishing House Pvt. Ltd.
6. M. Hanif and A. Mukherjee – Financial Accounting – Mc. Graw Hill (India) private limited.

**Note: Latest editions are to be used.**

## 6. Syllabus Focus

## a) Relevance to Local, Regional, National and Global Development Needs

Local /Regional/National /Global Development Needs	Relevance
Global Development Needs	<p>Financial accounting reports the results and position of business to government, creditors, investors and external parties.</p> <p>It provides the tools and knowledge needed to manage financial resources effectively, promote transparency and accountability and support economic growth and stability.</p>

## b) Components on Skill Development/Entrepreneurship Development/Employability

SD/ED/EMP	Syllabus Content	Description of Activity
SD	Concepts of accounting	Journalizing based on the day to day transactions of business.
ED	Book- keeping	Preparation of trial balance and financial statements of a business entity with the help of given information.
EMP	Concepts to bookkeeping and computerized accounting	Lab work on computerized accounting.

## 7. Pedagogy

S. No	Student-Centric Methods Adopted	Type / Description of Activity
1.	Problem-solving	Practical Learning
2.	Quiz	Experiential Learning
3.	Group Discussion	Participative Learning
4.	Lab work	Practical Learning

## 8. Course Assessment Plan

## a) Weightage of Marks in Continuous Internal Assessments and End Semester Examination

Cos	Continuous Internal Assessments - CIA (40%)	End Semester Examination (60%)
CO1	CIA-1 (Written exam)	Written examination
CO2	CIA-1 (Written exam)	
CO3	CIA-2 Testing of concepts	
CO4	CIA-2 Assignment	
CO5		

b) End Semester Model Question Paper

FINANCIAL ACCOUNTING - I

Course Code: U26/COM/DSC/101

Credits: 5

Max Marks: 60

Time: 2Hrs

SECTION – A

I. Answer the following

(5 x 10 = 50 Marks)

1. What are Concepts & Conventions? Explain 4 concepts and 4 conventions of accounting with suitable examples.

(OR)

2. Answer the following:

(2 X 5 = 10 Marks)

- a. Show the Accounting equation of Mr A for the following transactions: Commenced Garment business with Cash Rs. 11, 00,000; Buildings Rs.10, 00,000, Furniture Rs.3,00,000 and Machinery bought on Loan Rs.5,00, 000.
  - i. Purchased goods from Mr. J - Rs.1,00,000.
  - ii. Sold a part of furniture costing Rs. 1,000 for Rs.2,500.
  - iii. An insurance premium paid in advance – Rs. 5,000

b. Prepare journal entries for the following transactions:

January 2020

- 1 Miss H commenced business with Cash Rs.5,00,000; Furniture Rs.45,000; Buildings Rs. 5,00,000;
- 4 Purchased goods from J for Rs.2,00,000 for cash.
- 15 Sold goods to Mr. S for Rs.50,000 of which Rs.20,000 was for cash and the balance on credit.
- 18 Purchased goods from Rahim Rs.10,000.
- 22 Rent paid in advance Rs.12,000.

3. Examine the following transactions carefully and prepare the cash book with cash, bank, and discount columns for the month of July 2019:

Date July 2019	Transaction	Amount ( Rs.)
1	Balance in hand: Cash	400
	Overdraft at Bank	5,000
4	Invested further capital out of which 50% is deposited into bank	10,000
6	Sold goods for cash	8,000
9	Collected from Sridhar, our debtor and allowed him to discount	7,000 100
10	Paid Jahangir, our creditor and received a discount	500 50
11	Received a cheque from Mr.X	1,000
12	Deposited Mr.X's cheque into bank	
13	The above cheque is returned dishonored	
17	Purchased goods	800
20	Purchased goods from Mr.Y	9,000

(OR)

4. Answer the following: (2 X 5 = 10 Marks)
- Explain different types of errors and how to rectify them.
  - Show how the following errors are rectified which are discovered before preparation of Trial Balance:
    - Rs. 1,000 spent for repairs of the building has been posted to Buildings a/c.
    - A sale of Rs. 730 to Manmohan has been entered in the Sales book as Rs.370.
    - Goods worth Rs.500 purchased from Kalam has been omitted to be recorded in the books.
    - Rs. 400 paid as salary to clerk has been debited to his personal account.
    - Rs. 75 discount allowed by a creditor has been debited to Discount account.

5. Prepare Bank Reconciliation Statement on the basis of the following information.

On 31<sup>st</sup> March 2017, the cash book showed a bank balance of Rs. 5700. On checking the pass book with the cash book, the following differences were found:

- i. Cheques worth Rs. 1500 were deposited in the bank on 28<sup>th</sup> March 2017, however no credit was given until 31<sup>st</sup> March 2017. On 1<sup>st</sup> April 2017, bank gave credit of Rs. 1500 and debited Rs, 500 being return of one cheque.
- ii. Issued cheque amounting to Rs. 1, 000 before 31<sup>st</sup> March of which Rs.400 have been debited in the pass book after 1<sup>st</sup> April.
- iii. There is a credit of Rs. 75 for interest in the pass book which remains to be adjusted
- iv. There is a debit of Rs. 10 in respect of bank charges in the pass book, which is not reflected in the cash book.
- v. There is a debit in the pass book on 2<sup>nd</sup> April in respect of a cheque paid in on 31<sup>st</sup> March and which has been dishonored.
- vi. There is a debit of Rs 15. In the pass book for interest on temporary O/D.
- vii. There is a debit of Rs. 400 in the pass book for interest on investment collected. This has been adjusted in the cash book.
- viii. A B/R for Rs. 700 discounted with the bank for RS 690 in February, has been dishonored as on 31<sup>st</sup> March 2017.
- ix. There is also a cheque for Rs 70, which has been debited in the bank a/c of the Cash book has been omitted to be banked.

OR

6. Answer the following:

(2 X 5 = 10 Marks)

- a. What is a Bank Reconciliation Statement and why is it prepared?
- b. Prepare Bank Reconciliation Statement of Santosh as on 31-3-2022

Balance as per Cash Book	Rs. 3,000
(i) Cheques issued but not presented at bank	400
(ii) Interest credited in Pass Book Only	200
(iii) Wrongly credited in Passbook	600
(iv) Cheques deposited but not collected	3,500
(v) Bank charges debited in Passbook only	80

7. A Second-hand Machinery was purchased on 1<sup>st</sup> January 2013 for Rs.30,000 and Rs.6,000 and Rs.4,000 were spent on its repairs and erection immediately. On 1<sup>st</sup> July 2014 another machinery was purchased for Rs.26,000 and on 1<sup>st</sup> July, 2015 the first machinery having become obsolete was auctioned for Rs.30,000. On the same date another was purchased

for Rs.25,000. Depreciation was provided on machinery at the rate of 10% on the original cost annually on 31<sup>st</sup> December. Prepare Machinery Account for all three calendar years.

(OR)

8. Answer the following: (2 X 5 = 10 Marks)
- Define Depreciation and explain the reasons for depreciation.
  - Prepare the specimen journal entries under the Sinking Fund method of Depreciation for the first year, second year, and last year.
9. The following is the trial balance of Mr. Shyam as on 31-3-2020. You are required to prepare Trading, P&L A/C for the year ended and also to show the Balance Sheet as on that date after taking into consideration the additional information:

Particulars	Debit (Rs.)	Particulars	Credit (Rs.)
Opening stock	10,000	Capital	25,000
Purchases	29,000	Sundry creditors	14,500
Returns inwards	5,000	Outstanding wages	1,000
Carriage inwards	500	Bank loan	25,000
Carriage outwards	300	Sales	1,60,000
Wages	5,000	Purchase returns	1,000
Insurance	50	Provision for bad debts	350
Salaries	12,000	Commission received	1,000
Administrative expenses	1,000		
Depreciation	1,500		
Buildings	1,00,000		
Furniture	6,000		
Machinery	25,000		
Bank	20,000		
Cash	1,500		
Bad debts	500		
Sundry debtors	10,500		
	<b>2,27,850</b>		<b>2,27,850</b>

Additional information:

- Closing stock is valued at Rs.15,000.
- Salaries are outstanding to the extent of Rs.400.

- iii. Provision for bad debts is to be maintained at Rs.500 on Debtors.  
iv. Insurance Rs.20 is paid in advance.

(OR)

10. Answer the following:

(2 X 5 = 10 Marks)

- a. 'Balance Sheet is not an account, it is only the list of balances'. Justify.  
b. Find out Gross Profit from the following figures:

Particulars	Rs.	Particulars	Rs.
Opening stock	10,000	Sales	5,30,000
Purchases	3,20,000	Salaries	50,000
Wages	15,000	Closing stock	60,000
Carriage on purchases	20,000	Returns inwards	8,000
Carriage on sales	12,000	Returns outwards	8,000

## SECTION - B

## II. Answer any five the following

(5 x 2= 10 Marks)

11. What is Goods and Service Tax? List out any three goods and/or services exempt from levy of GST.  
12. List out the subsidiary books of accounts.  
13. Explain any 4 reasons for differences in balances of cash book and pass book.  
14. Cost of asset = Rs. 11,000; Expected scrap value at the end of its life = Rs.1,000; expected life of asset = 10 years; what is the amount of annual depreciation under straight line method.  
15. Ascertain the cost of goods sold from the following figures:

Particulars	Rs.	Particulars	Rs.
Opening stock	30,000	Closing stock	50,000
Purchases	5,10,000	Office expenses	40,000
Returns outward	10,000	Sales	7,00,000
Direct expenses	20,000		

16. Explain Dual aspect Concept and Principle of Consistency.  
17. Explain the difference between a sales account and sales book.

## c) Question Paper Blueprint

Modules	Hours Allotted in the Syllabus	COs Addressed	Section A (No. of Questions)	Total Marks	Section B (No. of Questions) (Choice 5/7)	Total Marks
1	15	CO-1	2	10	2	2
2	15	CO-2	2	10	2	2
3	15	CO-3	2	10	1	2
4	15	CO-4	2	10	1	2
5	15	CO-5	2	10	1	2

## d) Paper setting guidelines as per Blooms Taxonomy

SECTION A - INTERNAL CHOICE				5 Q X 10 M = 50
M				
Question Number	Question	Question	CO	BTL(Blooms Taxonomy Level)
1	Module 1	What ....	CO 1	I (Remembering)
2	Module 1	a) Show....	CO 1	II (Understanding )
		b) Prepare....		VI Creating
3	Module 2	Examine.....	CO 2	IV Analysing
4	Module 2	a) Explain....	CO 2	V (Evaluating)
		b) Show ....		I (Remembering)
5	Module 3	Prepare....	CO 3	VI (Creating)
6	Module 3	a) What ....	CO 3	I (Remembering)

		b) Prepare....		VI (Creating)
7	Module 4	Prepare...	CO 4	VI (Creating)
8	Module 4	a) Distinguish....	CO 4	IV (Analysing)
		b) Prepare....		VI (Creating)
9	Module 5	Prepare....	CO 5	VI (Creating)
10	Module 5	a) Justify....	CO 5	IV (Analysing)
		b) Find ....		I (Remembering)
<b>SECTION B - ANSWER ANY 5 OUT OF 7</b>			<b>5 Q X 2 M = 10</b>	
<b>M</b>				
11	Module 1	What ...	CO 1	I (Remembering)
12	Module 2	List t...	CO 2	I (Remembering)
13	Module 3	Explain....	CO 3	II (Understanding )
14	Module 4	What ...	CO 4	I (Remembering)
15	Module 5	Ascertain...	CO 5	Applying-3
16	Any Module		Applicable CO	
17	Any Module		Applicable CO	

## 9. CO - PO Mapping:

CO	PO	Cognitive Level	Classroom Sessions (Hrs)
1	1	Knowledge	15
2	1	Analysis	15
3	1	Analysis	15
4	1	Analysis	15
5	1	Create	15

Prepared by Course Teacher [Name & Signature]	Checked & Verified by HoD / Programme Coordinator [Name & Signature]	Approved by the Principal
<p><i>Vanisree Talluri</i> Dr Vanisree Talluri</p> <p><i>S. Singam</i> Dr Sunitha Singam</p> <p><i>Vijaya</i> Ms K Vijaya Kumari</p>	<p><i>Santhas</i> Dr Savitha Sukumar</p>	<p><i>Uma Joseph</i> Prof. Uma Joseph</p>

**SEMESTER - I****BUSINESS ORGANISATION AND MANAGEMENT****1. Course Description**

Programme: B.COM (A&amp;F, IB, H, CAP, IPP)

Course Code: U26/COM/DSC/102

Course Type: MJR

No. of credits: 5

Max. Hours: 75

Hours per week: 5

Max. Marks: 100

**2. Course Objectives**

- To outline concepts and forms of business organisation
- To discuss the functions of management

**3. Course Outcomes**

After the successful completion of the course, the student will be able to:

CO1: Recall the basic concepts and forms of business organisation

CO2: Describe the nature of management

CO3: Explain the meaning, importance and process of planning, organising and decision making functions of management

CO4: Analyse the significance of staffing, delegation and decentralisation

CO5: Assess the role of motivation, leadership, communication, coordination and control in effective functioning of the organisation

**4. Course Content****MODULE I: FUNDAMENTAL CONCEPTS AND FORMS OF ORGANISATION**

(15 Hrs)

Concepts: Business, Trade, industry & commerce - Features - Relationship between trade industry and commerce – Functions of business - Difference between business /profession/employment - Stake holders theory.

Overview of Forms of Business Organization: Meaning and characteristics of - Sole Proprietorship, Partnership, Joint Hindu Family Business - Joint Stock Company - LLP - Start-ups – Digital Era Business Models –E-Commerce-Aggregator platforms - MSMEs -Importance- classification

**MODULE II: NATURE OF MANAGEMENT****(15 Hrs)**

Definition – Management an Art, Science or Profession – Manager Defined – Manager vs Leader - Levels of Management – Skills of Management – Functions of Management  
Management Thought: Contributions of Henry Fayol (14 principles) – F. W. Taylor’s Scientific Management – Max Weber’s theory of Bureaucracy – Systems Theory – Contingency Theory

**MODULE III: PLANNING, ORGANISING AND DECISION MAKING (15 Hrs)**

Planning: Definition - Importance - Steps in planning – limitations - Types of Plans: Policies, Procedures, Methods, Rules

Organization Structure: meaning, nature, need and significance – Organization charts: meaning, types, uses – Formal and informal Organization: meaning and difference between formal and informal organization.

Decision making: Definition – Process – types of decisions: – Programmed and non-programmed decisions – Strategic and routine decisions- major and minor decisions – Individual and group decisions.

**MODULE IV: STAFFING, DELEGATION AND DECENTRALIZATION (15 Hrs)**

Staffing: Meaning, importance, steps involved in staffing function – overview of: manpower planning, recruitment, selection, work force Management, training and development, performance appraisal, compensation, promotion

Groups - Types of Groups, Teams -Types of teams

Delegation of authority: Meaning – advantages and disadvantages

Decentralization: Meaning – advantages and disadvantages

**MODULE V: DIRECTING, CO-ORDINATION AND CONTROL****(15 Hrs)**

Motivation: Definition – Meaning-Types-Theories of motivation: The Need Hierarchy Theory – Hygiene approach to motivation.

Leadership: Definition - Leadership styles: Autocratic, Democratic, Free Reign – EQ- Transformational leadership – Servant leadership - Remote Leadership-Managerial Grid.

Communication: Definition – Importance – Process – Barriers to effective communication.

Coordination- Definition –need -Difficulties-Effectiveness

Control -Definition –Control process -Essential of good control system-merits and demerits

## References:

1. Y.K. Bhushan - Business organization and management - Sultan Chand
2. R.K. Sharma and Shashi k Gupta : Industrial Organisation and Management - Kalyani Publications
3. Sherlekar - Business Organisation and Management - Himalaya Publishers
4. C.B. Gupta- Industrial Organisation and Management - Sultan Chand
5. Harold Koontz Heinz Wehrich and A. Ramachandra Aryasri : Principles of management, McgrawHill
6. C.B. Gupta- Management Theory and practice,- Sultan Chand
7. L.M. Prasad - Principles & Practice of Management, Sultan Chand
8. Stephens Robbins-Management, Pearson Education
9. V.S.P. Rao - Management Excel Books India
10. Peter Drucker Practice of Management
11. Stephen Robbins -Management

**6. Syllabus Focus**

- a) Relevance to Local , Regional , National and Global Development Needs

<b>Local /Regional/National /Global Development Needs</b>	<b>Relevance</b>
National	Knowledge of various forms of business organisations and the managerial functions contributes to the efficient operation of the businesses, thereby enhancing the likelihood of successful outcomes

## b) Components on Skill Development/Entrepreneurship Development/Employability

<b>SD/ED/EMP</b>	<b>Syllabus Content</b>	<b>Description of Activity</b>
EMP	Module III, V	Knowledge sharing through business case discussions and group presentations on the topics related to planning, decision making, motivation, communication and leadership

## 7.Pedagogy

<b>S. No</b>	<b>Student-Centric Methods Adopted</b>	<b>Type/Description of Activity</b>
1.	Problem solving	Case Studies
2.	Participative Learning	Group Presentations
3	Gamified Pedagogy	Management Simulation and Shark tank

**8. Course Assessment Plan****a) Weightage of Marks in Continuous Internal Assessments and End Semester Examination**

COs	Continuous Internal Assessments - CIA (40%)	End Semester Examination - (60%)
CO1	CIA-1 Written Exam	Written Exam
CO2	CIA-1 Written Exam	
CO3	CIA-2 Mini Project	
CO4		
CO5	CIA-2 Group Presentations	

**b) Model Question Paper – End Semester Exam****BUSINESS ORGANISATION AND MANAGEMENT**

Course Code: U26/COM/DSC/102

No. of credits: 5

Max. Marks: 60

Time: 2 Hrs

**SECTION - A****I. Answer the following questions****5 x 10 = 50 M**

1. Describe various functions of Business

OR

2. Spell out the different digital business models.

3. What can you say about 'Management – an Art, Science or Profession'?

OR

4. How can you explain 14 principles given by Henry Fayol?

5 Define Planning. Explain importance and steps in Planning.

OR

6. How would you describe the types of decisions?

7. What are the steps involved in Staffing function?

OR

8. Why do you think delegation of authority is important?

9. How can you assess the importance of various leadership styles?

OR

10. Explain the essentials for good control system

### **Section - B**

**II. Answer any five of the following**

**5 x 2 = 10 M**

11. Describe the features of business.

12. Describe nature of management.

13. Explain importance of planning.

14. Assess the benefits of decentralisation in managerial decision-making.

15. Examine the components of the communication process

16. Explain the managerial grid.

17. Analyse vertical and horizontal organisation charts.

## c) Question Paper Blueprint

<b>Modules</b>	<b>Hours Allotted in the Syllabus</b>	<b>COs Addressed</b>	<b>Section A (No. of Questions)</b>	<b>Total Marks</b>	<b>Section B (No. of Questions)</b>	<b>Total Marks</b>
1	15	CO-1	2	10	1	2
2	15	CO-2	2	10	1	2
3	15	CO-3	2	10	2	2
4	15	CO-4	2	10	1	2
5	15	CO-5	2	10	2	2

## d) Paper setting guidelines as per Blooms Taxonomy

<b>SECTION A - INTERNAL CHOICE</b>				<b>5 Q x 10 M = 50 M</b>
<b>Question Number</b>	<b>Question</b>	<b>Question</b>	<b>CO</b>	<b>BTL(Blooms Taxonomy Level)</b>
1	Module 1	Describe	CO 1	I (Remembering)
2	Module 1	Spell	CO 1	I (Remembering)
3	Module 2	Explain	CO 2	II (Understanding)
4	Module 2	Explain	CO 2	II (Understanding)
5	Module 3	Summarise	CO 3	II (Understanding)
6	Module 3	Describe	CO 3	II (Understanding)
7	Module 4	List	CO 4	IV (Analysing)
8	Module 4	Analyse	CO 4	IV (Analysing)
9	Module 5	Assess	CO 5	V (Evaluating)
10	Module 5	Explain	CO 5	V(Evaluating)
<b>SECTION B - ANSWER ANY 5 OUT OF 7</b>				<b>5 Q x 2 M = 10 M</b>
<b>(To compulsorily have ONE question from each module)</b>				
11	Module 1	Describe	CO 1	I (Remembering)

12	Module 2	Describe	CO 2	II (Understanding)
13	Module 3	Explain	CO 3	II(Understanding)
14	Module 4	Assess	CO 5	V(Evaluating)
15	Module 5	Examine	CO 5	V(Evaluating)
16	Any Module		CO	
17	Any Module		CO	

### 9. CO - PO Mapping:

CO	PO	Cognitive Level	Classroom sessions (hrs)
1	1	Remembering	15
2	1	Understanding	15
3	2	Understanding	15
4	4	Analysing	15
5	6	Evaluate	15

Prepared by Course Teachers	Checked & Verified by HOD	Approved by Principal
Ms. Deepa James <i>Deep</i> Dr G.V.Sharada <i>Sharada</i> Ms. Madhura Ayachit <i>[Signature]</i> Mr Vamshi Allen <i>[Signature]</i>	<i>Savitha</i> Dr Savitha Sukumar	<i>[Signature]</i> Prof. Uma Joseph

**SEMESTER – I**

**BUSINESS ECONOMICS**

**1. Course Description**

Program me: B. Com (A&F, H, IPP)

Max. Hours : 75

Course Code: U26/COM/DSC/103

Hours per week: 5

Course Type: MJR

Max. Marks :100

No. of credits: 5

**2. Course Objectives**

- To provide a foundation of the economic analysis of business problems
- To focus on the determination of market prices in production and consumption, demand, supply, production theory, cost concepts & pricing in different markets

**3. Course Outcomes**

After the completion of the course, the student will be able to:

- CO1: Describe Fundamental concepts in Business Economics
- CO2: Interpret the concepts of Demand and Supply in relation to Business
- CO3: Summarize the role of Utility Analysis & Indifference Curves in helping to achieve Consumer Equilibrium
- CO4: Demonstrate the concepts of Production & Cost with reference to business firms
- CO5: Classification of Pricing in different market conditions

**4. Course Content****MODULE I: INTRODUCTION****(15 Hrs)**

Economics -Introduction, Definition and Scope of Economics - Methods of economics – Deductive method- Concept, merits and demerits; Inductive method – Concept, merits and demerits. Business Economics – Concept- Characteristics- Scope-Significance of Business Economics---Uses, objectives of Business Economics - Role & Responsibilities of a Business Economist – Components of Macro Environment - Overview of Inflation, GDP, Fiscal and Monetary Policy.

**MODULE II: THEORY OF DEMAND AND SUPPLY****(15 Hrs)**

Demand- Concept, Determinants, Function, types, Law of Demand- demand schedule, demand curve, reasons for downward slope of demand curve, Exceptions to the law of demand, Changes in demand, Demand Forecasting – Concept & significance - Price Elasticity of demand- Concept, Degrees, factors affecting price elasticity of demand- importance -Income Elasticity- Definition, types, importance. Cross elasticity- concept, degrees, (numerical application of elasticity of demand)  
Supply: Concept, Law of Supply, Determinants of Supply and Elasticity of Supply

**MODULE III: UTILITY ANALYSIS****(15 Hrs)**

Cardinal utility Analysis- concept, assumptions. Law of Diminishing Marginal Utility, Critical analysis, Law of Equi-marginal Utility. Indifference Curve Analysis- Indifference curve, Properties of indifference curves, Indifference Map- Marginal rate of Substitution. Consumer's Equilibrium through indifference curve analysis. Price Effect, Income Effect and Substitution Effect.

**MODULE IV: PRODUCTION AND COST****(15 Hrs)**

Production- Meaning, Factors of production- Production function- Law of Variable Proportions – Law of Returns to Scale. - Producer's Equilibrium. - Isoquants- Concept, Isoquant Map, Marginal Rate of Technical Substitution, Properties of Isoquants, and Isocost lines, Optimal Input Combination, Expansion path, Economies of Scale  
Cost concepts-Opportunity cost-Fixed cost, Variable cost, Total Average and Marginal Cost, Historical and Future Cost- Cost Function- Cost and output Relationship-Short run and long run- .Break Even Analysis-meaning and numerical applications.

**MODULE V: PRICING UNDER DIFFERENT MARKETS****(15 Hrs)**

Firm- Concept, Types of Market Structures-Perfect Competition – Meaning, Characteristics, Price and output determination of firm and industry. Monopoly- Meaning, Features, Price and output determination in the short run and long run. Oligopoly – Definition, Characteristics - Price Rigidity -Kinked demand curve- Introduction to Game Theory (Prisoner’s Dilemma) - Monopolistic Competition- Definition, Features, Price and Output determination in the short run and long run – Pricing strategies – Price Skimming, Penetration Pricing and Dynamic Pricing used by modern tech firms

**5. REFERENCES:**

1. P N Chopra, Business Economics, Kalyani Publications.
2. P.L. Mehta, Managerial Economics, Sultan Chand & Sons
3. D.M. Mithani,,Managerial Economics Theory and Applications,,Himalaya Publishing House
4. Mithani & Murthy, Business Economics, Himalaya Publishing House
5. M L Jhingan, Micro Economic Theory 2014, Vrinda Publications.
6. Ahuja, A.L, Advanced Economic theory 2014, S. Chand and company Ltd.
7. A Koutsoyiannis, Modern Micro Economics 2003, Palgrave Macmillan U.K
8. H S Agarwal, Principles of Economics 2013, Global Professional Publishing Ltd.  
(latest editions to be used)
9. Mankiw’s “Principles of Economics” by Cengage Learning
10. Craig Peterson, Business Economics, Pearson Education.

**6. Syllabus Focus****a) Relevance to Local/ Regional National/ Global Development needs**

<b>Local/ Regional/ National/ Global Development needs</b>	<b>Relevance</b>
National Development needs	By providing a foundation of the economic analysis of business problems and throwing light on the determination of market prices in production and consumption, demand, supply, production theory, cost concepts & pricing in different markets critical thinking and application skills of students can be enhanced which will go a long way in promoting their overall welfare and their contribution to the economy in general.

**b) Components of Skill Development/ Entrepreneurship Development/ Employability**

SD/ED/EMP	Syllabus Content	Description of Activity
SD	Modules II,III,IV,V	Diagrammatic representation and problem solving of vital economic concepts
EMP	Modules I,II,III,IV,V	By doing Case Studies and problems students can increase their analytical and decision making skills which goes a long way in enhancing their job prospects

**7. Pedagogy**

S. No	Student Centric Methods Adopted	Type / Description of Activity
1.	Experiential learning	Problem solving
2.	Participative learning	Group Discussion & Presentation
3.	Participative Learning	Contemporary Case Studies

**8. Course Assessment Plan****a) Weightage of Marks in Continuous Internal Assessments and End Semester Examination**

COs	Continuous Internal Assessments - CIA (40%)	End Semester Examination - (60%)
CO1	CIA-2-Assignment	Written exam
CO2	CIA-1-Written Exam	
CO3	CIA-1 Written Exam	
CO4	CIA-2 -Concept based Testing	
CO5		

**b) Model Question Paper-End Semester Exam****BUSINESS ECONOMICS**

Course Code: U26/COM/DSC/103  
Credits:5

Max Marks: 60  
Time: 2 Hrs

**SECTION – A****I. Answer the following****5 \*10= 50 M**

- 1) Describe the concept, features, significance of Business Economics?  
OR
- 2) Discuss Deductive and Inductive Methods of Economics?
- 3) Explain the Law of Demand and its exceptions?  
OR
- 4) Describe Cross Elasticity of Demand in detail with a suitable diagram?
- 5) Describe the Law of Equi Marginal Utility in detail.  
OR
- 6) Explain as to how a Consumer attains Equilibrium using Indifference curve analysis ?

7) Illustrate the Law of Variable Proportions with a suitable diagram .

OR

8) Demonstrate the application of short run and long run Average Cost Curves in Business Economics ?

9) Analyze the process of Price and Output determination in Monopolistic Competition in detail

OR

10) Examine the concept of Price Rigidity in Oligopoly using Kinked Demand Curves

### SECTION – B

II. Answer Any 5 of the following:  
5x2=10 M

- 11) Discuss any 2 functions of a Business Economist.
- 12) Explain the determinants of Supply?
- 13) Describe about Indifference Map in brief?
- 14) If FC =Rs.60000 and P/V Ratio is 40% calculate BEP in value?
- 15) Analyse the features of Monopoly?
- 16) If FC=Rs.20000 ,S.P per unit=Rs.30 and V.C per unit=Rs 20 calculate BEP in units?
- 17) What are the uses of Economies of Scale?

### c) Question Paper Blueprint

Modules	Hours Allotted	COs Addressed	Section A (No. of Questions )	Total Marks	Section B (No. of Questions )	Total Marks
1	15	CO-1	2	10	1	2
2	15	CO-2	2	10	1	2
3	15	CO-3	2	10	1	2
4	15	CO-4	2	10	3	2
5	15	CO-5	2	10	1	2

## d) Paper setting guidelines as per Blooms Taxonomy

<b>SECTION A - INTERNAL CHOICE</b>				<b>5 x 10 = 50 M</b>
<b>Question Number</b>	<b>Question</b>	<b>Question</b>	<b>CO</b>	<b>BTL(Blooms Taxonomy Level)</b>
1	Module 1	Describe	CO 1	II (Understanding)
2	Module 1	Discuss	CO 1	II (Understanding)
3	Module 2	Explain	CO 2	II (Understanding)
4	Module 2	Describe	CO 2	II (Understanding)
5	Module 3	Describe	CO 3	II (Understanding)
6	Module 3	Explain	CO 3	II (Understanding)
7	Module 4	Illustrate	CO 4	III(Applying)
8	Module 4	Demonstrate	CO 4	III(Applying)
9	Module 5	Analyse	CO 5	IV(Analysing)
10	Module 5	Examine	CO 5	IV(Analysing)
<b>SECTION B - ANSWER ANY 5 OUT OF 7 ( To compulsorily have ONE question from each module)</b>				<b>5 Q X 2 M = 10 M</b>
11	Module 1	Discuss	CO 1	II (Understanding)
12	Module 2	Explain	CO 2	II(Understanding)
13	Module 3	Describe	CO 3	II (Understanding)
14	Module 4	Calculate	CO 4	III(Applying)
15	Module 5	Analyse	CO 5	IV(Analyzing)
16	Any Module		Applicable CO	
17	Any Module		Applicable CO	

**9. CO - PO Mapping**

CO	PO	Cognitive Level	Classroom sessions (hrs)
1	1	Understanding	15
2	2	Understanding	15
3	2	Understanding	15
4	4	Applying	15
5	5	Analyzing	15

Prepared by Course Teacher	Checked & Verified by HoD / Programme Coordinator	Approved by the Principal
Dr.Shiny Ms.Latha.G <i>Latha</i> Ms. Madhura Ayachit <i>Madhura</i>	Dr. Savitha Sukumar	<i>[Signature]</i> Prof. Uma Joseph

SEMESTER –I

BUSINESS MATHEMATICS

**1. Course Description**

Programme: B.COM (IPP)

Course Code: U26/CIP/DSC/101

Course Type: MJR

No. of credits: 5

Max. Hours: 75

Hours per week: 5

Max. Marks: 100

**2. Course Objectives:**

Enable students to utilize core mathematical tools-including arithmetic and algebra-to interpret and address quantitative challenges in business environments.

**3. Course Outcomes:**

After the completion of the course, the student will be able to:

- CO 1: Explain the fundamental laws of Indices and simplify algebraic expressions using these laws.
- CO 2: Apply the formulas of Arithmetic and Geometric Progressions to compute  $n$ th terms and series sums.
- CO 3: Analyze quadratic equations to determine the nature of their roots using the discriminant.
- CO 4: Examine functions to determine their continuity and differentiability at specific points.
- CO 5: Evaluate pricing and revenue strategies by investigating price elasticity of demand derived through differentiation.

4. Course Content

**MODULE I:**

**(17 Hours)**

**INDICES**

Introduction to Numbers and Laws of indices.

**PROGRESSIONS**

Arithmetic Progression, Geometric Progression.

**THEORY OF PROBABILITY**

Introduction, Definition, Events, Addition Theorem of Probability, Multiplication Theorem of Probability.

**Pages: 1-10, 33 – 60, 105-112, 142-156**

**Module II:**

**(13 Hours)**

**LINEAR AND QUADRATIC EQUATIONS**

Definition, Solution of the equation, Nature of roots of quadratic equations, Simultaneous linear equations, Simultaneous linear equations in three unknowns, Simultaneous quadratic equations in three unknowns.

**Pages: 11-32**

**Module III:**

**(15 Hours)**

**PERMUTATIONS AND COMBINATIONS**

Definition, The Fundamental Principle, Combinations.

**SET THEORY**

Set, Subsets, Operations on Sets, Venn Diagram, Some Properties of Operations (No proofs).

**Pages: 68 -86, 113 – 138**

**Module IV:**

**VARIABLES, FUNCTIONS & LIMITS**

**(15 Hours)**

Object of Differential Calculus, Types of Function, Limit, Four important Limits, Some important theorems about Limits.

**DIFFERENTIATION**

Increments, The Differential Coefficient, The Differential Coefficient of the Sum (or difference) of the two functions, The Differential Coefficient of the product and quotient of the two functions, Differential Coefficient of the function of a function, Parametric Equations, Maxima and Minima (Excluding Inverse Trigonometry and proofs)

Pages: 241-278

**Module V:****(15 Hours)****APPLICATIONS OF DIFFERENTIAL CALCULUS**

Definition of some functions in Economics, Average cost and Marginal cost, Average revenue and Marginal revenue, Consumption function, MPC and MPS, Rate of growth, Maxima and minima, Elasticity of demand, relation between marginal revenue, average revenue and Elasticity of demand.

Sections: 3.1 -3.4, 3.6 -3.8, 3.10-3.12

Pg. no's 110 -114, 117-121, 122-131, 132-140

**5. References:**

1. C.A Foundation Course Mathematics P.N. Arora and S. Arora, Chand Series (7<sup>th</sup> Edition, 2003).
2. Basic Mathematics S.K. Mittal, Pragathi Prakashan, 12 Edition, 2019

**6. Syllabus Focus****a) Relevance to Local, Regional, National and Global Development Needs**

Local /Regional/National /Global Development Needs	Relevance
National/Global Development Needs	Business mathematics forms a strong foundation for various analytical and decision-making processes across different functional areas, helping organizations improve efficiency, increase profitability, and enhance

	competitiveness in the marketplace.
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**b) Components on Skill Development/Entrepreneurship Development/Employability**

SD/ED/EMP	Syllabus Content	Description of Activity
Skill Development	Module II	Plotting a graph using SageMaths Software
Employability	Modules IV, V	Assignments help students develop analytical and decision-making skills, which significantly contribute to improving their job prospects.

**7. Pedagogy**

S. No	Student Centric Methods Adopted	Type / Description of Activity
1.	Participative Learning	Presentations
2.	Experiential Learning	Quiz
3.	Problem solving	Assignments

## 8. Course Assessment Plan

## a) Weightage of Marks in Continuous Internal Assessments and End Semester Examination

CO	Continuous Internal Assessments CIA -40%	End Semester Examination-60%
CO1	CIA-1 (Written Exam)	Written exam
CO2	CIA-1 (Written Exam)	
CO3	CIA-2 (Skill Tests)	
CO4	CIA-2 (Assignments)	
CO5	CIA-2 (Assignments)	

## b) Model Question Paper- End Semester Exam

## BUSINESS MATHEMATICS

Course code: U26/CIP/ DSC /101

Max. Marks: 60

No. of credits: 5

Time: 2 Hrs

## SECTION-A

I. Answer the following

5 x10= 50 M

1. (i) Simplify  $\left(\frac{a^p}{a^q}\right)^{p+q} \div \left(\frac{a^{p+q}}{a^{p-q}}\right)^{p^2/q}$ .

(ii) In a single throw with two dice, what is the probability of obtaining 9?

OR

2. Find the sum of the series  $3+33+333+3333+\dots$  to  $n$  terms.

3. Solve the following quadratic equation by factorization method  $x^2 + 16x + 60 = 0$ .

OR

4. Solve graphically the following systems of linear equations:  $3x - 7y + 10 = 0$ ,  $2x - y + 3 = 0$ .

5. If  $A = \{1,2,3,4\}$ ,  $B = \{2,4,6,8\}$ ,  $C = \{3,4,5,6\}$  find  $A \cup B$ ,  $B - C$ ,  $A \cap C$

OR

6. (i) If  $n_p = 240$ , and  $n_c = 120$ . Find  $n$  and  $r$ .

(4 marks)

(ii) From 6 gentlemen and 4 ladies a committee of 5 is to be formed. In how many ways can this be done (i) so as to include at least one lady (ii) consisting 3 men and 2 ladies.

7. Differentiate the following function w.r.t. 'x'

$$e^x(x-1) / (x+1).$$

OR

8. Find  $\frac{dy}{dx}$  if (i)  $x = a \cos^3 t$  and  $y = a \sin^3 t$ . (ii)  $y^2 = 4ax$ .

9. Find the elasticity of demand with respect to the price at the point  $P=5$  for the demand law  $x = \frac{7}{p-2}$ .

OR

10. The cost function for producing  $x$  units of commodity is given by  $c(x) = \frac{x^3}{3} - 5x^2 + 75x + 10$ . At what level of output marginal cost attains its minimum? What is the marginal cost of this level of production?

### SECTION-B

II. Answer any five of the following

M

5 x 2 = 10

11. A's probability of solving a particular question is  $\frac{3}{7}$  and B's probability of solving a that question is  $\frac{7}{12}$ . If both try to solve the question, then find the probability that the question is solved.
12. Find the 7<sup>th</sup> term of  $-21, 14, -9 \frac{1}{3}, \dots$

13. Find the equation of the straight line through  $(-1, 2)$  having gradient 3.
14. Draw the Venn diagram of  $A \cap B$  where  $A = \{1, 2, 3\}$  and  $B = \{2, 3, 4\}$ .
15. Find the  $x + 2$
16. If  $x = t \log t$ ,  $y = \log t / t$ , prove that  $dy/dx = 1$ , when  $t = 1$
17. The cost 'C' of manufacturing a certain article is given by  $C = q^2 - 4q + 100$ , where 'q' is the number of articles manufactured. Find the minimum value of 'C'.

## c) Question Paper Blueprint

Modules	Hours Allotted in the Syllabus	COs Addressed	Section A (No. of Questions)	Total Marks	Section B (No. of Questions)	Total Marks
1	15	CO-1	2	10	2	2
2	15	CO-2	2	10	1	2
3	15	CO-3	2	10	1	2
4	15	CO-4	2	10	2	2
5	15	CO-5	2	10	1	2

d) Paper setting guidelines as per Blooms Taxonomy

SECTION A - INTERNAL CHOICE				5 Q X 10 M = 50 M
Question Number	Question	Question	CO	BTL (Blooms Taxonomy Level)
1	Module 1	Simplify	CO 1	IV (Analyzing)
2	Module 1	Find	CO 1	I (Remembering)
3	Module 2	Solve	CO 2	III (Applying)
4	Module 2	Solve	CO 2	III (Applying)
5	Module 3	Find	CO 3	I (Remembering)
6	Module 3	Find	CO 3	I (Remembering)
7	Module 4	Prove	CO 4	II (Understanding)
8	Module 4	Find	CO 4	I (Remembering)
9	Module 5	Find	CO 5	I (Remembering)
10	Module 5	What	CO 5	I (Remembering)

SECTION B - ANSWER ANY 5 OUT OF 7




5 X 2 M = 10 M

(To compulsorily have ONE question from each module)


11	Module 1	Solve	CO 1	III (Applying)
12	Module 1	Find	CO 1	I (Remembering)
13	Module 2	Find	CO 2	I (Remembering)
14	Module 3	Interpret	CO 3	II(Understanding)
15	Module 4	Find	CO 4	I (Remembering)
16	Module 4	Prove	CO 4	II(Understanding)
17	Module 5	Find	CO 5	I (Remembering)

## 9. CO-PO Mapping

CO	PO	Cognitive Level	Class room sessions(hours)
1	2	Understanding	15
2	2	Understanding	15
3	2	Applying	15
4	6	Analyze	15
5	5	Evaluation	15

Prepared by Course Teacher	Checked & Verified by HoD	Approved by Principal
 <b>Dr. Sr. Mary Jacintha</b>	 <b>Dr. Rekha R Jaichander</b>	 <b>Prof Uma Joseph</b>

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