

S P Mandali's  
**R. A. PODAR COLLEGE OF COMMERCE AND  
ECONOMICS (EMPOWERED AUTONOMOUS),**  
Matunga, Mumbai-400019

Syllabus  
and  
Question paper pattern  
Master of Commerce (Advanced Accountancy)

Syllabus as per National Education Policy 2020  
To be implemented from Academic Year 2026-2027

College Website: [www.rapodar.ac.in](http://www.rapodar.ac.in)

<b>PO No.</b>	<b>Programme Specific Outcome</b>
<b>PO 1</b>	Demonstrate in-depth knowledge of accounting principles, financial reporting frameworks (Ind AS/IFRS), auditing, and taxation systems.
<b>PO 2</b>	Effectively communicate complex financial information and insights to diverse stakeholders using appropriate oral and written formats.
<b>PO 3</b>	Apply critical thinking to analyze financial statements, interpret accounting standards, and evaluate regulatory frameworks.
<b>PO 4</b>	Apply accounting concepts and techniques to solve real-world financial and business problems and support decision-making.
<b>PO 5</b>	Use analytical reasoning and quantitative tools to interpret financial data, evaluate business performance, and assist in strategic planning.
<b>PO 6</b>	Conduct advanced research in accounting and finance, demonstrating skills in data collection, statistical analysis, and interpretation.
<b>PO 7</b>	Collaborate effectively in multidisciplinary teams to address complex accounting and financial challenges.
<b>PO 8</b>	Apply scientific and logical reasoning to design innovative financial models, strategies, and solutions.
<b>PO 9</b>	Engage in reflective thinking to assess personal and professional growth and identify areas for continuous improvement.
<b>PO 10</b>	Leverage digital tools and accounting software (e.g., ERP, analytics platforms) for effective financial analysis and reporting.
<b>PO 11</b>	Demonstrate initiative in self-directed learning and continuous professional development to keep pace with evolving accounting standards and practices.
<b>PO 12</b>	Exhibit sensitivity to cultural diversity and apply accounting practices in a global business environment.
<b>PO 13</b>	Adhere to ethical principles and professional standards while making financial decisions, considering societal and environmental impacts.
<b>PO 14</b>	Demonstrate leadership qualities and the ability to manage financial teams and contribute to organizational effectiveness.
<b>PO 15</b>	Adapt to emerging trends, technologies, and regulatory changes in accounting, ensuring professional competence and career readiness.

**Master of Commerce- Advanced Accountancy**

**Syllabus as per National Education Policy 2020**

***Course Structure***

**(To be implemented from Academic Year 2026-27)**

**SEMESTER I**

Master of Commerce- Advanced Accountancy							
No of Courses	Course Code	Semester I	Credits	No of Courses	Course Code	Semester II	Credits
<b>1</b>	<b>Major (8 credits)</b>			<b>1</b>	<b>Major (8 credits)</b>		
<b>1.A</b>	<b>Mandatory</b>			<b>1.A</b>	<b>Mandatory</b>		
1.A. a	PPQ101101	Strategic Management	<b>04</b>	1.A. a	PPQ102101	Business Ethics and CSR	<b>04</b>
1.A. b	PPQ101102	Advanced Cost Accounting	<b>04</b>	1.A. b	PPQ102102	Financial Management	<b>04</b>
<b>1.B</b>	<b>Major Related Elective (08) (Any Two)</b>			<b>1.B</b>	<b>Major Related Elective (08) (Any Two)</b>		
1.B. a	PPQ101103	Introduction to Financial Analytics-I	<b>04</b>	1.B. a	PPQ102103	Introduction to Financial Analytics -II	<b>04</b>
1.B. b	PPQ101104	Financial Services	<b>04</b>	1.B. b	PPQ102104	Personal Financial Planning	<b>04</b>
1.B. c	PPQ101105	Quantitative Tools for Business Decision- I	<b>04</b>	1.B. c	PPQ102105	Quantitative Tools for Business Decision- II	<b>04</b>
<b>2</b>	<b>Research Methodology (06 credits)</b>			<b>2</b>	<b>On Job Training/ Field Project (06 Credits)</b>		
2.A. a	PPQ601101	Research Methodology	<b>04</b>	2.A. a	PPQ602101	Research Project/On Job Training/ Field Project	<b>06</b>
2. A. b	PPQ601102	Research Ethics and Academic Writing	<b>02</b>				
<b>TOTAL CUMULATIVE CREDITS</b>			<b>22</b>	<b>TOTAL CUMULATIVE CREDITS</b>			<b>22</b>

**Syllabus of Master of Commerce - Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**1. Major (1.A Mandatory)**

**1.A.a Strategic Management (4 Credits)**

**Semester I**

<b>1.Major</b>	
<b>1.A Mandatory</b>	
<b>1.A.a Strategic Management</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	Understand start-up opportunities, ecosystem, and real-world functioning of new ventures
CObj 2	Generate business ideas, identify problems, and assess feasibility
CObj 3	Design basic business models and evaluate financial requirements
CObj 4	Understand funding options, legal environment, and government initiatives
CObj 5	Analyze growth, sustainability, failure, and exit strategies using case studies
<b>Course Outcomes</b>	
COout 1	Explain the concepts, process, levels, and functional dimensions of strategic management and assess its benefits and risks in organizational decision-making.
COout 2	Analyze the internal and external business environment using environmental scanning and strategic analysis tools to identify strategic issues and opportunities.
COout 3	Examine strategy implementation challenges, resource allocation issues, and strategic control mechanisms including evaluation techniques and budgetary control.
COout 4	Assess corporate restructuring, renewal strategies, and public–private participation as strategic responses to organizational and environmental changes.
COout 5	Analyze emerging strategic trends such as start-up strategies, Viksit Bharat 2047, holistic performance scorecard, Moon–Ocean strategy, and CINE Matrix in a VUCA context.

**Modules at a Glance**

<b>Strategic Management</b>		
<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Strategic Management	15
2	Strategy Formulation, Strategy analysis and corporate portfolio analysis	15
3	Strategic Implementation and Evaluation and corporate restructuring strategies	15
4	Emerging Strategic Trends	15
<b>Total No. of Lectures:</b>		<b>60</b>

<b>Sr. No.</b>	<b>Modules</b>
<b>1</b>	<b>Introduction to Strategic Management</b>
	<ul style="list-style-type: none"> <li>● Concept of Strategic Management, Strategic Management Process, Vision, Mission and Goals, Benefits and Risks of Strategic Management.</li> <li>● Levels of Strategies: Corporate, Business and Operational Level Strategy</li> <li>● Functional Strategies: Human Resource Strategy, Marketing Strategy, Financial Strategy , Operational Strategy</li> <li>● Environmental Scanning</li> </ul>
<b>2</b>	<b>Strategy Formulation, Strategy analysis and corporate portfolio analysis</b>
	<ul style="list-style-type: none"> <li>● Strategic Formulation: Stages and Importance, Formulation of Alternative Strategies: Mergers, Acquisitions, Takeovers, Joint Ventures, Diversification, Turnaround, Divestment and Liquidation.</li> <li>● Strategic Alliance: Concept and Importance</li> <li>● Strategic Analysis and Choice: Issues and Structures,</li> <li>● Corporate Portfolio Analysis- SWOT Analysis, BCG Matrix, GE Nine Cell Matrix.</li> </ul>
<b>3</b>	<b>Strategic Implementation and Evaluation and corporate restructuring strategies</b>
	<ul style="list-style-type: none"> <li>● Strategic Implementation: Steps, Importance and Problems, Resource Allocation- Importance &amp; Challenges</li> <li>● Strategic Evaluation and Control: Importance, Limitations and Techniques, Budgetary Control: Advantages, Limitations</li> <li>● Corporate Restructuring Strategies: Concept, Need and Forms, Corporate Renewal Strategies: Concept, Internal and External factors and Causes.</li> <li>● Public Private Participation: Importance and Problems</li> </ul>

4	<b>Emerging Strategic Trends</b>
	<ul style="list-style-type: none"><li>● Start-up Business Strategies. Viksit Bharat 2047: Strategic Management Perspective- Strategic Management Framework (Vision, Mission &amp; Strategic Intent), Strategic Pillars &amp; Focus Areas, Contribution in Indian economy</li><li>● Three new Dimensions- Holistic performance score card (HPC) – moon ocean strategy- CINE Matrix for VUCA Context</li><li>● Business continuity Management – Coping strategy</li><li>● Information Technology Driven Strategies: Importance, Limitations and contribution of IT sector in Indian Business</li></ul>

**Strategic Management**  
***Question Paper Pattern***  
***(Academic Year: 2026-2027)***

**Internal Examination & Semester End Examination – 100 Marks**

Case studies/Group Project/ Power Point Presentations/ Written Assignment

**Question Paper Pattern (Practical/ Theory Courses) :**

**Maximum Marks: 50**

**Questions to be set: 05**

**Durations: 02 hrs**

**All Questions are compulsory carrying 10 Marks each**

Question No	Particulars	Marks
Q1	A)Practical/ Theory Question OR B)Practical/ Theory Question	10 Marks  10 Marks
Q2	A)Practical/ Theory Question OR B)Practical/ Theory Question	10 Marks  10 Marks
Q3	A)Practical/ Theory Question OR B)Practical/ Theory Question	10 Marks  10 Marks
Q4	A)Practical/ Theory Question OR B)Practical/ Theory Question	10 Marks  10 Marks
Q5	A)Practical/ Theory Question OR B)Practical/ Theory Question	10 Marks  10 Marks

**Reference Books ( with Chapters):**

- Strategic Management, A Dynamic Perspective -Concepts and Cases – Mason A. Carpenter, Wm. Gerard Sanders, Prashant Salwan, Published by Dorling Kindersley (India) Pvt Ltd, Licensees of Pearson Education in south Asia
- Strategic Management and Competitive Advantage-Concepts- Jay B. Barney, William S. Hesterly, Published by PHI Learning Private Limited, New Delhi
- Globalization, Liberalization and Strategic Management - V. P. Michael
- Business Policy and Strategic Management – Sukul Lomash and P.K Mishra, Vikas Publishing House Pvt. Ltd, New Delhi
- Strategic Management – Fred R. David, Published by Prentice Hall International
- Business Policy and Strategic Management – Dr Azhar Kazmi, Published by Tata McGraw Hill Publications
- Business Policy and Strategic Management- Jauch Lawrence R & William Glueck Published by Tata McGraw Hill
- Public Enterprise Management and Privatization – Laxmi Narain Published by S.Chand & Company Ltd, New Delhi
- Business Organization – Rajendra P. Maheshwari, J.P. Mahajan, Published by International Book House Pvt Ltd
- Disasters and Development- Cuny Fred C, Published by Oxford University Press, Oxford
- At Risks Natural Hazards, People’s Vulnerability and Disasters- Wisner Ben P. Blaikie, T Cannon and I. Davis, Published by Wiltshire Routledge
- Mergers, Acquisitions and Corporate Restructuring – Strategies and Practices- Rabi Narayan Kar, Published by International Book House Pvt Ltd, Mumbai
- Strategic Management- Awareness and Change, John. L. Thompson, Internal Thomson Business Press
- Gaining and Sustaining Competitive Advantage, Jay B. barney, Eastern economy Edition, PHI Learning Pvt Ltd, New Delhi
- Strategic Management by Prof N.H. Mullick, Enkay Publishing House New Delhi
- Public Sector Perspective, by Dr M.Veerappa Moily The Impact of Private sector participation in Infrastructure- Lights, shadows and the Road ahead by Andres, Luis, Guasch, Luis, J. Thomas, Haven & Foster, World Bank, Washington

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**1. Major (1.A Mandatory)**

**1.A.b Advanced Cost Accounting (4 Credits)**

**Semester I**

<b>1.Major</b>	
<b>1.A Mandatory</b>	
<b>1.A.a Advanced Cost Accounting</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	To enhance the abilities of learners to develop the concept of Cost and management accounting and its significance in the business.
CObj 2	To enable the learners to understand, develop and apply the techniques of costing in the decision making in the business corporates.
CObj 3	To enable the learners in understanding, developing, preparing and presenting the financial report in the business corporates.
CObj 4	To enable learners to understand and apply emerging concepts of strategic cost management for effective cost control, value creation, and long-term competitive advantage in dynamic business environments.
<b>Course Outcomes</b>	

COut 1	Analyze the impact of using marginal costing or absorption costing on pricing decisions, product profitability, and financial reporting.
COut 2	Evaluate the advantages and limitations of marginal costing and absorption costing in various decision-making scenarios.
COut 3	Calculate and analyze variances between actual costs and standard costs. Interpret the significance of variances and take appropriate corrective actions.
COut 4	These learning outcomes aim to equip learners with the knowledge and skills required to understand and apply different costing techniques, budgetary control, and operating costing in various decision-making scenarios.

**Modules at a Glance**

<b>Advanced Cost Accounting</b>		
<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Marginal Costing, Absorption Costing and Managerial Decision Making	15
2	Standard Costing	15
3	Budgetary Control	15
4	Emerging concepts of Strategic Cost Management	15
<b>Total No. of Lectures:</b>		<b>60</b>

<b>Sr. No.</b>	<b>Modules</b>
<b>A)</b>	<b>TECHNIQUES OF COSTING</b>
<b>1</b>	<b>Marginal Costing, Absorption Costing and Managerial Decision Making</b>
	<ul style="list-style-type: none"> <li>● Problems on Breakeven Analysis, Indifference Point, Cost Volume Profit Analysis, Breakeven Charts.</li> <li>● Managerial Decision making problems such as Pricing Accepting Special Offer, Profit Planning, Make or Buy Decisions, Determining Key Factors, Determining Sales Mix, Determining Optimum Activity Level, Performance Evaluation, Alternative Methods of Production.</li> </ul>
<b>2</b>	<b>Standard Costing</b>
	<ul style="list-style-type: none"> <li>● Standard Costing as an Instrument of Cost Control and Cost Reduction.</li> <li>● Theory and Problems based on Analysis of Variances of Materials, Labour, Overheads and Sales including Sub-variances.</li> </ul>
<b>3</b>	<b>Budgetary Control</b>
	<ul style="list-style-type: none"> <li>● Budget and Budgetary Control, Zero Based Budget, Performance Budgets.</li> <li>● Functional Budgets Leading to the Preparation of Master Budgets : Sales Budget, Production Budget, Overheads budget, Administration expenses Budget, Selling &amp; Distribution expenses Budget, Capital Expenditure Budget, etc.</li> </ul>
<b>B)</b>	<b>EMERGING CONCEPTS OF STRATEGIC COST MANAGEMENT</b>
	<ul style="list-style-type: none"> <li>● ABC &amp; Target Costing</li> <li>● Life Cycle Costing</li> <li>● JIT Purchase &amp; Production</li> <li>● Benchmarking, TQM, Quality circles, Kaizen costing, Six sigma, TPM (Only Theory)</li> <li>● Note: Simple Practical questions to be asked based only ABC, Target, JIT &amp; Life cycle costing only.</li> </ul>

**Advanced Cost Accounting*****Question Paper Pattern******(Academic Year: 2026-2027)*****Internal Examination & Semester End Examination – 100  
Marks****Internal Examination – 50 Marks**

Class Test	25 marks
Project/Assignment	25 marks
Total	50 marks

**Semester End Examination (SEE) - 50 Marks**

Maximum Marks	50 marks
Number of Questions to be Set	06
Duration	02 Hours

**Note:****1. Attempt any Five questions**

<b>Question No.</b>	<b>Particulars (Nature of Questions)</b>	<b>Marks(Given)</b>	<b>Marks (To be attempted)</b>
Q1	Practical Question/s	10	10
Q2	Practical Question/s	10	10
Q3	Practical Question/s	10	10
Q 4	Practical Question/s	10	10
Q5	Case Study/Concept /Application Based Practical Questions	10	10
Q6	Concept Based Theory Questions To be given: Seven (07) To be attempted: Any Five (05)	14	10
	<b>Total</b>	<b>64</b>	<b>50</b>

**Reference Books ( with Chapters):**

Ravi M Kishore: Cost and Management accounting,  
Taxmann's Publications Debarshi Bhattacharyya, Cost and Management  
Pearson Dr. S.N. Maheswari : Management Accounting,  
Vikas Publishing S.P.JAIN, K.L.NARANG : Cost Accounting  
Kalyani Publishers Sharma and ShahiK Gupta : Management Accounting  
Kalyani Publishers. N.K. Prasad : Cost Accounting Horngren : Cost Accounting : A Managerial  
Emphasis.

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)  
1.B Major related Electives  
1.B.a: Introduction to Financial Analytics – Paper I (4 Credits)  
Semester I**

<b>1.Major</b>	
<b>1.B Major related Electives</b>	
<b>1.B.a: Introduction to Financial Analytics – Paper I</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	To introduce learners to the concepts, scope, and practical relevance of financial analytics, including its role in FinTech-driven decision making.
CObj 2	To develop learners' ability to analyse financial statements using analytical techniques and to construct basic financial models for informed financial decision-making.
CObj 3	To equip learners with forecasting skills using statistical and regression-based techniques for predicting financial performance.
CObj 4	To familiarize learners with break-even concepts and regression analysis.
<b>Course Outcomes</b>	
COut 1	Explain the fundamentals of financial analytics and apply analytical thinking to financial data using traditional financial statements and emerging FinTech tools.
COut 2	Analyse and interpret financial statements using analytical tools and develop basic financial models to support forecasting and valuation decisions.
COut 3	Apply financial forecasting techniques, including regression analysis, to estimate future financial statements and support managerial decision-making.
COut 4	Analyze cost–volume–profit relationships using break-even charts to assess business risk.

### Modules at a Glance

<b>1. Introduction to Financial Analytics- Paper-I</b>		
Sr. No.	Modules	No. of Lectures
1	Introduction to Financial Analytics	15
2	Financial Statement Analysis and Financial Modeling	15
3	Financial Forecasting	15
4	Break-Even and Regression Analysis	15
<b>Total No. of Lectures:</b>		<b>60</b>

Sr. No.	Modules
<b>1</b>	<b>Introduction to Financial Analytics</b>
	<ul style="list-style-type: none"> <li>● Meaning, Scope, and Relevance of Financial Analytics</li> <li>● Uses and features of Financial Analytics</li> <li>● Financial Statements: Balance Sheet, Income Statement, and Cash Flow Statement.</li> <li>● Emerging Trends in Financial Analytics: FinTech</li> <li>● Emerging FinTech techniques: Social trading, P2P lending, Blockchain, Algorithm trading basics</li> </ul>
<b>2</b>	<b>Financial Statement Analysis and Financial Modeling</b>
	<ul style="list-style-type: none"> <li>● Objectives and Importance of Financial Statement Analysis</li> <li>● Interrelationship of Financial Statements</li> <li>● Techniques of Financial Statement Analysis: Ratio Analysis, Common Size Statements, Trend Analysis, Comparative Financial Statements</li> <li>● Analytical Interpretation of Liquidity, Profitability, Leverage, and Efficiency Ratios</li> <li>● Introduction to Financial Modeling</li> <li>● Structure and Logic of Financial Models</li> <li>● Simple Financial Models using Income Statement, Balance Sheet, and Cash Flow Statement</li> <li>● Role of Financial Modeling in decision-making and valuation</li> </ul>

<b>3</b>	<b>Financial Forecasting</b>
	<ul style="list-style-type: none"><li>● Process of Using Financial Forecasting Techniques</li><li>● Importance of Using Financial Forecasting Tools</li><li>● Advantages of Financial Forecasting</li><li>● Disadvantages of Using Financial Forecasting Techniques</li><li>● Financial Forecasting Methods</li><li>● Forecasting Balance Sheet</li></ul>
<b>4</b>	<b>Break-Even and Regression Analysis</b>
	<ul style="list-style-type: none"><li>● Graphical Representation of the Break-Even Point</li><li>● Importance of the Break-Even Point</li><li>● Factors affecting Break-Even Point</li><li>● Regression Analysis</li><li>● Variations of Regression Analysis</li><li>● Regression Analysis in Finance</li><li>● Regression Tools</li></ul>

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**Introduction to Financial Analytics- I  
*Question Paper Pattern (Academic Year: 2026-2027)***

**Internal Examination & Semester End Examination – 100 Marks**

**Internal Examination – 50 Marks**

Class Test	25 marks
Project/Assignment	25 marks
Total	50 marks

**Semester End Examination (SEE) - 50 Marks**

Maximum Marks	50 marks
Number of Questions to be Set	06 (Six)
Duration	02 Hours

**Note:**

**1. Attempt any Five questions**

Question No.	Particulars (Nature of Questions)	Marks(Given)	Marks (To be attempted)
Q1	Practical Question/s	10	10
Q2	Practical Question/s	10	10
Q3	Practical Question/s	10	10
Q 4	Practical Question/s	10	10
Q5	Case Study/Concept /Application Based Practical Questions	10	10
Q6	Concept Based Theory Questions To be given: Seven (07) To be attempted: Any Five (05)	14	10
	<b>Total</b>	<b>64</b>	<b>50</b>

**Reference Books ( with Chapters)**

1. Financial Analytics by Pitabas Mohanty
2. Financial Statement Analysis: A Data Analytics Approach by Resutek & Richardson
3. Data Analytics in Finance by Huijian Dong
4. Financial Analysis with Microsoft Excel by Mayes & Shank
5. The Intelligent Investor by Benjamin Graham
6. Financial Shenanigans by Howard Schilit

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**1.B Major related Electives**

**1.B.b: Financial Services (4 Credits)**

**Semester I**

<b>1.Major</b>	
<b>1.B Major Related Electives</b>	
<b>1.B.b: Financial Services</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	To obtain knowledge about financial services in India as Indian Financial System, Financial Markets, Factoring , credit rating and venture capital in India and Recent Trends in Accounting and Finance.
CObj 2	To acquaint with current financial practices as well as Financial Markets.
CObj 3	To understand the Venture Capital and Securitization and Depository and Depository Core Services.
<b>Course Outcomes</b>	
COut1	Understand the role and function of the financial system in reference to the macro economy.
COut2	Demonstrate an awareness of the current structure and regulation of the Indian financial services sector.
COut3	Evaluate and create strategies to promote financial products and services.

**Modules at a Glance**

<b>1.B.b: Financial Services</b>		
<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Financial Services, Leasing and Hire Purchase	15
2	Factoring and Credit Rating	15
3	Venture Capital and Securitization	15
4	Depository and Depository Core Services	15
<b>Total No. of Lectures:</b>		<b>60</b>

<b>Sr. No.</b>	<b>Modules</b>
<b>1</b>	<b>Introduction to Financial Services, Leasing and Hire Purchase</b>
	<ul style="list-style-type: none"> <li>● Overview of Financial Services in India, Growth, Structure and Types of financial services.</li> <li>● Merchant Banking – Meaning, nature and functions; merchant banking in India, role in issue management; classification and regulation of merchant bankers by SEBI</li> </ul>
<b>2</b>	<b>Factoring and Credit Rating</b>
	<ul style="list-style-type: none"> <li>● Venture Capital: Meaning and Definition of Venture Capital, Characteristics of Venture Capital, Forms/Types of Venture Capital Assistances, Venture Capital Process.</li> <li>● Modes of Venture Capital Assistance Securitization: Introduction, Definition, Concept, Need, Players Involved in Securitization, Securitization Structure, Instruments of Securitization.</li> <li>● Differentiate between Pass Through Certificate and Pay Through Securities, Process of Securitization.</li> </ul>
<b>3</b>	<b>Venture Capital and Securitization</b>
	<ul style="list-style-type: none"> <li>● Hire Purchase Finance - meaning, concepts of hire purchase finance, installment credit and consumer credit; sources of finance in India Housing Finance – need, nature of housing finance, fixed and floating rate home loans; sources of housing finance in India, growth of housing finance in India; Role of National Housing Bank; concept of mortgage and reverse mortgage; housing loans and mortgage loans, types of mortgage loans.</li> </ul>

4	<b>Depository and Depository Core Services</b>
	<ul style="list-style-type: none"><li>• Stock Broking – meaning, types of stockbrokers, sub-brokers; stock broking in India e-broking – meaning, Indian experience Depository Services – meaning, role of depositories and their services, Advantages of depository system; Functioning of depository system; Depositories in India – NSDL &amp; CSDL; Depository participants (DPs) and their role Custodial services - meaning; obligations and responsibilities of custodians; code of conduct.</li></ul>

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**Financial Services**

***Question Paper Pattern (Academic Year: 2026-2027)***

**Internal Examination & Semester End Examination – 100 Marks**

**Internal Examination – 50 Marks**

Class Test	25 marks
Project/Assignment	25 marks
Total	50 marks

**Semester End Examination (SEE) - 50 Marks**

Maximum Marks	50 marks
Number of Questions to be Set	06 (Six)
Duration	02 Hours

**Note:**

**1. Attempt any Five questions**

Question No.	Particulars (Nature of Questions)	Marks(Given)	Marks (To be attempted)
Q1	Practical Question/s	10	10
Q2	Practical Question/s	10	10
Q3	Practical Question/s	10	10
Q 4	Practical Question/s	10	10
Q5	Case Study/Concept /Application Based Practical Questions	10	10
Q6	Concept Based Theory Questions To be given: Seven (07) To be attempted: Any Five (05)	14	10
	<b>Total</b>	<b>64</b>	<b>50</b>

**Reference Books ( with Chapters)**

- Anthony Saunders & Marcia Millon Cornett, “Financial Markets & Institutions”, TMH, 5th edition.
- Bhole. L.M. and Jitendra Mahakud “Financial Institutions & Markets – Structure, Growth & Innovations”, TMH 5th edition.
- M Y Khan, “Financial Services”, TMH, 7th edition
- Ravi M. Kishore, “Financial Management”, Taxmann’s, 6th edition.

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**1.B Major related Electives**

**1.B.c: Quantitative Tools for Business Decision- Paper I (4 Credits)**

**Semester I**

<b>1.B Major Related Electives</b>	
<b>1.B.c: Quantitative Tools for Business Decision-I</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	To develop understanding of mathematical and statistical concepts used for analyzing business and economic relationships, including matrices, calculus, and econometric models.
CObj 2	To enable application of quantitative tools such as matrix algebra, differentiation, integration, and estimation techniques in solving business problems related to cost, revenue, production, and pricing.
CObj 3	To build analytical ability to examine relationships among economic variables using regression models and optimization methods for informed decision-making.
CObj 4	To promote critical evaluation of empirical models by examining underlying assumptions, statistical properties, and limitations of estimation techniques in applied business analysis.
CObj 5	To encourage formulation and optimization of business decision models under real-world constraints by integrating mathematical, statistical, and econometric approaches.
CObj 6	To enhance interpretation and communication skills by enabling students to explain quantitative results and empirical findings in clear economic and business terms for managerial and policy-oriented decision-making.
<b>Course Outcomes</b>	
CO 1	Explain the use of matrices for representing and interpreting business data related to sales, costs, production, and budgets.
CO 2	Apply matrix operations and inverse techniques to solve cost–revenue–profit models involving pricing, output determination, and resource allocation.
CO 3	Use simultaneous linear equations, Cramer’s Rule, and matrix inverse methods to determine equilibrium price and output in multi-product firms.
CO 4	Analyze inter-industry relationships and supply chain linkages using input–output analysis and technical coefficient matrices.
CO 5	Evaluate the feasibility, consistency, and uniqueness of business decision models using rank of matrix and input–output frameworks.
CO 6	Explain the concept of marginal change and elasticity in relation to price, output, cost, and revenue in business decision-making.

<b>CO 7</b>	Apply rules of differentiation to compute marginal values and elasticity measures for pricing and demand forecasting.
<b>CO 8</b>	Determine optimal levels of output and cost using maxima and minima techniques in single-variable and multivariable business functions.
<b>CO 9</b>	Analyze cumulative business measures by deriving total cost, total revenue, and total utility functions from marginal functions using integration.
<b>CO 10</b>	Evaluate pricing outcomes by estimating consumer's surplus and producer's surplus under different market situations using integration techniques.
<b>CO 11</b>	Explain the concept of optimization in business decision-making and the role of calculus and matrix approaches under conditions of certainty.
<b>CO 12</b>	Apply first- and second-order conditions, including the Hessian matrix, to determine optimal solutions in unconstrained business optimization problems.
<b>CO 13</b>	Determine the optimal output mix and profit levels for multi-product firms producing technically related goods using profit maximization techniques.
<b>CO 14</b>	Analyze business decision problems involving constraints of budget, resources, and technology using substitution, elimination, and the method of Lagrange multipliers.
<b>CO 15</b>	Evaluate constrained optimization solutions by applying matrix-based second-order conditions and the bordered Hessian to verify cost minimization and production maximization.
<b>CO 16</b>	Demonstrate understanding of matrix operations and calculus concepts by implementing them in spreadsheet environments for economic and business analysis.
<b>CO 17</b>	Apply spreadsheet functions and formulas to perform matrix operations, calculate derivatives, elasticities, and construct input-output models.
<b>CO 18</b>	Compute and represent cost, revenue, and surplus measures using tabular and graphical spreadsheet techniques for economic interpretation.
<b>CO 19</b>	Analyze optimization problems by modeling profit maximization and cost minimization scenarios for single-product and multi-product firms using spreadsheet tools.
<b>CO 20</b>	Design and solve integrated economic decision models through spreadsheet-based mini case studies involving pricing and output decisions.

### Modules at a Glance

1.B.c: Quantitative Tools for Business Decision-I		
Sr. No.	Modules	No. of Lectures
1	Business Data Analysis and Inter-Industry Relationships	15
2	Marginal Analysis, Optimization, and Market Measures	15
3	Optimization Techniques in Business Decisions	15
4	Lab Work- Only for Internal Assessment	15
<b>Total No. of Lectures:</b>		<b>60</b>

Sr. No.	Modules
<b>1</b>	<b>Business Data Analysis and Inter-Industry Relationships</b>
	<ul style="list-style-type: none"> <li>● Representation and interpretation of business data relating to sales, costs, production, and budgets – use of matrices and matrix operations for organizing large datasets and comparing departmental and regional performance for managerial decision-making.</li> <li>● Evaluation of cost–revenue–profit relationships in business firms – application of matrix inverse techniques in pricing, output, and resource allocation models – use of rank of matrix to test feasibility and uniqueness of solutions.</li> <li>● Determination of resource allocation, production planning, and budgeting in multi-product firms – use of simultaneous linear equations – application of Cramer’s Rule and Matrix Inverse Method to obtain equilibrium price and output.</li> <li>● Understanding inter-industry relationships and supply chain linkages – application of input–output analysis in business and industry – use of technical coefficient matrix and open input–output model.</li> </ul>
<b>2</b>	<b>Marginal Analysis, Optimization, and Market Measures</b>

	<ul style="list-style-type: none"> <li>• Measurement of marginal changes in price, output, cost, and revenue – application of rules of differentiation – use of elasticity of demand, supply, cost, and revenue in pricing and forecasting decisions.</li> <li>• Identification of optimal levels of output and cost – application of maxima and minima techniques in single-variable and multivariable business functions.</li> <li>• Derivation of cumulative business measures – application of integration to obtain total cost, total revenue, and total utility functions from marginal functions.</li> <li>• Pricing Outcomes: application of integration in estimation of consumer’s surplus and producer’s surplus under different pricing situations.</li> </ul>
<b>3</b>	<b>Optimization Techniques in Business Decisions</b>
	<ul style="list-style-type: none"> <li>• Formulation of optimal business decisions under certainty – application of calculus and matrix approaches to optimization – use of second-order conditions and Hessian matrix.</li> <li>• Optimization of output mix in multi-product firms producing technically related goods – application of profit maximization techniques in joint and alternative production.</li> <li>• Decision-making under constraints of budget, resources, and technology – application of substitution and elimination methods and method of Lagrange multipliers.</li> <li>• Verification of optimality conditions in constrained business problems – application of matrix approach to second-order conditions – use of bordered Hessian for cost minimization and production maximization.</li> </ul>
<b>3</b>	<b>Lab Work- Only for Internal Assessment</b>
	<ul style="list-style-type: none"> <li>• Matrix Operations and Economic Systems using Spreadsheet- Creating matrices in spreadsheets (input-output tables), Matrix addition, subtraction, scalar multiplication, Finding inverse of a matrix using MINVERSE(), Small-scale Input–Output Model (Leontief system)</li> <li>• Calculus Applications in Economics using Spreadsheet Tools- First-order derivatives using difference methods, Elasticity calculation using formula-based cells, Tabular and graphical estimation of: Total Cost (TC), Average Cost (AC), Marginal Cost (MC), Total Revenue (TR), Marginal Revenue (MR), Consumer Surplus and Producer Surplus using area approximation,</li> <li>• Optimization Problems through Spreadsheet Modelling- Profit maximization using tabular payoff analysis, Identification of maxima/minima through value comparison, Use of spreadsheet formulas to test first-order conditions, Optimization of single-product and two-product firms</li> <li>• Integrated Economic Decision Models in Spreadsheet- Mini case study (pricing / output decision)</li> </ul>

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**Quantitative Tools for Business Decision- Paper- I  
Question Paper Pattern (Academic Year: 2026-2027)**

**Internal Examination & Semester End Examination – 100 Marks**

- I. **Continuous Assessment ( C.A.) - 50 Marks**  
 II. **Semester End Examination ( S.E.E.)- 50 Marks**

**QUESTION PAPER PATTERN OF SEE**

**Maximum Marks:** 50 Marks

**Time:** 2 Hours

- Note:** 1) There are two sections-A and B  
 2) Attempt **Any FIVE out of SIX Questions in Section-A**  
 3) Attempt **Any TWO out of THREE in each Question from Section-B**

Question No	Particulars	Marks
Section- A		
Q-1 (From Module I, II, III)	A. Short Answer Question B. Short Answer Question C. Short Answer Question D. Short Answer Question E. Short Answer Question F. Short Answer Question	5 Marks
Section- B		
Q-2 (from Module I)	A) Application based Question B) Application based Question C) Application based Question	15 Marks
Q-3 (from Module II)	A) Application based Question B) Application based Question C) Two Short Notes	15 Marks
Q-4 (from Module III)	A) Application based Question B) Application based Question C) Two Short Notes	15 Marks

## Reference Books ( with Chapters)

### Module-1-

1. Chiang, A. C. & Wainwright, K., *Fundamental Methods of Mathematical Economics*, McGraw Hill
2. Schaum's Outlines (Linear Algebra & Calculus) – McGraw Hill
3. Vohra, N. D., *Quantitative Techniques in Management*, McGraw Hill, India.
4. Gupta, S. P. & Gupta, M. P., *Business Mathematics and Statistics*, Sultan Chand & Sons
5. Sharma, J. K., *Business Mathematics*, Pearson India
6. Sancheti, D. C. & Kapoor, V. K., *Business Mathematics*, Sultan Chand & Sons
7. Salvatore, D. (2019). *Managerial economics in a global economy* (9th ed.). Oxford University Press.
8. Truett, L. J., Truett, D. B., & Kar, S. (2018). *Managerial economics: An Indian adaptation* (8th ed.). Wiley India.

### Module-II

1. Chiang, A. C. & Wainwright, K., *Fundamental Methods of Mathematical Economics*, McGraw Hill
2. Vohra, N. D., *Quantitative Techniques in Management*, McGraw Hill, India.
3. Gupta, S. P. & Gupta, M. P., *Business Mathematics and Statistics*, Sultan Chand & Sons
4. Sharma, J. K., *Business Mathematics*, Pearson India
5. Sancheti, D. C. & Kapoor, V. K., *Business Mathematics*, Sultan Chand & Sons
6. Salvatore, D. (2019). *Managerial economics in a global economy* (9th ed.). Oxford University Press.
7. Truett, L. J., Truett, D. B., & Kar, S. (2018). *Managerial economics: An Indian adaptation* (8th ed.). Wiley India.

### Module-III

1. Chiang, A. C. & Wainwright, K., *Fundamental Methods of Mathematical Economics*, McGraw Hill
2. Sharma, J. K., *Business Mathematics*, Pearson India
3. Vohra, N. D., *Quantitative Techniques in Management*, McGraw Hill, India.
4. Gupta, S. P. & Gupta, M. P., *Business Mathematics and Statistics*, Sultan Chand & Sons
5. Salvatore, D. (2019). *Managerial economics in a global economy* (9th ed.). Oxford University Press.
6. Truett, L. J., Truett, D. B., & Kar, S. (2018). *Managerial economics: An Indian adaptation* (8th ed.). Wiley India.

### Module- IV

1. Anderson, D. R., Sweeney, D. J., Williams, T. A., Camm, J. D., & Cochran, J. J. (2019). *Quantitative methods for business* (13th ed.). Cengage Learning.
2. Hoffmann, T. (2018). *Business calculus with Microsoft Excel*. Open Textbook Library.

3. Salvatore, D. (2019). *Managerial economics in a global economy* (9th ed.). Oxford University Press.
4. Truett, L. J., Truett, D. B., & Kar, S. (2018). *Managerial economics: An Indian adaptation* (8th ed.). Wiley India.

**Advanced Readings:**

1. Simon and Blume, *Mathematics for Economists*, Norton, W. W. & Company, Inc.
2. Hillier, F. S. & Lieberman, G. J., *Introduction to Operations Research*, McGraw Hill
3. Strang, G., *Linear Algebra and Its Applications*, Cengage Learning
4. Sydsaeter, K., Hammond, P., Seierstad, A. & Strom, A., *Further Mathematics for Economic Analysis*, Pearson Education
5. Apostol, T. M., *Calculus, Vol. I*, Wiley
6. Silberberg, E. & Suen, W., *The Structure of Economics: A Mathematical Analysis*, McGraw Hill
7. Takayama, A., *Mathematical Economics*, Cambridge University Press

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**2. Research Methodology**

**2.A.a: Research Methodology (4 Credits)**

**Semester I**

<b>2 Research Methodology</b>	
<b>2.A.a: Research Methodology</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	Enable students to understand the conceptual foundations, types, and selection criteria of advanced research tools used in Commerce and Management studies.
CObj 2	Develop the ability to design structured and semi-structured research instruments aligned with specific research objectives.
CObj 3	Build competence in managing, organizing, and documenting research data ethically and systematically.
CObj 4	Foster critical interpretation of research findings using appropriate analytical tools and methodological rigor.
<b>Course Outcomes</b>	
COut 1	Explain key research concepts, types of research, and components of a sound research design.
COut 2	Formulate research problems, objectives, and hypotheses based on literature review and research gaps.
COut 3	Apply appropriate data processing and statistical techniques for analysis and interpretation of research data.
COut 4	Prepare well-structured, ethical, and professionally written research reports using modern research practices.

### Modules at a Glance

2.A.a: Research Methodology		
Sr. No.	Modules	No. of Lectures
1	Foundations of Research	15
2	Research Design and Process	15
3	Data Processing and Statistical Analysis	15
4	Testing of hypotheses and Research Reporting	15
<b>Total No. of Lectures:</b>		<b>60</b>

Sr. No.	Modules
<b>1</b>	<b>Foundations of Research</b>
	<ul style="list-style-type: none"> <li>● <b>Introduction to Research-</b> Meaning, objectives, and motivations of research; Characteristics and limitations of research; Components of research work; Criteria of good research; Types of research</li> <li>● <b>Literature Review-</b> Purpose, sources, and Procedure for conducting a literature review</li> <li>● <b>Research Objectives-</b> Meaning and definition of research objectives; Formulation of research objectives</li> <li>● <b>Research Problem and Hypothesis-</b> Identification, selection, and analysis of the research problem; Formulation of the problem statement; Concept and formulation of research hypotheses</li> </ul>
<b>2</b>	<b>Research Design and Process</b>
	<ul style="list-style-type: none"> <li>● <b>Research Design-</b> Definition and essentials of research design; Types of research design; Errors in research design; Stages of the Research Process- Sequential steps involved in conducting research</li> <li>● <b>Variables and Measurement-</b> Types of variables in research; Measurement and scaling concepts; Types of measurement scales; Research Instruments- Construction of research instruments; Validity and reliability of instruments; Questionnaire design and validation</li> <li>● <b>Sampling-</b> Significance of sampling; Sampling methods and techniques; Sample design; Factors determining sample size; Sample size determination</li> <li>● <b>Data Collection Methods-</b> Primary and secondary data; Methods of data collection</li> </ul>
<b>3</b>	<b>Data Processing and Statistical Analysis</b>

	<ul style="list-style-type: none"> <li>● <b>Data Analysis Approaches-</b> Concepts of qualitative research; Concepts of quantitative research;</li> <li>● Qualitative vs. quantitative data analysis; Measurement, causality, generalization, and replication</li> <li>● <b>Data Processing-</b> Editing, coding, and classification of data; Formation of statistical series</li> <li>● <b>Statistical Analysis-</b>Tools and Techniques; Measures of Central Tendency; Measures of Dispersion; Correlation Analysis and Regression Analysis.</li> </ul>
<b>4</b>	<b>Testing of hypotheses and Research Reporting</b>
	<ul style="list-style-type: none"> <li>● <b>Parametric and Non-Parametric Test</b> – Parametric Test-t test, f test, z test; Non-Parametric Test -Chi square test, ANOVA, Factor Analysis</li> <li>● <b>Interpretation of data-</b> Significance and Precautions in data interpretation</li> <li>● <b>Research Reporting-</b> Types of research reports; Structure and contents of a research report; Executive summary; Chapterization and chapter contents; Report writing principles</li> <li>● Role of the audience; Readability, comprehension, and tone; Final proofreading and formatting; Title of the research report</li> </ul>

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

***Research Methodology***

***Question Paper Pattern (Academic Year: 2026-2027)***

**Internal Examination & Semester End Examination – 100 Marks**

Case studies/Group Project/ Power Point Presentations/ Written Assignment

**Question Paper Pattern (Practical/ Theory Courses) :**

**Maximum Marks: 50**

**Questions to be set: 05**

**Durations: 02 hrs**

**All Questions are compulsory carrying 10 Marks each:**

<b>Question No</b>	<b>Particulars</b>	<b>Marks</b>
Q1	A)Practical/ Theory Question OR B)Practical/ Theory Question	10 Marks  10 Marks
Q2	A)Practical/ Theory Question OR B)Practical/ Theory Question	10 Marks  10 Marks
Q3	A)Practical/ Theory Question OR B)Practical/ Theory Question	10 Marks  10 Marks
Q4	A)Practical/ Theory Question OR B)Practical/ Theory Question	10 Marks  10 Marks
Q. 5	A)Practical/ Theory Question OR B)Practical/ Theory Question	10 Marks  10 Marks

**Reference Books ( with Chapters)**

- Creswell, J.W. and Creswell, J.D., 2017. Research design: Qualitative, quantitative, and mixed methods approaches. Sage publications.
- Kothari, C.R., 2004. Research methodology: Methods and techniques. New Age International.
- Sekaran, U. and Bougie, R., 2016. Research methods for business: A skill building approach. John Wiley & Sons.
- Research Methodology – Text and Cases with SPSS Applications, by Dr S.L. Gupta and Hitesh Gupta, International Book House Pvt Ltd
- Business Research Methodology by T N Srivastava and Shailaja Rego, Tata Mcgraw Hill Education Private Limited, New Delhi
- Research Methods in Economics and Business by R. Gerber and P.J. Verdoom, The Macmillan Company, New York Research and Methodology in Accounting and Financial Management, J.K Curtis

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)  
2. Research Methodology  
2.A.b: Research Ethics and Academic Writing (2 Credits)  
Semester I**

<b>2. Research Methodology</b>	
<b>2.A.b: Research Ethics and Academic Writing</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	To familiarize learners with the principles of research ethics and academic integrity.
CObj 2	To sensitize learners to ethical issues in research, publication, and academic writing.
CObj 3	To develop responsible academic writing and ethical publication practices.
<b>Course Outcomes</b>	
COut 1	Learners will be able to understand and apply ethical principles in research and academic practices.
COut 2	Learners will be able to identify and avoid unethical practices in academic writing and scholarly publication.

### Modules at a Glance

<b>2.A.b Research Ethics and Academic Writing</b>		
<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Research Ethics and Responsible Conduct of Research	15
2	Academic Writing, Publication Practices, And Research Evaluation	15
<b>Total No. of Lectures:</b>		<b>30</b>

<b>Sr. No.</b>	<b>Modules</b>
<b>1</b>	<b>Research Ethics and Responsible Conduct of Research</b>
	<ul style="list-style-type: none"> <li>● Introduction to research ethics: meaning, nature, and importance</li> <li>● Philosophy of ethics and moral reasoning in research</li> <li>● Ethics in academics and academic integrity</li> <li>● Research integrity and intellectual honesty</li> <li>● Scientific misconduct: Fabrication, Falsification, and Plagiarism (FFP)</li> <li>● Redundant publications: duplicate publication, salami slicing</li> <li>● Selective reporting and misrepresentation of data</li> <li>● Authorship and contributor ship ethics</li> <li>● Conflicts of interest in research</li> <li>● Institutional mechanisms: complaints, appeals, and ethical accountability</li> </ul>
<b>2</b>	<b>Academic Writing, Publication Practices, and Research Evaluation</b>
	<ul style="list-style-type: none"> <li>● Principles of academic writing: clarity, coherence, originality</li> <li>● Review of literature and formulation of research problem</li> <li>● Integrating theory and data in academic writing</li> <li>● Use of ICT tools in academic writing</li> <li>● Publication ethics: COPE, WAME, CARE guidelines</li> <li>● Predatory journals and publishers: identification and risks</li> <li>● Plagiarism detection tools: Turnitin, Urkund, and open-source tools</li> <li>● Introduction to open access publishing and self-archiving</li> <li>● Academic databases: Web of Science, Scopus (overview)</li> <li>● Research metrics: Impact Factor, CiteScore, h-index, altmetrics</li> </ul>

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**Research Ethics and Academic Writing  
*Question Paper Pattern (Academic Year: 2026-2027)***

**Internal Examination & Semester End Examination – 50 Marks**

**Semester End Examination**

Maximum Marks: 25

Questions to be set: 03

Durations: 01 hr

Question No	Particulars	Marks
Q1	A) Practical/ Theory Question OR B) Practical/ Theory Question	10 Marks  10 Marks
Q2	A) Practical/ Theory Question OR B) Practical/ Theory Question	10 Marks  10 Marks
Q 3	A) Practical/ Theory Question OR B) Practical/ Theory Question	5 Marks  5 Marks

**Reference Books ( with Chapters)**

- Bird, A. (2006). *Philosophy of Science*. Routledge.
- MacIntyre, A. (1967). *A Short History of Ethics*. London.
- Chaddah, P. (2018). *Ethics in Competitive Research: Do Not Get Scooped, Do Not Get Plagiarized*. Springer.
- National Academy of Sciences, National Academy of Engineering & Institute of Medicine. (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research*. National Academies Press.
- Resnik, D. B. (2011). *What Is Ethics in Research & Why Is It Important*. National Institute of Environmental Health Sciences.
- Indian National Science Academy (INSA). (2019). *Ethics in Science Education, Research and Governance*. New Delhi.
- Suber, P. (2012). *Open Access*. MIT Press.
- Beall, J. (2012). Predatory publishers are corrupting open access. *Nature*, 489(7415), 179.
- Das, A. K. (2015). *Research Evaluation Metrics*. UNESCO Curriculum for Researchers, Module 4.
- UGC. (2020). *Good Academic Research Practices*. University Grants Commission, New Delhi.

S P Mandali's  
**R. A. PODAR COLLEGE OF COMMERCE AND  
ECONOMICS (EMPOWERED AUTONOMOUS),**  
Matunga, Mumbai-400019

Syllabus  
and  
Question paper pattern

Master of Commerce  
(Advanced Accountancy)  
Semester II

Syllabus as per National Education Policy 2020  
To be implemented from Academic Year 2026-2027

HYPERLINK "http://www.rapodar.ac.in" [www.rapodar.ac.in](http://www.rapodar.ac.in)

**Master of Commerce- Advanced Accountancy**  
**Syllabus as per National Education Policy 2020**  
*Course Structure*  
**(To be implemented from Academic Year 2026-27)**  
**SEMESTER II**

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**1. Major (1.A Mandatory)**

**1.A.a Business Ethics and CSR (4 Credits)**

**Semester II**

<b>1.Major</b>	
<b>1.A Mandatory</b>	
<b>1.A.a Business Ethics and CSR</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	To familiarize the learners with the concept, relevance, and importance of business ethics in the modern business environment.
CObj 2	To enable the learners to understand the scope, challenges, and significance of corporate social responsibility in the Indian and global context.
CObj 3	To develop ethical awareness and responsibility among learners through the study of corporate governance, sustainability, and socially responsible business practices.
<b>Course Outcomes</b>	
COut 1	Learners will be able to analyze the basic concepts and importance of business ethics and Indian ethical values.
COut 2	Learners will be able to apply ethical principles to various functional areas of business.
COut 3	Learners will be able to evaluate ethical theories and Gandhian principles in business decision-making.
COut 4	Learners will be able to examine the principles and regulatory framework of corporate governance in India.
COut 5	Learners will be able to understand the concept, relevance, and legal framework of corporate social responsibility.
COut 6	Learners will be able to design CSR strategies for sustainable and socially responsible business practices.

**Modules at a Glance**

<b>Business Ethics and CSR</b>		
<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Business Ethics	10
2	Indian Ethical Practices and Corporate Governance	15
3	Introduction to Corporate Social Responsibility	20
4	Areas of CSR and CSR Policy	15
<b>Total No. of Lectures:</b>		<b>60</b>

<b>Sr. No.</b>	<b>Modules</b>
<b>1</b>	<b>Introduction to Business Ethics</b>
	<ul style="list-style-type: none"> <li>● Business Ethics – Concept, Characteristics, Importance and Need for business ethics.</li> <li>● Indian Ethos, Ethics and Values, Work Ethos.</li> <li>● Sources of Ethics, Ethical dilemma in business.</li> <li>● Various approaches to Business Ethics - Theories of Ethics- Friedman's Economic theory, Kant's Deontological theory, Mill &amp; Bentham's Utilitarianism theory</li> </ul>
<b>2</b>	<b>Indian Ethical Practices and Corporate Governance</b>
	<ul style="list-style-type: none"> <li>● Corporate Governance: Concept, Importance, Evolution of Corporate Governance, Principles of Corporate Governance,</li> <li>● Regulatory Framework of Corporate Governance in India, SEBI Guidelines and clause 49, Audit Committee</li> <li>● Role of Independent Directors, Protection of Stake Holders, Changing roles of corporate Boards.</li> <li>● Elements of Good Corporate Governance, Failure of Corporate Governance and its consequences</li> </ul>
<b>3</b>	<b>Introduction to Corporate Social Responsibility</b>

	<ul style="list-style-type: none"> <li>● Corporate Social Responsibility: Concept, Scope &amp; Relevance and Importance of CSR in Contemporary Society.</li> <li>● Corporate philanthropy, Models for Implementation of CSR, Drivers of CSR, Prestigious awards for CSR in India. Evaluation of CSR</li> <li>● CSR –legislation in India and world. Sec 135. Organization citizenship behavior in the work place.</li> <li>● Role of NGO’s and International Agencies in CSR, Integrating CSR into Business</li> </ul>
4	<b>Areas of CSR and CSR Policy</b>
	<ul style="list-style-type: none"> <li>● CSR towards Stakeholders-- Shareholders, Creditors and Financial Institutions, Government, Consumers, Employees and Workers, Local Community and Society.</li> <li>● CSR and environmental concerns. CSR and Sustainable Development CSR through Triple Bottom Line in Business</li> <li>● Designing CSR Policy- Factors influencing CSR Policy, Role of HR Professionals in CSR. Major codes on CSR.</li> </ul>

**Business Ethics and CSR**  
**Question Paper Pattern**  
**(Academic Year: 2026-2027)**

**Internal Examination & Semester End Examination – 100 Marks**

**Question Paper Pattern (Practical/ Theory Courses) :**

Case studies/Group Project/ Power Point Presentations/ Written Assignment

**Question Paper Pattern (Practical/ Theory Courses) :**

Maximum Marks: 50  
 Questions to be set: 05  
 Durations: 02 hrs

**All Questions are compulsory carrying 10 Marks each:**

<b>Question No</b>	<b>Particulars</b>	<b>Marks</b>
Q1	A) Practical/ Theory Question OR	10 Marks
	B) Practical/ Theory Question	10 Marks
Q2	A) Practical/ Theory Question OR	10 Marks
	B) Practical/ Theory Question	10 Marks
Q3	A) Practical/ Theory Question OR	10 Marks
	B) Practical/ Theory Question	10 Marks
Q4	A) Practical/ Theory Question OR	10 Marks
	B) Practical/ Theory Question	10 Marks
Q5	A) Practical/ Theory Question OR	10 Marks
	B) Practical/ Theory Question	10 Marks

**Reference Books ( with Chapters):**

- Sharma J.P ‘ Corporate Governance, business ethics and CSR, Ane Books Pvt Ltd, New Delhi
- Sharma J.P. Corporate Governance and Social Responsibility of business, Ane Books Pvt ltd, New Delhi
- S.K.Bhatia, Business Ethics and Corporate Governance
- William Shaw, Business Ethics, Wordsworth Publishing Company, International Thomson Publishing Company.
- Corporate Crimes and Financial Frauds, Dr. Sumit Sharma, New Delhi India
- R.C. Sekhar, Ethical choices in Business, Sage Publications, New Delhi
- Business Ethics, Andrew Crane and Dirk Matten, Oxford University Press.
- Business Ethics, Text and Cases, C.S.V. Murthy, Himalaya Publication House.
- Mallin, Christine A. Corporate Governance (Indian Edition) Oxford University press. New Delhi
- Blow field ,Michael and Alan Murray, Corporate Responsibility, Oxford University Press,
- Philip Kotler and Nancy Lee, CSR : doing the most good for Company and your cause , Wiley 2005
- Beeslory, Michel and Evens, CSR , Taylor and Francis, 1978
- Subhabrata Bobby Banerjee, CSR: the good, the bad and the ugly. Edward Elgar Publishing 2007
- Joseph A. Petrick and John F. Quinn, Management Ethics- Integrity at work , Sage Publication , 1997
- Francesco Perrini, Stefano and AntonioTencati, Developing CSR- A European Perspective , Edward Elgar.
- William B. Werther, Jr. David Chandler, Strategic Corporate Social Responsibility, stakeholders’ a global environment, Sage Publication, 2009.
- Ellington. J. (1998), Cannibals with forks: The triple bottom line of 21st Century business, New Society Publishers.
- Crane, A. Et al., (2008), The Oxford handbook of Corporate Social Responsibility, New York: Oxford University Press Inc.

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**1. Major (1.A Mandatory)**

**1.A.b Financial Management (4 Credits)**

**Semester II**

<b>1.Major</b>	
<b>1.A Mandatory</b>	
<b>1.A.b.Financial Management</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	To enhance the abilities of learners to develop the objectives of Financial Management.
CObj 2	To enable the learners to understand, develop and apply the techniques of investment in the financial decision-making in the business corporates.
CObj 3	To enhance the abilities of learners to analyze the financial statements.
CObj 4	To enable learners to analyze and apply dividend decision policies in corporate financial management.
<b>Course Outcomes</b>	

COut 1	Understand the scope and objectives of financial management in organizations. Apply the time value of money principles to analyze investment opportunities.
COut 2	Apply ratio analysis techniques to assess the financial health and performance of a company. Make informed financial decisions based on financial analysis and evaluation.
COut 3	Analyze and evaluate different financial decisions, such as investment decisions, financing decisions, and dividend decisions.
COut 4	This knowledge will enable learners to contribute to the financial success and sustainability of organizations and support effective financial planning and decision-making.

**Modules at a Glance**

<b>Financial Management</b>		
<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Fundamentals of Financial Management	15
2	Cost of Capital	15
3	Capital Structure and Leverages	15
4	Dividend Decisions	15
<b>Total No. of Lectures:</b>		<b>60</b>

<b>Sr. No.</b>	<b>Modules</b>
<b>1</b>	<b>Introduction to Fundamentals of Financial Management</b>
	<ul style="list-style-type: none"> <li>• Introduction, Meaning, Importance, Scope, Objectives, Profit v/s Wealth Maximization, Financing decisions/functions, Role of finance executives, financial distress &amp; insolvency, agency problem &amp; agency cost.</li> </ul>
<b>2</b>	<b>Cost of Capital</b>
	<ul style="list-style-type: none"> <li>• Introduction, Definition, Measurement of Cost of Capital, WACC.</li> </ul>
<b>3</b>	<b>Capital Structure And Leverages</b>
	<ul style="list-style-type: none"> <li>• Marginal Cost of Capital Structure Decisions - Meaning, Choice of Capital Structure, Importance, Optimal Capital Structure, EBIT-EPS Analysis, Capital Structure and Market Price of Share, Capital Structure Theories.</li> <li>• Leverages- Introduction, Business risk &amp; Financial risk, Types of leverage</li> </ul>
<b>4</b>	<b>Dividend Decisions</b>

	<ul style="list-style-type: none"> <li>● Dividend Decisions: Meaning, Importance, Various forms &amp; determinants of Dividend, Theories of Dividend Decisions-             <ol style="list-style-type: none"> <li>1. M. M. Approach</li> <li>2. Walter's Model</li> <li>3. Gordon's Model</li> </ol> </li> </ul>
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**Financial Management**  
***Question Paper Pattern***  
**(Academic Year: 2026-2027)**

**Internal Examination & Semester End Examination – 100 Marks**

**Internal Examination – 50 Marks**

Class Test	25marks
Project/Assignment	25 marks
Total	50 marks

**Semester End Examination (SEE) - 50 Marks**

Maximum Marks	50 marks
Number of Questions to be Set	06 (Six)
Duration	02 Hours

**Note:**

**1. Attempt any Five questions**

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To be attempted)
<b>Q1</b>	Practical Question/s	10	10
<b>Q2</b>	Practical Question/s	10	10
<b>Q3</b>	Practical Question/s	10	10
<b>Q4</b>	Practical Question/s	10	10
<b>Q5</b>	Case Study/Concept /Application Based Practical Questions	10	10
<b>Q6</b>	Concept Based Theory Questions To be given: Seven (07) To be attempted: Any Five (05)	14	10
	<b>Total</b>	<b>64</b>	<b>50</b>



**Reference Books ( with Chapters):**

1. Khan MY, Jain PK, BASIC FINANCIAL MANAGEMENT, Tata McGraw Hill, Delhi , 2005.
2. Chandra, Prasanna,. FINANCIAL MANAGEMENT, Tata McGraw Hill, Delhi.
3. Bhabatosh Banerjee, FUNDAMENTALS OF FINANCIAL MANAGEMENT, PHI, Delhi, 2010
4. Chandra Bose D, FUNDAMENTALS OF FINANCIAL MANAGEMENT, PHI, Delhi, 2010
5. Preeti Singh, FUNDAMENTALS OF FINANCIAL MANAGEMENT, Ane, 2011.

**Syllabus of Master of Commerce- Advanced Accountancy**  
**(With effect from the Academic Year 2026-2027)**  
**1.B Major related Electives**  
**1.B.a: Introduction to Financial Analytics – Paper II (4 Credits)**  
**Semester II**

<b>1.Major</b>	
<b>1.B Major related Electives</b>	
<b>1.B.a: Introduction to Financial Analytics – Paper II</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	To build a strong foundation for learners in business valuation by applying stock valuation models, discounted cash flow techniques, and relative valuation methods.
CObj 2	To develop the ability of learners to evaluate capital investment decisions using time value of money techniques and risk analysis tools.
CObj 3	To equip learners with analytical skills for the valuation of bonds and the assessment of interest rate sensitivity in long-term financing decisions.
CObj 4	To build an understanding of financial risk measurement, focusing on market risk and credit risk in fixed income and financial markets.
<b>Course Outcomes</b>	
COut 1	Evaluate equity and business value using CAPM, dividend and earnings models, FCFE, FCFE, and relative valuation approaches.
COut 2	Apply capital budgeting techniques such as NPV, IRR, payback methods, and risk analysis tools to evaluate investment proposals.
COut 3	Value bonds and measure interest rate risk using yield measures, duration, and convexity.
COut 4	Assess and interpret financial risks in fixed income markets, including market risk and credit risk, for informed financial decision-making.

### Modules at a Glance

<b>Introduction to Financial Analytics- Paper-II</b>		
Sr. No.	Modules	No. of Lectures
1	Common Stock Valuation & Discounted Cash Flow Models of Business Valuation	15
2	Capital Budgeting and Risk Analysis	15
3	Analysis of Bonds and Long-Term Financing	15
4	Financial Risk Measurement and Analysis	15
<b>Total No. of Lectures:</b>		<b>60</b>

Sr. No.	Modules
<b>1</b>	<b>Common Stock Valuation &amp; Discounted Cash Flow Models of Business Valuation</b>
	<ul style="list-style-type: none"> <li>● Fundamentals of Valuation</li> <li>● Analysis of Beta</li> <li>● Return on Equity</li> <li>● Capital Asset Pricing Model</li> <li>● Dividend Discount Models</li> <li>● Earnings Models</li> <li>● Free Cash Flow to Firm Model</li> <li>● Free Cash Flow to Equity Model</li> <li>● Relative Valuation</li> </ul>
<b>2</b>	<b>Advanced Capital Budgeting Decisions and Risk Analysis</b>
	<ul style="list-style-type: none"> <li>● Current Trends in Capital Budgeting</li> <li>● Dealing with Risk in Investment Decisions</li> <li>● Internal and External Factors affecting capital budgeting decision</li> <li>● Methods of incorporating risk in Capital Budgeting</li> <li>● Adjusted Present Value</li> <li>● Optimum Replacement Cycle</li> <li>● Sensitivity Analysis</li> <li>● Scenario Analysis</li> </ul>

<b>3</b>	<b>Analysis of Bonds and Long-Term Financing</b>
	<ul style="list-style-type: none"><li>● Valuation of Bonds</li><li>● Current Yield</li><li>● Bond Equivalent Yield</li><li>● Macaulay Duration</li><li>● Modified Duration</li><li>● Convexity</li></ul>
<b>4</b>	<b>Financial Risk Measurement and Analysis</b>
	<ul style="list-style-type: none"><li>● Risk Measurement in Fixed Income Markets</li><li>● Market Risk Analysis</li><li>● Credit Risk Measurement</li></ul>

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**Introduction to Financial Analytics- II  
Question Paper Pattern (Academic Year: 2026-2027)**

**Internal Examination & Semester End Examination – 100 Marks**

**Internal Examination – 50 Marks**

Class Test	25marks
Project/Assignment	25 marks
Total	50 marks

**Semester End Examination (SEE) - 50 Marks**

Maximum Marks	50 marks
Number of Questions to be Set	06 (Six)
Duration	02 Hours

**Note:**

**1. Attempt any Five questions**

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To be attempted)
<b>Q1</b>	Practical Question/s	10	10
<b>Q2</b>	Practical Question/s	10	10
<b>Q3</b>	Practical Question/s	10	10
<b>Q4</b>	Practical Question/s	10	10
<b>Q5</b>	Case Study/Concept /Application Based Practical Questions	10	10
<b>Q6</b>	Concept Based Theory Questions To be given: Seven (07) To be attempted: Any Five (05)	14	10
	<b>Total</b>	<b>64</b>	<b>50</b>

**Reference Books ( with Chapters)**

1. Financial Analytics by Pitabas Mohanty
2. Financial Statement Analysis: A Data Analytics Approach by Resutek & Richardson
3. Data Analytics in Finance by Huijian Dong
4. Financial Analysis with Microsoft Excel by Mayes & Shank
5. The Intelligent Investor by Benjamin Graham
6. Financial Shenanigans by Howard Schilit

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**1.B Major related Electives**

**1.B.b: Personal Financial Planning (4 Credits)**

**Semester II**

<b>1.Major</b>	
<b>1.B Major Related Electives</b>	
<b>1.B.b: Personal Financial Planning</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
CObj 1	The principal objective of this course will be to provide a strong base for the financial planning and understand the basic investment topics (including investment types, risk and return, diversification, passive versus active management) and specific investment strategies necessary to allow clients a mechanism to achieve realistic goals.
CObj 2	The course will also provide an understanding and appreciation for the work of financial planning, the career opportunities available, and the business of financial planning.
<b>Course Outcomes</b>	
COut1	Determining the Personal financial status by analyzing and evaluating the available information.
COut2	Developing and preparing a Financial Plan tailored to meet the goal in relation with Risk analysis, insurance and retirement planning.
COut3	Implement and monitor the Financial Plan.

### Modules at a Glance

Personal Financial Planning		
Sr. No.	Modules	No. of Lectures
1	Personal Financial Planning	15
2	Risk Analysis & Insurance Planning	15
3	Retirement Planning & Employees Benefits	15
4	Investment Planning	15
<b>Total No. of Lectures:</b>		<b>60</b>

Sr. No.	Modules
<b>1</b>	<b>Personal Financial Planning</b>
	<ul style="list-style-type: none"> <li>● Introduction</li> <li>● Time value of money applications</li> <li>● Personal financial statements, Cash flow and debt management, tools and budgets</li> <li>● Money Management</li> <li>● Tax planning : Capital Gain, Set off, Cryptocurrency tax, general insurance, index fund</li> <li>● Managing Checking and Savings Accounts</li> <li>● Maintaining Good Credit</li> <li>● Credit Cards and Consumer Loans</li> <li>● Vehicle and Other Major Purchases</li> <li>● Obtaining Affordable Housing Income and Asset Protection</li> <li>● Managing Property and Liability Risk</li> <li>● Managing Health Expenses</li> </ul>
<b>2</b>	<b>Risk Analysis &amp; Insurance Planning</b>
	<ul style="list-style-type: none"> <li>● Risk management and insurance decision in personal financial planning, Various Insurance Policies and Strategies for General Insurance, Life Insurance, Motor Insurance, Medical Insurance.</li> </ul>
<b>3</b>	<b>Retirement Planning &amp; Employees Benefits</b>
	<ul style="list-style-type: none"> <li>● Retirement needs analysis techniques, Development of retirement plan, Various retirement schemes such as Employees Provident Fund (EPF), Public Provident Fund (PPF), Superannuation Fund, Gratuity, Other Pension Plan and Post-retirement counselling.</li> </ul>
<b>4</b>	<b>Investment Planning</b>
	<ul style="list-style-type: none"> <li>● Risk Return Analysis</li> <li>● Investing in Stocks and Bonds, Mutual Fund, Derivatives, Investing in Real Estate, Asset Allocation</li> <li>● Investment Strategies and Portfolio Construction and Management.</li> </ul>

**Syllabus of Master of Commerce- Advanced Accountancy**  
**(With effect from the Academic Year 2026-2027)**  
**Personal Financial Planning**  
*Question Paper Pattern (Academic Year: 2026-2027)*

**Internal Examination & Semester End Examination – 100 Marks**

**Internal Examination – 50 Marks**

Class Test	25marks
Project/Assignment	25 marks
Total	50 marks

**Semester End Examination (SEE) - 50 Marks**

Maximum Marks	50 marks
Number of Questions to be Set	06 (Six)
Duration	02 Hours

**Note:**

**1. Attempt any Five questions**

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To be attempted)
<b>Q1</b>	Practical Question/s	10	10
<b>Q2</b>	Practical Question/s	10	10
<b>Q3</b>	Practical Question/s	10	10
<b>Q4</b>	Practical Question/s	10	10
<b>Q5</b>	Case Study/Concept /Application Based Practical Questions	10	10
<b>Q6</b>	Concept Based Theory Questions To be given: Seven (07) To be attempted: Any Five (05)	14	10
	<b>Total</b>	<b>64</b>	<b>50</b>

**Reference Books ( with Chapters)**

- Singhanar V.K: Students' Guide to Income Tax; Taxmann, Delhi.
- Prasaci, Bhagwati: Income Tax Law & Practice: Wiley Publication, New Delhi.
- Girish Ahuja and Ravi Gupta: Systematic approach to income tax: Sahitya Bhawan Publications, New Delhi
- Ranganathan and Madhumathi: Investment Analysis and Portfolio Management: Pearson, New Delhi.
- George Rejda: Principles of Risk Management and Insurance: Pearson, New Delhi.

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**1.B Major related Electives**

**1.B.c: Quantitative Tools for Business Decision- Paper II (4 Credits)  
Semester II**

<b>1.B Major Related Electives</b>	
<b>1.B.c: Quantitative Tools for Business Decision-II</b>	
<b>Course Objectives and Course Outcomes</b>	
<b>Course Objectives</b>	
<b>CObj 1</b>	To develop conceptual understanding of economic and business relationships through the study of linear models, population and sample functions, and stochastic elements in empirical analysis.
<b>CObj 2</b>	To enable application of quantitative estimation techniques such as Ordinary Least Squares and Maximum Likelihood methods for analyzing business and economic data.
<b>CObj 3</b>	To build analytical skills for examining the statistical properties, assumptions, and performance of estimation methods used in business decision models.
<b>CObj 4</b>	To promote critical evaluation of empirical models by identifying and addressing practical issues such as multicollinearity, heteroscedasticity, autocorrelation, and the use of qualitative variables.
<b>CObj 5</b>	To encourage formulation and interpretation of empirical business models that support informed managerial and policy-oriented decision-making using appropriate econometric tools.
<b>CObj 6</b>	To strengthen problem-solving competence by applying econometric reasoning and diagnostic techniques to real-world business and economic datasets for improved decision-making.
<b>Course Outcomes</b>	
<b>CO 1</b>	Explain the nature of relationships between economic and business variables such as demand, income, cost, and output using the concept of the Population Regression Function (PRF).
<b>CO 2</b>	Describe the role of uncertainty in economic data through the stochastic specification of the regression model and the significance of the disturbance term.
<b>CO 3</b>	Apply the Ordinary Least Squares (OLS) method to estimate regression models and compute regression coefficients using sample data.
<b>CO 4</b>	Analyze the assumptions and statistical properties of the Classical Linear Regression Model, including the precision and standard errors of estimates.

<b>CO 5</b>	Evaluate the reliability and explanatory power of estimated models using the Gauss–Markov Theorem and the coefficient of determination ( $R^2$ ).
<b>CO 6</b>	Explain the role of randomness in economic and business data through the probability distribution of disturbance terms.
<b>CO 7</b>	Describe the importance of the normality assumption of disturbance terms for valid statistical inference in regression models.
<b>CO 8</b>	Analyze the properties and behavior of Ordinary Least Squares (OLS) estimators under the normality assumption.
<b>CO 9</b>	Apply likelihood-based estimation techniques to estimate model parameters using the Maximum Likelihood (ML) method.
<b>CO 10</b>	Evaluate and compare estimation results obtained from OLS and Maximum Likelihood methods in terms of efficiency and reliability of inference.
<b>CO 11</b>	Explain the nature and causes of practical problems such as multicollinearity, heteroscedasticity, and autocorrelation in business regression models.
<b>CO 12</b>	Analyze the impact of multicollinearity on parameter estimation and model interpretation, including issues arising from perfect multicollinearity.
<b>CO 13</b>	Apply appropriate estimation techniques such as Generalized Least Squares (GLS) to address heteroscedasticity in economic and business data.
<b>CO 14</b>	Apply corrective measures to regression models affected by autocorrelation and assess the properties of the BLUE estimator under such conditions.
<b>CO 15</b>	Evaluate the role of dummy variables in incorporating qualitative business factors and improving the explanatory power of regression models.
<b>CO 16</b>	Explain the steps involved in estimating a two-variable regression model using spreadsheet tools, including interpretation of slope, intercept, and goodness of fit.
<b>CO 17</b>	Apply spreadsheet functions and tools to estimate regression equations, construct scatter plots and trendlines, and compute $R^2$ values using Spreadsheet and Data Analysis Toolpak.
<b>CO 18</b>	Analyze regression residuals using graphical and tabular methods to test classical regression assumptions such as normality, homoscedasticity, and independence.
<b>CO 19</b>	Apply spreadsheet-based diagnostic techniques to detect econometric problems including multicollinearity, heteroscedasticity, autocorrelation, and to incorporate dummy variables in regression models.
<b>CO 20</b>	Develop and interpret applied econometric models using real or simulated datasets to draw business or policy inferences and present findings through structured reports generated from spreadsheet outputs.

### Modules at a Glance

#### 1.B.c: Quantitative Tools for Business Decision-II

Sr. No.	Modules	No. of Lectures
1	<b>Understanding Economic Relationships through Data</b>	15
2	<b>Probability, Inference, and Model Estimation</b>	15
3	<b>Practical Problems in Business Regression Models</b>	15
4	<b>Lab Work- Only for Internal Assessment</b>	15
<b>Total No. of Lectures:</b>		<b>60</b>

Sr. No.	Modules
<b>1</b>	<b>Understanding Economic Relationships through Data</b>
	<ul style="list-style-type: none"> <li>• Understanding the relationship between economic and business variables such as demand, income, cost, and output – concept of Population Regression Function (PRF) – meaning of linearity and parameters.</li> <li>• Incorporating uncertainty and random influences in business data – stochastic specification of PRF – significance of the stochastic disturbance term – formulation of Sample Regression Function (SRF).</li> <li>• Estimating business relationships using sample data – application of the Ordinary Least Squares (OLS) method – assumptions of the Classical Linear Regression Model – estimation of standard errors and precision of regression coefficients.</li> <li>• Evaluating the reliability and explanatory power of regression models – properties of least-squares estimators – Gauss-Markov Theorem – coefficient of determination (<math>R^2</math>) as a measure of goodness of fit.</li> </ul>
<b>2</b>	<b>Probability, Inference, and Model Estimation</b>
	<ul style="list-style-type: none"> <li>• Modeling randomness in economic and business data – probability distribution of disturbance terms.</li> <li>• Ensuring validity of statistical inference in regression analysis – normality assumption of disturbance terms.</li> <li>• Assessing estimator performance under normality – properties of OLS estimators under the normality assumption.</li> <li>• Parameter estimation using likelihood-based methods – application of the Maximum Likelihood (ML) method in regression models.</li> </ul>
<b>3</b>	<b>Practical Problems in Business Regression Models</b>
	<ul style="list-style-type: none"> <li>• Addressing interdependence among explanatory variables in business data – nature of multicollinearity – estimation issues under perfect multicollinearity.</li> <li>• Handling unequal variability in business and economic data – nature of</li> </ul>

	<p>heteroscedasticity – OLS estimation under heteroscedasticity – application of Generalized Least Squares (GLS).</p> <ul style="list-style-type: none"> <li>● Managing dependence across time-series business data – nature of autocorrelation – OLS estimation in the presence of autocorrelation – BLUE estimator under autocorrelation.</li> <li>● Incorporating qualitative business factors into regression analysis – concept and nature of dummy variables.</li> </ul>
<b>4</b>	<b>Practical Problems in Business Regression Models</b>
	<ul style="list-style-type: none"> <li>● Estimation of Two-Variable Regression using Spreadsheet- Scatter plots and trendlines, Estimation of regression equation using: Spreadsheet functions, Data Analysis Toolpak, Interpretation of slope, intercept, Calculation of <math>R^2</math> and goodness of fit</li> <li>● Testing Classical Regression Assumptions using Spreadsheet, Residual calculation and analysis, Testing normality using graphs (histogram, Q-Q idea),</li> <li>● Diagnosing Econometric Problems using Spreadsheet Techniques- Detecting multicollinearity (correlation matrix, Detecting heteroscedasticity (residual vs fitted plots), Detecting autocorrelation (residual patterns), Dummy variable creation and interpretation</li> <li>● Applied Econometric Case Studies using Spreadsheet- Real or simulated datasets (sales, demand, income), Model building and interpretation, Policy/business inference from regression results, Report writing from spreadsheet outputs</li> </ul>

**Syllabus of Master of Commerce- Advanced Accountancy  
(With effect from the Academic Year 2026-2027)**

**Quantitative Tools for Business Decision- Paper- II  
*Question Paper Pattern (Academic Year: 2026-2027)***

**Internal Examination & Semester End Examination – 100 Marks**

- I. **Continuous Assessment ( C.A.) - 50 Marks**  
 II. **Semester End Examination ( S.E.E.)- 50 Marks**

**QUESTION PAPER PATTERN OF SEE**

**Maximum Marks:** 50 Marks

**Time:** 2 Hours

- Note:** 1) There are two sections-A and B  
 2) Attempt **Any FIVE out of SIX Questions in Section-A**  
 3) Attempt **Any TWO out of THREE in each Question from Section-B**

Question No	Particulars	Marks
Section- A		
Q-1 (From Module I, II, III)	A. Short Answer Question B. Short Answer Question C. Short Answer Question D. Short Answer Question E. Short Answer Question F. Short Answer Question	5 Marks
Section- B		
Q-2 (from Module I)	A) Application based Question B) Application based Question C) Two Short Notes	15 Marks
Q-3 (from Module II)	A) Application based Question B) Application based Question C) Two Short Notes	15 Marks
Q-4 (from Module III)	A) Application based Question B) Application based Question C) Two Short Notes	15 Marks

## Reference Books ( with Chapters)

### Module-1-

1. Gujarati, D. N. & Porter, D. C., *Basic Econometrics*, McGraw Hill Education
2. Koutsoyiannis, A., *Theory of Econometrics*, Palgrave Macmillan
3. Maddala, G. S., *Introduction to Econometrics*, Wiley India
4. Wooldridge, J. M., *Introductory Econometrics: A Modern Approach*, Cengage Learning
5. Studenmund, A. H. (2017). *Using econometrics: A practical guide* (7th ed.). Pearson Education.

### Module-II

1. Gujarati, D. N. & Porter, D. C., *Basic Econometrics*, McGraw Hill Education
2. Koutsoyiannis, A., *Theory of Econometrics*, Palgrave Macmillan,
3. Maddala, G. S., *Introduction to Econometrics*, Wiley India
4. Studenmund, A. H. (2017). *Using econometrics: A practical guide* (7th ed.). Pearson Education.

### Module-III

1. Gujarati, D. N. & Porter, D. C., *Basic Econometrics*, McGraw Hill Education
2. Wooldridge, J. M., *Introductory Econometrics: A Modern Approach*, Cengage Learning
3. Maddala, G. S., *Introduction to Econometrics*, Wiley India
4. Studenmund, A. H. (2017). *Using econometrics: A practical guide* (7th ed.). Pearson Education.

### Module-IV

1. Hill, R. C., Griffiths, W. E., & Lim, G. C. (2018). *Principles of econometrics* (5th ed.). John Wiley & Sons.

### Advanced Readings:

1. Gujarati, D. N. (2014). *Econometrics by example* (2nd ed.). Bloomsbury Academic.
2. Johnston, J. & DiNardo, J., *Econometric Methods*, McGraw Hill
3. Greene, W. H., *Econometric Analysis*, Pearson Education
4. Judge, G. G., Hill, R. C., Griffiths, W. E., Lütkepohl, H. & Lee, T. C., *Introduction to the Theory and Practice of Econometrics*, Wiley
5. Kennedy, P., *A Guide to Econometrics*, Wiley-Blackwell
6. Verbeek, M., *A Guide to Modern Econometrics*, John Wiley & Sons

## **Syllabus of Master of Commerce- Advanced Accountancy**

**(With effect from the Academic Year 2026-2027)**

### **2. Research Methodology**

#### **2.A.a: Research Methodology (4 Credits)**

##### **Semester II**

Inclusion of project work in the course curriculum of the M.Com. programme is one of the ambitious aspects in the programme structure. The main objective of inclusion of project work is to inculcate the element of research work challenging the potential of the learner as regards to his/ her eagerness to enquire and ability to interpret particular aspects of the study in his/ her own words. It is expected that the guiding teacher should undertake the counselling sessions and make the learners about the methodology of formulation.

#### **Preparation and Evaluation Pattern Of The Project Work.**

There are two modes of preparation of project work

1. Project work based on research methodology in the study area
2. Project work based on internship in the study area

#### **Guidelines for preparation of Project Work**

##### **Work Load**

Work load for Project Work is 01 (one) hour per batch of 15-20 learners per week for the teacher. The learner (of that batch) shall do field work and library work in the remaining 03 (three) hours per week.

#### **1. General guidelines for preparation of project work based on research methodology**

The project topic may be undertaken in any area of Elective Courses.

Each of the learners has to undertake a Project individually under the supervision of a teacher-guide.

The learner shall decide the topic and title which should be specific, clear and with definite scope in consultation with the teacher-guide concerned.

University/college shall allot a guiding teacher for guidance to the students based on her / his specialization.

**The project report shall be prepared as per the broad guidelines given below:**

- Font type: Times New Roman
- Font size: 12-For content, 14-for Title
- Line Space: 1.5-for content and 1-for in table work
- Paper Size: A4
- Margin: in Left-1.5, Up-Down-Right-1
- The Project Report shall be bounded.
- The project report should be 60 to 80 pages

**Structure to be followed to maintain the uniformity in formulation and presentation of Project Work:**

**(Model Structure of the Project Work)**

**Chapter No. 1: Introduction**

In this chapter Selection and relevance of the problem, historical background of the problem, brief profile of the study area, definition/s of related aspects, characteristics, different concepts pertaining to the problem etc. can be incorporated by the learner.

**Chapter No. 2: Research Methodology**

This chapter will include Objectives, Hypothesis, Scope of the study, limitations of the study, significance of the study, Selection of the problem, Sample size, Data collection, Tabulation of data, Techniques and tools to be used, etc. can be incorporated by the learner.

**Chapter No. 3: Literature Review**

This chapter will provide information about studies done on the respective issue. This would specify how the study undertaken is relevant and contribute for value addition in information/ knowledge/ application of study area which ultimately helps the learner to undertake further study on the same issue.

**Chapter No. 4: Data Analysis, Interpretation and Presentation**

This chapter is the core part of the study. The analysis pertaining to collected data will be done by the learner. The application of selected tools or techniques will be used to arrive at findings. In this, table of

information, presentation of graphs etc. can be provided with interpretation by the learner.

## **Chapter No. 5: Conclusions and Suggestions**

In this chapter of project work, findings of work will be covered and suggestion will be enlisted to validate the objectives and hypotheses.

Note: If required more chapters of data analysis can be added.

- Bibliography
- Appendix

## **2. Guidelines for Internship based project work**

Minimum 20 days/ 100 hours of Internship with an Organization/ NGO/ Charitable Organization/ Private firm.

- The theme of the internship should be based on any study area of the elective courses
- Project Report should be of minimum 50 pages
- Experience Certificate is Mandatory
- A project report has to be brief in content and must include the following aspects:

**Executive Summary:** A bird's eye view of your entire presentation has to be precisely offered under this category.

**Introduction on the Company:** A Concise representation of company/ organization defining its scope, products/ services and its SWOT analysis.

**Statement and Objectives:** The mission and vision of the organization need to be stated enshrining its broad strategies.

**Your Role in the Organization during the internship:** The key aspects handled, the department under which you were deployed and brief summary report duly acknowledged by the reporting head.

**Challenges:** The challenges confronted while churning out theoretical knowledge into practical world.

**Conclusion:** A brief overview of your experience and suggestions to bridge the gap between theory and practice.

The project report based on internship shall be prepared as per the broad guidelines given below:

- Font type: Times New Roman
- Font size: 12-For content, 14-for Title
- Line Space: 1.5-for content and 1-for in table work
- Paper Size: A4
- Margin: in Left-1.5, Up-Down-Right-1
- The Project Report shall be bounded

### Evaluation pattern of the project work

The Project Report shall be evaluated in two stages viz.	<b>Marks</b>	
<b>Evaluation of Project Report (Bound Copy):</b>		<b>60</b>
Introduction and other areas covered	30	
Research Methodology, Presentation, Analysis and interpretation of data	20	
Conclusion & Recommendations	10	
<b>Conduct of Viva-voce:</b>		<b>40</b>
In the course of Viva-voce, the questions may be asked such as importance / relevance of the study, objective of the study, methodology of the study/ mode of Enquiry (question responses)	10	
Ability to explain the analysis, findings, concluding observations, recommendation, limitations of the Study	20	
Overall Impression (including Communication Skill)	10	
<b>Total Marks</b>		<b>100</b>

**Note:** The guiding teacher along with the external evaluator appointed by the University/ College for the evaluation of project shall conduct the viva-voce examination as per the evaluation pattern.

#### **Passing Standard**

Minimum of Grade D in the project component

In case of failing in the project work, the same project can be revised for ATKT examination.

#### **Absence of student for viva voce:**

If any student fails to appear for the viva voce on the date and time fixed by the department such student shall appear for the viva voce on the date and time fixed by the Department, such student shall appear for the viva voce only along with students of the next batch.