

B.SC. MATHEMATICS

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	25UMAVAC1	Value Added Course - I	30	-	-	100	100
Course Title		Fundamentals of Accounting					

SYLLABUS

Unit	Contents	Hours
I	Introduction to Accounting: Accounting - Definitions - Meaning and Objectives - Book Keeping – Meaning - Accounting vs Book Keeping – Accounting Concepts and Conventions - Branches of Accounting – Methods of Accounting – Double Entry System	6
II	Journal and Ledger: Journal – Meaning - Transaction Analysis for Journal Entries - Ledger- Meaning - Posting of Journal to Ledger- Balancing of Ledger Accounts	6
III	Subsidiary Books: Meaning - Purchase Book, Sales Book and Cash Book (Single, Double and Three Column)	6
IV	Trail Balance: Meaning – Objectives- Methods – Preparation of Trail Balance	6
V	Final Accounts: Preparation of Final Accounts – Trading Account, Profit and Loss Account and Balance Sheet (Simple Problem)	6

Text Book:

1. M.C. Shukla, T.S. Grewal, Advanced Accounts, Eleventh Edition, S. Chand & Company(Pvt). Ltd,

Reference Books:

1. T.S. Reddy & A. Murthy - Financial Accounting, Margham Publications, Chennai, 6th Edition, 2018.

2. N. Vinayakam, P.L. Mani, K.L. Nagarajan, Principles of Accountancy, EURASIA Publishing House (Pvt) Ltd., New Delhi, Revised Edition, 2002.

3. T.S. Grewal, Introduction to Accountancy, S. Chand & Company Pvt. Ltd

Web Resources:

1. https://icmai.in/upload/Students/Syllabus-2012/Study_Material_New/Foundation-Paper2-Revised.pdf

2. <https://unacademy.com/content/ca-foundation/study-material/accountancy/final-accounts-of-soleproprietors/>

3. <https://www.mca.gov.in/content/mca/global/en/acts-rules/ebooks/accounting-standards.html>

Course Outcomes

Upon successful completion of this course, the student will be able to

CO No.	CO Statement
CO1	understand the procedures involved in the accounting process and its applications.
CO2	get equipped with the accounting process and prepare the final accounts of trading and non-trading concerns in accordance with Indian accounting standards
CO3	demonstrate an understanding on the circumstances giving rise to problems during the preparation of financial statements
CO4	acquire conceptual knowledge and skill of recording financial transactions and preparation of reports in computerized accounting environment
CO5	acquire the basic accountancy knowledge in classifying the business transactions and record them in the accounting books

Course Coordinator: Dr. Y. Moydheen Sha

Semester	Course Code	Course Category	Hours	Credits	Marks for Evaluation		
					CIA	ESE	Total
V	25UMAVAC2	Value Added Course - II	30	-	-	100	100
Course Title		Canva - Practical					

SYLLABUS	
List of Practicals	
<ol style="list-style-type: none"> 1. Designing a Professional Brochure 2. Creating an Eye-Catching Poster 3. Making a Custom Certificate 4. Designing a Business Card 5. Crafting an Engaging Presentation 6. Creating a Conference Invitation 7. Designing a Stage Banner for Events 8. Making an Effective Advertisement 9. Creating Stunning Social Media Posts 10. Editing and Designing a Short Video 	

Web Resources: https://d31kydh6n6r5j5.cloudfront.net/uploads/sites/158/2020/06/Canva-Userguide.pdf https://static1.squarespace.com/static/5f62665c32c509115533985c/t/63f65e3e62568a384dc7dae7/1677090369793/Canva+Basics+Guide+PDF.pdf https://www.tyfucymru.co.uk/media/1947/200402-vm-v1-canva-user-guide-150201.pdf https://www.youtube.com/watch?v=un50Bs4BvZ8 https://www.youtube.com/watch?v=BrUrsnO8OYg
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Course Outcomes	
Upon successful completion of this course, the student will be able to	
CO No.	CO Statement
CO1	identify the key design principles for creating brochures, posters, and business cards.
CO2	apply appropriate design elements to develop visually appealing presentations, invitations, and stage banners.
CO3	analyze different templates and layouts to create effective advertisements and social media posts.
CO4	evaluate the effectiveness of design choices in certificates, invitations, and promotional materials.
CO5	create professional-quality visual content such as videos, posters, and marketing materials using design tools.

Course Coordinator: Mr. T. Rabeeh Ahamed

M.SC. MATHEMATICS

Semester	Course Code	Course Category	Hours	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	25PMAVAC1	Value Added Course - I	30	-	-	100	100

Course Title | MS Excel with AI Tools - Practicals

This syllabus is designed to help learners master Excel while integrating AI tools to enhance productivity, data analysis, and automation.

Course Objectives: -

- Develop advanced Excel skills for data analysis, visualization, and reporting.
- Learn to integrate AI tools with Excel to automate tasks, analyze data, and generate insights.
- Apply AI-powered techniques to solve real-world business problems using Excel.
- Gain hands-on experience with AI tools like Chat GPT, and Excel add-ins.

List of Practicals

- 1) Excel Basics and Interface Overview
- 2) Navigating Excel
- 3) Basic formulas and functions (SUM, AVERAGE, IF, etc.)
- 4) Formatting and data organization
- 5) Introduction to AI Tools for Excel
- 6) How AI enhances Excel workflows
- 7) Setting up AI tools for Excel
- 8) Advanced Formulas and Functions
- 9) VLOOKUP, HLOOKUP, INDEX, MATCH
- 10) Logical functions (IF, AND, OR)
- 11) Text functions (CONCATENATE, LEFT, RIGHT, MID)
- 12) Data Validation and Conditional Formatting
- 13) Using AI to suggest formatting and validation rules
- 14) Removing duplicates, handling missing data
- 15) AI tools for automated data cleaning

Text Book:

Excel 2025 by Lucas Brantley, 2025

Reference Books:

- 1) Microsoft Excel 365 User's Guide: Master Excel From Basics to AI-Powered Insights and Productivity by Herbert D. Smith, 2025
- 2) Excel Evolution:: Blending AI and Spreadsheets for Peak Performance by Zayn Aldric 2024

Web Resources:

<https://www.microsoft.com/en-us/microsoft-365/excel/ai-for-excel>
<https://www.geeksforgeeks.org/top-excel-ai-tools/>
<https://gptexcel.uk/>
<https://appsource.microsoft.com/en-us/product/office/wa200005401?tab=overview>
<https://aiexcelbot.com/>

Course Outcomes	
Upon successful completion of this course, the student will be able to	
CO No.	CO Statement
C01	Remember the basic concepts of MS Excel
C02	Understand the deep insight of formulas using MS Excel
C03	Apply the AI Tools for solving problems using MS Excel.
C04	Analyse the difference between the MS Excel formulas and AI Tools
C05	Solve the problems easily and quickly using MS Excel with AI Tools

Course Coordinator: Dr. M. Mohammed Jabarulla