

**A.T.V.V. Mandal's**  
**B. D. KALE MAHAVIDYALA, GHODEGAON,**  
**Tal- Ambegaon, Dist-Pune, 412408.**  
**Academic Year 2024 – 2025**

**Subject: CA-101T Problem solving using C**

**Class : FYBBA(CA)**

**Semester I**

<b>Unit</b>	<b>Topics</b>
1	'C' Fundamentals
2	Functions

**Objectives:**

- 1.To introduce the foundations of computing, programming and problem- solving using computers.
- 2.To develop the ability to analyze a problem and devise an algorithm to solve it.
3. To formulate algorithms, pseudocodes and flowcharts for arithmetic and logical problems
4. To understand structured programming approach.
5. To develop the basic concepts and terminology of programming in general.
6. To implement algorithms in the 'C' language.
7. To test, debug and execute programs.

**Outcomes:**

1. Define algorithms and explain their characteristics
2. Formulate algorithm and draw flow chart to solve a given problem
3. Explain use of appropriate data types, control statements
4. Demonstrate ability to use top-down program design

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**Academic Year 2024 – 2025**

**Subject: CA-102T Database Management System**

**Class : FYBBA(CA)**

**Semester I**

<b>Unit</b>	<b>Topics</b>
1	Introduction to Databases Management and Data Models
2	SQL (Structured Query Language)

**Objective:**

1. To make students understand the concept of Database Management System
- 2.To develop Database application

**Outcomes**

- 1.To understand the basic concepts and the applications of database systems.
- 2.To formulate Queries using SQL and Relational Formal Query Languages

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**Academic Year 2024 – 2025**

**Subject: OE-103-MTS Business Mathematics**

**Class : FYBBA(CA)**

**Semester I**

<b>Unit</b>	<b>Topics</b>
1	Ratio, Proportion and Percentage: Ratio & Profit and Loss
2	Interest and Annuity & Shares and Mutual Funds

**Objectives:**

1. To understand the role and importance of Mathematics in various business situations and while developing software.
2. To develop skills related with basic mathematical technique
3. Be able to communicate mathematical/logical ideas in writing
4. Be familiar with several subfields of mathematics (e.g., numerical analysis, Business situations, operations research).
5. To increase price determination ability for financial analysis

**Outcome:**

- 1.Explore theoretical approach in practical situations
- 2.To have better problem-solving skills
- 3.To use effectively all the concepts in business
- 4.It will help students to develop the logic and quantitative thinking

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**Academic Year 2024 – 2025**

**Subject :OE-103-STS Business Statistics – I**

**Class : FYBBA(CA)**

**Semester I**

<b>Unit</b>	<b>Topics</b>
1	Frequency Distribution
2	Measure of Central Tendency
3	Measure Dispersion

**Objectives:**

- 1.To understand role and importance of statistics in various business situations
2. To develop skills related with basic statistical technique
3. To learn some elementary statistical methods for data collection, presentation and analysis of data.
4. To develop right understanding regarding data interpretation
5. To familiarize the students with applications of Statistics in Business and Management

**Outcome:**

- 1.understand basic concepts in statistics
2. collect, present, analyze and interpret the data and graphs
3. deal data in business problems
4. evaluate feasibility business problems using statistical techniques
5. prepare business report using various statistical techniques

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**Academic Year 2024 – 2025**

**Subject: CA101VSC Office Automation tools**

**Class : FYBBA(CA)**

**Semester I**

<b>Unit</b>	<b>Topics</b>
1	Introduction
2	Spread sheet package

**Objectives:**

1.To make students understand and learn various Office Automation Tools like MSWord, MS Excel & MS PowerPoint.

**Outcomes:**

1.MSWord, MS Excel & MS PowerPoint.

2.Use of modern office equipment in business or any office is intended to facilitate faster processing and delivery of information, accurate analysis of facts and figures, higher efficiency and productivity, and elimination of fatigue arising from performing repetitive jobs manually. Office Automation Tools help in Word processing, Worksheet and presentation

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**Academic Year 2024 – 2025**

**Subject: CA-101SEC Programming Principles & Algorithm      Class : FYBBA(CA)**

**Semester I**

<b>Unit</b>	<b>Topics</b>
1	Introduction
2	Recursion

**Objectives:**

1. To make students understand the concept of Algorithm and Flowchart.
2. To develop Analytical / Logical Thinking and Problem-Solving capabilities
3. To Know the Basics of Programming

**Outcome:**

1. To understand how to use programming in day-to-day Applications
2. To apply skills of algorithm and flowchart to solve the businesses problem

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**Academic Year 2024 – 2025**

**Subject: CA-101AEC Business Communication Skills-I**

**Class : FYBBA(CA)**

**Semester I**

<b>Unit</b>	<b>Topics</b>
1	Introduction
2	Writing Skills

**Objectives:**

1. To understand what the Need and Significance of communication in personal and business world is
2. To understand system of communication and their utility

**Outcome:**

1. To understand the concept, process, and importance of communication
2. To apply gain knowledge of media of communication in businesses
3. To develop skills of effective communication - both written and oral

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**Academic Year 2024 – 2025**

**Subject: CA101VEC Environmental Awareness**

**Class : FYBBA(CA)**

**Semester I**

<b>Unit</b>	<b>Topics</b>
1	Introduction
2	Various Government initiatives for conservation of Environment

**Objectives:**

- 1.To provide an opportunity to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment
- 2.To develop conscious towards a cleaner and better managed environment

**Outcome:**

- 1.To understand Environmental pollution.
2. To apply and promote green practices at home and at work

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**Academic Year 2024 – 2025**

**Subject: CA-201T Advance C Programming**

**Class : FYBBA(CA)**

**Semester II**

<b>Unit</b>	<b>Topics</b>
1	Arrays, Strings, and Pointers
2	Structures and Basic File Handling

**Objectives:**

- 1.To provide advanced features in C Programming in problem solving.
2. To learn advanced data types in C programming to solve problems.
3. To understand built-in library functions

**Outcome:**

- 1.write C programs using pointers, structures and unions
2. create Pre-processor directives.
- 3 .perform strings using library functions
- 4 .write C programs using pointers, structures and unions

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**Academic Year 2024 – 2025**

**Subject: CA-202T RDBMS**

**Class : FYBBA(CA)**

**Semester II**

<b>Unit</b>	<b>Topics</b>
1	Introduction to RDBMS and PL-SQL
2	Transaction Management
3	Concurrency Control & Recovery System

**Objectives:**

1. To understand the basic concepts and the applications of RDBMS.
2. Enables student to write PL/SQL programs that use procedure, function, package, cursor and trigger

**Outcome:**

- 1.understand the concept of Relational Database Management System.
- 2 .develop PL/SQL programs, functions, procedures, triggers, cursors, packages etc.
- 3 .understand Transaction management and concurrency control.

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**Subject: CA-201MI PPM**

**Class : FYBBA(CA)**

**Semester II**

<b>Unit</b>	<b>Topics</b>
1	Introduction
2	Functions of Management

**Objectives:**

- 1.To understand basic concepts regarding org. Business Administration
2. To examine various management principles
3. To develop managerial skills among the students

**Outcome:**

- 1.use of available resources so as to achieve productive results at minimum cost and maximum profits
2. use effectively all the concepts in business
3. effective administration by channelizing resources (human and material)
4. manage crucial situations

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**Subject: OE-101-CA Introduction to Data Science**

**Class : FYBBA(CA)**

**Semester II**

<b>Unit</b>	<b>Topics</b>
1	Introduction
2	Statistics for Data Science
3	Data science Models and Tasks
4	Data Quality and Pre-processing
5	Data Visualization

**Objectives:**

- 1.To understand need of Data Science
2. To Know role of Statistics in Data Science
3. To know Data Science Models and Tasks

**Outcome:**

- 1.define Data Science Tasks and Models and Lifecycle
2. apply Prep-processing and visualization Techniques

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**Subject: OE-102-IT Tally Prime**

**Class : FYBBA(CA)**

**Semester II**

<b>Unit</b>	<b>Topics</b>

**Objectives:**

- 1.To understand Fundamentals of Accounts
2. To study Basic Principles of Accounts (Golden Principles of Accountancy)
3. To study Ledger, Transaction Entries.
4. To understand the final effect of each transaction in Balance Sheet and Profit & Loss Accounts.

**Outcome:**

- 1.Create Ledgers in Tally Prime
- 2 .Pass the transaction Entries of Payment, Receipt, Contra, Sales, Purchase
- 3 .Pass the entries with automatic calculation of GST.
4. Maintain Accounts only and Accounts with Inventory

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**Subject: CA-201VSC Web Technology**

**Class : FYBBA(CA)**

**Semester II**

<b>Unit</b>	<b>Topics</b>
1	HTML
2	Style sheets
3	JavaScript

**Objectives:**

1. To know and understand the concept of web designing.
2. To understand how to develop web-based applications using HTML and CSS

**Outcome:**

- 1.get acquainted with website designing.
2. develop static web site using HTML and CSS.

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**Subject: CA201SEC E-Commerce**

**Class : FYBBA(CA)**

**Semester II**

<b>Unit</b>	<b>Topics</b>
1	Introduction to Electronic Commerce
2	Electronic payment System
3	E-com Security

**Objectives:**

1. To acquaint the learner with knowledge on the basics of E-commerce.
2. To develop knowledge on various types of E-commerce business.
3. To Develop knowledge on various modes of online transaction for crating convenience in day-to-day financial transactions and promoting cashless economy.
4. To introduce the learner to the concept of Electronic Data Inter exchange and its significance.

**Outcome:**

1. develop knowledge on various types of E-commerce business.
- 2 .develop knowledge on various modes of online transaction for crating convenience in day-to-day financial transactions and promoting cashless economy.
3. Understand the various forms of ecommerce

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**Subject: CA-201AEC Business Communication Skill-II**

**Class : FYBBA(CA)**

**Semester II**

<b>Unit</b>	<b>Topics</b>
1	Oral Communication
2	Personality Development and communication skills.

**Objectives:**

1. Develop the skills needed for approaching different types of interviews.
2. Help the students in developing effective presentation skills.
3. Enhance the skills of public speaking amongst students.
4. Enable students to understand their own strengths and weaknesses, opportunities, and challenges.

**Outcome:**

- 1.Improve oral communication and presentation skills.
- 2 .Understand and deal with different types of interviews.
- 3 .Students can learn how to identify their strengths and weaknesses, and how to focus on improving those areas.

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**Subject: CA-201VEC Democracy Awareness and Gender Sensitisation**  
**Class : FYBBA(CA)**

**Semester II**

Unit	Topics
1	Introduction to Democracy and democratic values and principles
2	Challenges to Democracy and corrective measures.
3	Understanding gender-related concepts, gender-based violence and democracy
4	Addressing challenges

**Objectives:**

1. To make students understand the fundamental principles of democracy and their relationship with gender.
2. To foster democratic values like tolerance and empathy in students to tackle gender-based issues and become active, informed citizens.
3. To encourage critical thinking by making students aware of their biases and create readiness for diversity and inclusion.

**Outcome:**

1. Students will understand the fundamentals of democracy, including equality, justice and human rights and will be able to challenge negative attitudes and stereotypes about all genders (various gender identities identified in contemporary society).
2. Students will develop empathy and understanding democratic values and can develop a sense of responsible citizenship and healthy relations.
3. Students will develop critical thinking and analytical skills, fostering them to evaluate democratic issues and can create increased readiness for diversity and inclusion.
4. Students will be inspired to become active citizens, by engaging in democratic process



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