

A.T.V.V. Mandal's
B. D. KALE MAHAVIDYALA, GHODEGAON,
Tal- Ambegaon, Dist-Pune, 412408.
Academic Year 2018 – 2019

Subject: Modern operating environment and MS-office

Class: F.Y.B.B.A(CA)

Semester I

Unit	Topics
1	Introduction to computer
2	Structure and Working of Computer
3	Input/Output Devices
4	Computer Memory
5	Computer Language and Software
6	Operating System
7	Networking
8	MS-Office

Objectives:

1. Understanding the functions and characteristics of operating system, including Windows and Linux.
2. Using MS-Office applications, such as Word, Excel, and PowerPoint, to create professional-quality documents, spreadsheets, and presentations.

Outcomes:

1. Students will be able to use MS-Office packages to create, professional documents, spreadsheets, and presentations.
2. Students will learn to automate office tasks using MS-Office tools and techniques.

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B. D. KALE MAHAVIDYALA, GHODEGAON,
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Academic Year 2018 – 2019

Subject: Finance Accounting.

Class: F.Y.B.B.A.(CA)

Semester I

Unit	Topics
1	Introduction
2	Conceptual Frame work
3	Recording of Transactions
4	Preparation of Final Accounts
5	Introduction to company final Accounts
6	Accounting in computerized Environment.

Objectives:

1. To develop right understanding regarding role and importance of monetary and financial transactions in business.
2. To cultivate right approach towards classifications of different transactions and their implications.
3. To develop proficiency preparation of basic financial as to how to write basis accounting statement - Trading and P&L.

Outcomes:

1. Students will understand the role and significance of monetary and financial transactions in business operations.
2. They will be able to classify various financial transactions and interpret their business implications.
3. Students will gain the skills to prepare basic accounting statements such as Trading and Profit & Loss accounts.

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Academic Year 2018 – 2019

Subject: Programming principles and algorithm

Class: F.Y.B.B.A.(CA)

Semester I

Unit	Topics
1.	Introduction
2.	Simple Arithmetic Problems
3.	Recursion
4.	Algorithm using arrays
5.	Sorting and Searching

Objectives:

1. Understand the basic structure of programming languages, including data types, control structures, and functions.
2. Learn algorithm design methods, such as greedy, divide and conquer, dynamic programming, backtracking, and branch and bound.
3. Understand the difference between tractable and intractable problems, and introduce P and NP classes.

Outcomes:

1. Explore algorithmic approaches to problem-solving and implement algorithms in programming languages like C.
2. Develop efficient, reliable, robust, and cost-effective software solutions using programming principles and algorithms.

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Academic Year 2018 – 2019

Subject: Business Communication

Class: F.Y.B.B.A.(CA)

Semester I

Unit	Topics
1	Introduction to Communication
2	Methods of Communication
3	Oral Communication
4	Business Correspondence
5	Information Technology for Communication
6	Job Seeking Skills

Objectives:

1. Develop technical communication skills for efficient workplace communication.
2. Provide knowledge of various media of communication.
3. Develop business communication skill through application and exercises.

Outcomes:

1. Utilize critical thinking, decision-making, and problem-solving techniques to promote effective business communications.
2. Build good relationships between employers and staff, increasing productivity through effective business communication.

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Academic Year 2018 – 2019

Subject: Principles of Management

Class: F.Y.B.B.A.(CA)

Semester I

Unit	Topics
1	Nature of Management
2	Evolution of Management Thoughts P I-II
3	Function of Management part I-II
4	Strategic Management
5	Recent Trends management

Objective:

1. Understand the basic concepts and principles of management.
2. Learn management functions, including planning, organizing, leading, and controlling.
3. Understand the role of management in different organizational contexts.

Outcomes:

1. Understand the challenges and opportunities of managing in a global environment of managing in a global environment.
2. Apply decision-making techniques and tools to solve management problems.

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Academic Year 2018 – 2019

Sub: Procedure oriented programming C

Class: F.Y.B.B.A(CA)

Semester II

Unit	Topics
1	Introduction to C language
2	Managing I/O Operations
3	Decision making & looping
4	Functions & Pointers
5	Arrays & Strings
6	Structures & Union+
7	C Preprocessor
8	File Handling

Objectives:

1. Understand the basic concepts and principles of procedure-oriented programming using C.
2. Develop problem-solving skills using C programming.
3. Understand the syntax and semantics of the C programming language.

Outcomes:

1. Understand the basic concepts of programming, including data types, variables, operators, controls structures, functions, and arrays
2. Understand the principles of software development and apply them to C programming projects.

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Academic Year 2018 – 2019

Subject: Data Basic Management system

Class: F.Y.B.B.A(CA)

Semester II

Unit	Topics
1	Introduction to RDBMS
2	PLSQL
3	Transaction
4	Concurrency Control
5	Recovery System

Objectives:

1. Understands the fundamental concepts and principles of database management systems.
2. Understands data modelling, database design, and data normalization.
3. Learn to use Structured Query Language (SQL) for data manipulation and querying.

Outcomes:

1. Design and implement entity-relationship models, database design, and data normalization.
2. Write SQL queries to create, modify, and query databases.
3. Understand data integrity constraints and database security measures.

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Academic Year 2018 – 2019

Subject: Organization Behavior

Class: F.Y.B.B.A(CA)

Semester II

Unit	Topics
1	Fundamental Of Organization Behavior
2	Attitude Values and Motivation
3	Personality
4	Work Stress
5	Conflict in Organizations
6	Group Behavior and Changes in Organization

Objectives:

1. Understand the fundamental concepts and principles of organizational behaviour.
2. Understand the role of leadership.
3. Motivation, and communication in organizational change and conflict.

Outcomes:

1. Analyse organization structure, culture and power dynamics.
2. Develop effective communication and teamwork skills to enhance organizational.

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Subject: Computer Application in Statistics

Class: F.Y.B.B.A(CA)

Semester II

Unit	Topics
1	Introduction to Statistical function of Excel
2	Methods of Counting
3	Elements of Probability Theory
4	Standard Discrete Distributions
5	Simulation Techniques

Objectives:

1. Understand the application of computers in statistical analysis.
2. Understand the importance of computer applications in statistical analysis.

Outcomes:

1. Apply statistical concepts and techniques to analyze data and interpret results.
2. Develop and apply statistical models to real-world problems.

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Academic Year 2018 – 2019

Subject: E-Commerce Concepts

Class: F.Y.B.B.A(CA)

Semester II

Unit	Topics
1	Introduction to Electronic Commerce
2	Building own website
3	Internet and Extranet
4	Electronic payment
5	Technology Solution
6	E-com Security

Objectives:

1. Understand the role of technology in e-commerce, including electronic payment systems and security measures.
2. Develop skills in designing and developing e-commerce websites and applications.
3. Understand the marketing and management aspects of e-commerce.

Outcomes:

1. Apply critical thinking skills to analyze e-commerce opportunities and challenges.
2. Develop skills in e-commerce marketing, including search engine optimization, social media marketing, and email marketing.

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Academic Year 2018 – 2019

Subject: Relational data basic management system

Class: S.Y.B.B.A(CA)

Semester III

Unit	Topics
1	Introduction to popular RDBMS product and their features
2	PISQL
3	Transaction Management
4	Concurrency Control
5	Recovery System

Objectives:

1. Enables students to understand relational database concepts and transaction management concepts in database system.
2. Enables student to write PL/SQL programs that use: procedure, function, package, cursor, and trigger

Outcomes:

1. Students will understand key relational database concepts and transaction management in database systems.
2. They will be able to design and write PL/SQL programs using procedures, functions, packages, cursors, and triggers effectively.

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Academic Year 2018 – 2019

Subject: Data Structure Concepts

Class: S.Y.B.B.A(CA)

Semester III

Unit	Topics
1	Basic Concept and Introduction to Data Structure
2	Searching and Sorting Techniques
3	Linked List
4	Stack and Queue
5	Trees
6	Graphs

Objectives:

1. Learn to design and implement various data structures, such as arrays, linked lists, stacks, queues, trees, and graphs.
2. Develop skills in analysing and solving problems using data structures.
3. Understand the trade-offs between different data structures and algorithms.

Outcomes:

1. Design and implement various data structures, such as trees and graphs.
2. Analyse the time and space complexity of algorithms and data structures.
3. Apply data structures to solve real-world problems, including searching, sorting, and manipulating data.

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Academic Year 2018 – 2019

Subject: Business Mathematics

Class: S.Y.B.B.A(CA)

Semester III

Unit	Topics
1	Ratio, Proportion and Percentage Ratio
2	Profit and Loss Terms and Formulae
3	Interest Simple Interest, Compound Interest
4	Matrices and Determinants
5	Linear Programming Problem
6	Transportation problem

Objectives:

1. To understand role and importance of Mathematics in various business situations and while developing software.
2. To develop skills related with basic mathematical technique

Outcomes:

1. Students will understand the importance and application of mathematics in business decisions and software development.

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Subject: Software Engineering

Class: S.Y.B.B.A(CA)

Semester III

Unit	Topics
1	Introduction to system Analysis
2	Requiriement Analysis
3	Introduction to Software Engineering
4	Software Development Methodologies
5	Analysis and Design Tools
6	Software Testing
7	Structured System Design

Objectives:

1. Understand the principles and practices of software engineering.
2. Develop skills in software requirements gathering, analysis, and specification.

Outcomes:

1. Develop and execute test plans to ensure software quality and reliability.
2. Understand various software development methodologies, including Agile, Scrum, and Waterfall.

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Subject: OOPS using C++

Class: S.Y.B.B.A(CA)

Semester IV

Unit	Topics
1	Introduction to C++
2	Token, Expressions and Control structures
3	Functions in C++
4	Classes and Objects
5	Inheritance
6	Polymorphism
7	Managing console I/O operations
8	Working with Files
9	Templates

Objectives:

1. Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.
2. Enable students to write programs using C++ features like operator overloading, constructor and destructor, inheritance, polymorphism, and exception handling.

Outcomes

1. Understand fundamental object-oriented programming concepts and class design principles.
2. Develop C++ programs using features like operator overloading, constructors/destructors, inheritance, polymorphism, and exception handling.

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Subject: Programing in Visual Basic

Class: S.Y.B.B.A(CA)

Semester IV

Unit	Topics
1	Getting Started with V.B
2	Constants, variables, Operators, Control Structurce, Looping & Array
3	Working with controls
4	Working with ActiveX Controls & Menus
5	Working with Database

Objectives:

1. Understand the basics of Visual Basic (VB) programming language.
2. Learn to design and develop Windows-based applications using VB.
3. Develop skills in writing efficient and effective code using VB.

Outcomes:

1. Create Windows-based applications using VB.
2. Write efficient and effective code using VB.

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Subject: Computer networking

Class: S.Y.B.B.A(CA)

Semester IV

Unit	Topics
1	Basics of Computer Networking
2	Network Models
3	Transmission Media
4	Wired and Wireless LANs
5	Network Connectivity Devices
6	Internet Basics

Objectives:

1. To gain knowledge about Computer Networks concepts.
2. To know about working of networking models, addresses, transmission medias and connectivity devices.
3. To acquire information about network security and cryptography.

Outcomes

1. Understand key concepts of computer networks.
2. Explain networking models, addressing, media, and devices.
3. Apply basic knowledge of network security and cryptography.

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Subject: Enterprise resource planning

Class: S.Y.B.B.A(CA)

Semester IV

Unit	Topics
1	ERP: An Overview
2	Enterprise modeling & Integration for ERP
3	ERP and related Technologies
4	ERP Implementation
5	Techonlogies in ERP System
6	The Erp Domin
7	ERP Present & Future

Objectives:

1. Understand the concepts and principles of Enterprise Resource Planning (ERP)
2. Develop skills in analyzing business requirements and configuring ERP systems.
3. Learn to evaluate and select ERP systems.

Outcomes:

1. Understand the principles and concepts of ERP, including its benefits and challenges.
2. Understand the implementation process of ERP systems, including planning, configuration, and testing.

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Academic Year 2018 – 2019

Subject: Human Resource management

Class: T.Y.B.B.A(CA)

Semester IV

Unit	Topics
1	Introduction To HRM Definition and Concept of HRM and Personnel Management
2	Performance Appraisal, Training and development
3	Wages and salary Administration Methods of Wage payment
4	Grievance and Discipline
5	The E-HR Nature of E-HRM,

Objectives:

1. Understand the fundamental concepts and principles of Human Resource Management (HRM)
2. Understand the importance of employee relations, motivation, and engagement in HRM.
3. Learn about the various functions of HRM, including recruitment, selection, training, and development.

Outcomes:

1. Understand the principles and concepts of HRM, including its role in organizational success.
2. Understand the importance of training and development in HRM, including methods and techniques.

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Academic Year 2018 – 2019

Subject: Java Programming

Class: T.Y.B.B.A(CA)

Semester V

Unit	Topics
1	Introduction to java
2	Classes and Objects
3	Collection
4	File and Exception handling
5	Applet, AWT & Swing programming

Objectives:

1. Understand the features and advantages of Java programming language.
2. Learn the structure of a Java program and basic syntax.
3. Understand Java Virtual Machine (JVM), Java Development Kit (JDK), and Java Runtime Environment (JRE).

Outcomes:

1. Students will be able to write and execute basic Java programs.
2. Students will understand platform independence and Java's architecture.
3. Students will be able to use variables, data types, operators, and control structures

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Academic Year 2018 – 2019

Subject: Web technologies

Class: T.Y.B.B.A(CA)

Semester V

Unit	Topics
1	Web Essentials
2	Markup Languages
3	Java Script
4	Introduction Php
5	Function and String php
6	Arrays in php
7	Memory Management
8	File System
9	I/O System

Objectives:

1. To know & understand concepts of internet programming.
2. To understand how to develop web-based applications using JavaScript.

Outcomes:

1. Students will gain a clear understanding of internet programming concepts.
2. They will be able to develop interactive and dynamic web-based applications using JavaScript.

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Academic Year 2018 – 2019

Subject: Dot net programming

Class: T.Y.B.B.A(CA)

Semester V

Unit	Topics
1	Introduction to .net framework
2	Introduction to VB .Net
3	Object oriented programming in VB .net
4	Architecture of ADO .Net
5	Crystal Report

Objectives:

- To understand the fundamentals of .NET programming.
- To explore the advantages and key features of the .NET platform.
- To familiarize students with the Common Language Runtime (CLR) and the .NET class library.

Outcomes:

- Learners will explain the core components of the .NET framework.
- Learners will be able to develop basic applications using .NET technologies.
- Learners will describe the lifecycle of a .NET application.

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Academic Year 2018 – 2019

Subject: Object oriented Software Eng

Class: T.Y.B.B.A(CA)

Semester V

Unit	Topics
1	Object Oriented Concepts, Modeling and UML
2	Basic and Advanced Structural Modeling
3	Basic Behavioral And Architectural Modeling
4	Object Oriented Analysis
5	Object Oriented Design

Objectives:

1. To understand the fundamentals of object modelling
2. To understand and differentiate Unified Process from other approaches.
3. To improve the software design with design patterns.
4. To test the software against its requirements specification.

Outcomes:

1. Students will be able to give Design Specifications for Project.
2. Students will acquire Knowledge in Basic Modeling.
3. Students will acquire Project Management Skills.

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Academic Year 2018 – 2019

Subject: Adv web technologies

Class: T.Y.B.B.A(CA)

Semester VI

Unit	Topics
1	Introduction to Object Oriented Programming in PHP
2	Web Techniques
3	Databases
4	XMI
5	Web Services
6	Ajax

Objectives:

3. To know & understand concepts of internet programming.
4. To understand how to develop web-based applications using JavaScript.

Outcomes:

3. Students will gain a clear understanding of internet programming concepts.
4. They will be able to develop interactive and dynamic web-based applications using JavaScript.

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Academic Year 2018 – 2019

Subject: Adv java programming

Class: T.Y.B.B.A(CA)

Semester VI

Unit	Topics
1	JDBC
2	Networking
3	Servlet & Jsp
4	Multithreading
5	Java Basic & RMI

Objectives -:

1. To know the concept of Java Programming.
2. To understand how to use programming in day-to-day applications.
3. To develop programming logic.

Outcomes:

1. Students will know the concepts of JDBC Programming.
2. Students will know the concepts of Multithreading and Socket Programming.
3. Students will know the concepts of Spring and Hibernate.
4. Students will develop the project by using JSP and JDBC.
5. Students will develop applications in Spring and hibernate

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Academic Year 2018 – 2019

Subject: Software testing

Class: T.Y.B.B.A(CA)

Semester VI

Unit	Topics
1	Software Testing
2	Approaches to testing
3	Testing for Specialized Environments
4	Software testing Strategies and Software
5	Specialized Testing & Testing tools metrics

Objectives:

1. To provide learner with knowledge in Software Testing techniques.
2. To understand how testing methods can be used as an effective tool in providing quality assurance for software.
3. To provide skills to design test case plan for testing software.

Outcomes:

1. Students will be introduced to testing tools.
2. Students will acquire Knowledge of Basic SQA.
3. Students will be able to design basic Test Cases

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Academic Year 2018 – 2019

Subject: Recent Trends and IT

Class: T.Y.B.B.A(CA)

Semester VI

Unit	Topics
1	Software Process And Project Metrics, Analysis Concepts and Principles
2	Distributed Databases
3	Data Warehouse
4	Network Security
5	Computing and Informatics

Objectives

1. To introduce upcoming trends in Information technology.
2. To study Eco friendly software development concepts.
3. To provide a strong foundation of fundamental concepts in Artificial Intelligence.
4. To evaluate the performance of various data mining task.
5. To understand Data analytics using Spark Programming.

Outcomes:

1. On completion of the course, student will be able
2. To discuss the basic concepts AI.
3. To apply basic, intermediate, and advanced techniques to mine the data.
4. To provide an overview of the concept of Spark programming



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