A.T.V.V. Mandal's

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Tal- Ambegaon, Dist - Pune, 412408.

Academic Year 2025 – 2026

Subject: **Data Structure** **Class : SYBBA(CA)**

Semester I

Unit	Topics
1	Introduction to Data Structures
2	Linear Data Structure
3	Linked List
4	Stack and Queue
5	Tree and Graph

Objectives:

1 To introduce the fundamental concepts and classifications of data structures.

2 To develop an understanding of linear and non-linear data structures such as arrays, linked lists, stacks, queues, trees, and graphs.

3 To enable students to analyze the time and space complexity of algorithms using asymptotic notations.

4 To develop the ability to implement various sorting and searching algorithms.

5 To apply data structure concepts to solve real-world problems through structured programming.

Outcomes:

1 Explain and differentiate between various data structures and their real-life applications.

2 Analyze and evaluate the efficiency of different algorithms using Big O and other notations.

3 Implement linear data structures like arrays, stacks, and queues using static and dynamic memory allocation.

4 Design and implement linked lists and perform various operations on them.

5 Apply tree and graph structures for problem-solving and implement traversal and search algorithms.

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Academic Year 2025 – 2026

Subject: **PHP** **Class : SYBBA(CA)**

Semester I

Unit	Topics
1	PHP Basics & Control structure and loops
2	Functions, Objects and Errors
3	More with Forms
4	MySQL Database Overview

Objective:

1 Understand how server-side programming works on the web.
2 Using PHP built-in functions and creating custom functions
3 Understanding POST and GET in form submission.
4 How to receive and process form submission data.
5 Read and process data in a MySQL database.

Outcomes

1 Understand the basics of server-side scripting using PHP.

2 Develop dynamic web pages using PHP.

3 Work with PHP functions, arrays, and strings effectively.

4 Implement file handling and session management.

5 Connect and interact with databases using PHP and MySQL.

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Academic Year 2025 – 2026

Subject: **Introduction to Cyber Security** **Class : SYBBA(CA)**

Semester I

Unit	Topics
1	Introduction to Cyber Crime and Cyber Security
2	Cybercrime Tools, Techniques and Cyber Laws

Objectives:

1 Understand basic concepts and terms in cyber security.

2 Learn about privacy and related legal protections.

3 Grasp fundamental encryption principles.

4 Understand basics of Cyber laws and Indian IT Act.

Outcome:

CO1 Define and explain essential cybersecurity concepts, threats, and preventive strategies.

CO2 Interpret privacy principles and identify relevant laws and regulations protecting digital data.
CO3 Apply basic encryption methods to secure data and understand their role in cybersecurity.

CO4 Good understanding of cyberlaws, cybercrime and punishments in Indian Scenario.

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Academic Year 2025 – 2026

Subject: **Web development tools** **Class : SYBBA(CA)**

Semester I

Unit	Topics
1	Introduction to WordPress
2	Content Management Through WordPress

Objectives:

1 To Understand the Fundamentals of WordPress

2 To Create and Manage Website Content through WordPress

3 To make students learn about how to set up and configure a WordPress Website

Outcome:

1 Explain the purpose, features, and evolution of WordPress

2 Create, format, and manage content using posts, pages, categories, and tags in WordPress.

3 Publish and manage a responsive, user-friendly, and content-rich website suitable for business, blogging, or personal use

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Academic Year 2025 – 2026

Subject: **Project based on Web Applications** **Class : SYBBA(CA)**

Semester I

Unit	Topics
1	Abstract
2	Introduction:
3	System Analysis:
4	System Design:
5	Implementation Details:
6	Testing:
7	Conclusion and Recommendations
8	Future Scope
9	Bibliography and References
10	Abbreviations

Objectives:

1. Learn core web technologies and client-server basics.

2. Build web applications using front-end Tools.

3 Develop teamwork and problem-solving skills through real-world projects.

Outcome:

CO1 Develop responsive web pages using Web Applications.

CO2 Build web applications with front-end Validations.

CO3 Use of APIs for dynamic content handling.

CO4 Collaborate on and deploy real-world web projects.

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