

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan**Name of the teacher:** Miss Pallavi M. Dessai**Programme:** B.Sc. Computer Science Entire (BCS) -II Semester-I**Subject:** Computer Science**Course Title:** Programming in C++

Month Aug-1			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit I: Problem Solving Aspects	Introduction to problem solving using computers.
2	16	18		Problem solving steps. Algorithms-definition, characteristics,examples, advantages and limitations. Flowcharts - definition, notations,examples, advantages and limitations, Comparison with algorithms.
Month Sep-1			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit II: Introduction to C++	Introduction to C++ Difference between C & C++ Structure of C++ Program Tokens, Data types, Variables, Operators
2	16	18		
Month Oct-1			Module/Unit:	Sub-units planned
2	16	18	Unit III: input output	cout statement, cin statement built functions: sqrt(), pow(), abs(), isalpha(), isdigit(), toupper(), tolower()
Month Nov-1			Module/Unit:	Sub-units planned
2	16	18	Unit IV: Control Structures	Decision making structures:- if, if-else, switch Loop control structures:- while, do while, for Nested structures Use of break and continue, Unconditional branching (goto statement).

Name and Signature of Teacher


Miss Pallavi M. Dessai

Name and Signature of HoD


Pallavi M. Dessai
HEADDepartment of B.Sc. Computer Science (Entire)
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)
Department of Computer Science Entire
Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Miss Pallavi M. Dessai

Programme: B.Sc. Computer Science Entire (BCS) - II Semester-II

Subject: Computer Science

Course Title: Programming in C++ - II

Month Jan-1			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit I: Arrays and strings	One dimensional arrays –Declaration, Initialization, Accessing element, Reading and displaying elements Two dimensional arrays –Declaration, Initialization, Accessing element ,Reading and displaying Initializing strings, Reading string string handling functions (strcpy(), strcmp(), strcat(), strlen(), strrev()).
2	16	18		
Month Feb-1			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit II: Functions	Concept of function, Advantages of Modular design. User defined functions:- declaration , definition, function call, parameter passing (by value), return statement. Recursive functions. Scope of variables and Storage classes.
2	16	18		
Month Mar-1			Module/Unit:	Sub-units planned
2	16	18	Unit III: Pointers	Introduction to Pointers. Declaration, definition, initialization, dereferencing. Pointer arithmetic. Relationship between Arrays & Pointers- Pointer to array, Array of pointers. Multiple indirection (pointer to pointer). Functions and pointers- Passing pointer to function, Returning pointer from function Dynamic memory management- Allocation(malloc(),calloc()), Resizing(realloc()). Releasing free()
Month Apr-1			Module/Unit:	Sub-units planned

2	16	18	Unit IV: Structures and unions	Concept of structure, definition and initialization, use of typedef. Accessing structure members. Nested Structures Arrays of Structures Concept of Union, declaration, definition, accessing union members. Difference between structures and union.
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Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Mr.Rajesh R Mane

Programme BSc Semester-I

Subject: Introduction to Computer –I Course Title: B.Sc. Computer Science Entire(BCS)

Month August			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Introduction to Computer and Basic Organization	Introduction,History. Characteristics & features of Computers. Components of Computers. Organization of Computer. Generation of Computers . Classification of Computers Computer Languages Types of Programming Languages Machine Languages Assembly Languages High Level Languages Assembler, Linker, Loader, Interpreter & Compiler. Introduction to Computer Virus, how does it spread? Symptoms of it, Types of Virus, Antivirus, Prevention from Virus.
8	15	23		
Month September			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Input, Output Devices and Concept of Memory	Input Devices : Touch screen , OMR, OCR, Light pen ,Scanners Output Devices : Digitizers, Plotters, LCD, Plasma Display, Printers Types of Memory (Primary And Secondary) RAM, ROM, PROM, EPROM Secondary Storage Devices (FD, CD, HD, Pendrive, DVD, Tape drive,USB)
8	15	23		

Month October			Module/Unit:	Sub-units planned
8	15	23	Operating System concepts	Why Operating System History of operating system Functions of Operating System Types of Operating System Batch O.S. Multiprogramming O.S. Time Sharing O.S Personal Computers O.S. Network O.S.
Month Novemeber			Module/Unit:	Sub-units planned
8	15	23	MS PowerPoint , MS Excel	MS-Power point - Introduction to PowerPoint, Creating a Presentation, PowerPoint views, Slide show, Formatting slides, Slide transition & adding special effects, Inserting pictures, sound, chart. MS Excel - modes, Move/Copy text, Insert/Delete Rows and Columns, Formatting a Worksheet, Print the workbook, Charts, Naming Ranges, and Conditional Formatting ,Filtering the data from database ,Drawing toolbar, Freeze Panes, Splitting the worksheet. Goal Seek ,Pivot table and Hyperlinks. Functions: Date and Time function, Statistical, Math and Financial Functions.


Mr. Rajesh R Mane

Teacher Incharge


Miss Pallavi M. Dessai

IQAC Co-ordinator

Principal

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(HOD)
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Department of Computer Science Entire

Academic Year: 2026-2027

Name of the teacher: Mr.Rajesh R Mane

Programme BSc Semester-II

Subject:Introduction to Computer –II Course Title: B.Sc. Computer Science Entire(BCS)

Month january			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Introduction to Database	Introduction to DBMS RDBMS basic concepts- RDBMS Terminologies, DBMS Vs RDBMS with examples Keys –Primary key & Foreign key
8	15	23		
Month Febuary			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Introduction to HTML	HTML Documents Basic structure of an HTML document Creating an HTML document Mark up Tags Heading-Paragraphs Line Breaks HTML Tags.
8	15	23		
Month March			Module/Unit:	Sub-units planned
8	15	23	Images, Tables Frames, Image Maps, Forms in HTML	Introduction to elements of HTML Working with Text Working with Lists, Tables and Frames Working with Hyperlinks, Images and Multimedia Working with Forms and controls.

Month	April		Module/Unit:	Sub-units planned
8	15	23	Introduction to Cascading Style Sheets	Concept of CSS Creating Style Sheet CSS Properties CSS Styling (Background, Text Format, Controlling Fonts) Working with block elements and objects Working with Lists and Tables CSS Id and CSS Color

Mr. Rajesh R Mane

Mr. Rajesh R Mane
Teacher Incharge

Miss Pallavi M. Dessai

Miss Pallavi M. Dessai
(HOD)

IQAC Co-ordinator

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Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Mrs. Vaishali C. Dalvi

Programme BSc Computer Science Entire (BCS)

Semester- V

Subject: computer science

Course Title: C#.Net programming

Month – Jun			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Introduction	- Event driven & sequence driven programming - Introduction to c#, .net framework architecture - Assembly Namespace, Garbage collector JIT compilers
16	16	32		
Month – July			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Data Types & Control Structure	- Variables, expressions, constants, Data Types, Operators, implicit & explicit conversions - Conditional statements - Loop statements - Unconditional statement
16	16	32		
Month – August			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Working with Classes	- Class & objects - Constructors - Inheritance - Polymorphism
16	16	32		
Month – September			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Developing GUI applications with Win Form	- Different controls in win form – Forms, textbox, labels, buttons, radio buttons, check box, combo box, list box, Date time picker - Important properties of controls, Important events of each control
16	16	32		
Month – October			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Developing GUI applications with Win Form	Menus, built in dialog box – input box, message box, Mouse events – click, double click, enter, hover, leave, move, Keyboard events – key press, key down, key-up
16	16	32		

Name and Signature of Teacher

Vaishali Dalvi



Name and Signature of HoD

Pallavi Dessai
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Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Mrs Vaishali C. Dalvi

Programme : B.Sc. Computer Science Entire(BCS) Semester-VI

Subject: computer science

Course Title: Advance C# programming

Month –November			Module/Unit:	Sub-units Completed
Lectures	Practical's	Total	Exception Handling	• Errors-types of errors • Structured Exception – Try__Catch__End Try, finally, throw, • Unstructured Exception – On error GoTo, resume ,resume next. • Tracing Errors – Break Point, watch window, quick watch window, autos
16	16	32		
Month –December			Module/Unit:	Sub-units Completed
Lectures	Practical's	Total	Database Connectivity in C#	• Database: Connections, command, Data adapters, and datasets • Connection to database using MS-Access, SQL Server
16	16	32		
Month – January			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Data Binding with Controls	• Data binding with controls like Text Boxes, List Boxes, Data grid etc. • Data form wizard, • Data validation
16	16	32		
Month – February			Module/Unit:	Sub-units Completed
Lectures	Practical's	Total	Using Crystal Report	• Connection to Database, Table, Queries, Create and Modify Report, • Formatting Fields and inserting Header, Footer, Group Details • Working with formula fields, Parameter fields • Working with Multiple Tables
16	16	32		

Name and Signature of Teacher

Vaishali Dalvi

Vaishali Dalvi



Name and Signature of HoD

Pallavi Dessai

Pallavi Dessai
HEAD

Note: In the above format, for each month for each teacher.

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Vivekanand College, Kolhapur (an Empowered Autonomous institute)

Department of Computer Science Entire

Academic Year: 2026_27

Annual Teaching Plan

Name of the Teacher: Miss Nita N . Bargale

Programme BSc computer science(BCS)

Semester- V

Subject: computer science

Course Title: core java

Month –June-26			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Introduction to java	•A Short History of Java, • Features of Java, • Java tools-JDK, JRE. • structure of java program –compilation and execution of program • JVM, Types of Comments, Data Types, Final Variable • Type Conversions -implicit and explicit conversion • Accepting input from console (Using scanner class and command line arguments).
16	16	32		
Month –July-26			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	control statements, Classes and objects	•Control statements, for-each loop, Varargs, Declaring 1D, 2D array • Defining Classes, objects and method - method overloading • Array of Objects, Constructor, Overloading Constructors and use of 'this' Keyword • static keyword, • methods (equals (), toString (), Wrapper Classes.
16	16	32		
Month August-26			Module/Unit:	Sub-units planned
16	16	32	Package, Inheritance	•Package- Introduction to all predefined packages, User Defined Packages, Access Specifiers •Inheritance -Types of Inheritance-
Month –September-26			Module/Unit:	Sub-units planned
16	16	32	Interface	• Method Overriding • Super Keyword, final keyword • abstract class and abstract methods • Defining and Implementing Interfaces
Month –October-26			Module/Unit:	Sub-units planned
16	16	32	Exception Handling	Exception Handling- Concept, types, try and catch block, multiple catch, Try-catch –finally block, throw and throws clause, finally clause.

Name and Signature of Teacher

Miss. Nita N.Bargale



Name and Signature of HOD

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Vivekanand College, Kolhapur (an Empowered Autonomous institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Miss Nita N Bargale.

Programme : B.Sc. Computer Science Entire (BCS)

Semester-VI

Subject: computer science

Course Title: Advance java

Month – Nov-27			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	User Interface Components with Swing	fundamentals of Swing-what is JFC, Hierarchy of Java Swing classes, The MVC Architecture, Components – JFrame, JButton, JLabel, JText, JTextArea, JCheckBox and JRadioButton, JList, JComboBox, JMenu, JtabbedPane, JScrollBar, Dialogs (Message, confirmation, input) Layout Managers (Flow Layout, Border Layout, Grid Layout, Card Layout) Events- Action Event Class, Window Event class, ItemEvent class, Event Listener Interface: ActionListener, Window Listener, ItemListener
16	16	32		
Month –Dec-27			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	JDBC	What is JDBC? Steps for connectivity between Java program and database. Type of drivers, Simple program-database operations like creating tables, CRUD (Create, Read, Update, Delete) operations using SQL
16	16	32		
Month –Jan-27			Module/Unit:	Sub-units planned
16	16	32	Servlet	Introduction of servlet: How servlet work, model diagram Uses of servlet, Life cycle of servlet, Servlet API: packages- javax. servlet and javax.servlet.http Session Tracking Mechanisms, HttpSession, Cookies, URL-Rewriting, Hidden-Form Fields
Month –Feb-27			Module/Unit:	Sub-units planned
16	16	32	JSP	Introduction, Jsp LifeCycle, Jsp Implicit Objects & Scopes, Jsp Directives, Jsp Scripting Elements, Simple application using JSP. Difference between JSP and Servlet


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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)
 Department of B Sc Computer Science Entire
 Academic Year: 2026-2027
Annual Teaching Plan

Name of the teacher: Miss. Nadiya Dara Patel
Programme: B.Sc. Computer Science Entire(B.C.S)

Semester-V

Subject: Computer Science

Course Title: Software Engineering with UML

Month- June 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	1. Introduction to software Practical: PHP practical's -1) Introduction to PHP:	1) What is a System, characteristics of System, understanding live-working system. 2)System Development Life Cycle (SDLC), phases of SDLC.3)Definition of software, characteristics or attributes of a good software PHP variables and constants ,Types of data in PHP, Expressions, PHP Operators, Decision making Statements: Conditional statements, unconditional statements and Looping statements. Executing PHP on command prompt.
16	16	32		
Month – July 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	2. Introduction to Software engineering and process models Practical: PHP practical's - Introduction to Functions in PHP	1) Definition of software engineering. 2) Software process models: Traditional models- Waterfall model, Prototyping model. 3) Introduction to Agile software development- concept, overview, advantages, examples, traditional Vs Agile. Functions: Introduction to Function, Need of Function, declaration and calling of a function PHP Function with arguments. Types of function: Built-in functions- Math functions, String functions. User defined function
16	16	32		
Month- August 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	3. Introduction to Software Requirements Analysis and Gathering Practical: PHP practical's - Sessions, Cookies and Handling HTML form with PHP	1) Requirement anticipation and investigation. 2) Fact finding methods- Interviews, Questionnaires, observation, record review. 3) Functional Requirements, Non - functional requirements. 4) Software requirements specification (SRS)- need of SRS, characteristic of SRS, structure of SRS. Introduction to session and cookies: features of sessions and cookies use of session and cookie, session variables. Handling HTML form with PHP: Capturing Form Data, GET and POST form methods, Dealing with multi value fields, Redirecting a form after submission
16	16	32		

Month- September 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total		
16	16	32	4. Introduction to UML Diagrams- I and testing overview Practical: PHP practical's - PHP with MySQL	1)Introduction to UML- concept of UML, advantages of UML, applications of UML. 2)Classification of UML diagrams : Use case diagrams-overview, identifying actors and use cases, communication and relationships, example. PHP with MySQL: Introduction, connecting to a MySQL database, MySQL queries: INSERT, UPDATE,
Month- October 2026			Module/Unit:	Sub-units planned
16	16	32		
			4. Introduction to UML Diagrams- I and testing overview Practical: PHP practical's - PHP with MySQL	3)Sequence Diagram-concept, activation, example. 4)Software Testing overview - concept, Testing fundamentals. 2) DELETE, SELECT. Prepared statements and preventing SQL injection, Retrieving and displaying data from a database.


 Name and Signature of Teacher
 Miss. Nadiya Dara Patel


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 Miss. Pallavi M. Dessai
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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)
 Department of B Sc Computer Science Entire
 Academic Year: 2026-2027
Annual Teaching Plan

Name of the teacher: Miss. Nadiya Dara Patel

Programme: B.Sc. Computer Science Entire (B.C.S)

Semester-VI

Subject: Computer Science **Course Title:** Introduction to Artificial Intelligence

Month- November 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	1. Introduction to Artificial Intelligence	1) Introduction, Definition of Artificial Intelligence, Goals of A.I., Ethical use of A.I Turing test. Branches of A.I. – 1) Machine Learning 2) Deep Learning. Applications of A.I., Advantages of A.I., Disadvantages of A.I.
16	16	32		2) Types of Artificial Intelligence: 1) Type1 – Narrow A.I., General A.I., Super A.I. 2) Type2 – Reactive Machines, Limited Memory, Theory of Mind, Self-Awareness. 2) Linux GPU, directory handling, file handling commands implementation
Month- December 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	2. Introduction to Intelligent System	1) Introduction to intelligence, Definition of Intelligence, Types of Intelligence: Linguistic intelligence, Musical intelligence, Logical-mathematical intelligence, Spatial intelligence, Bodily-Kinesthetic intelligence, Intra-personal, Inter-personal intelligence
16	16	32		2) Components of Intelligence: A) Reasoning: 1) Inductive reasoning, example 2) Deductive reasoning, example, B) Learning: 1) Rote Learning, 2) Generalized Learning- Supervised, Un-Supervised, Re-enforcement Learning 2) Linux Filtering, sorting commands implementation
Month- January 2027			Module/Unit:	Sub-units planned
16	16	32	3. Problem Solving in A.I.	1) A.I. Agents and environment: Concept, definition of agent, definition of environment, Structure of A.I. agent, case study, Rules for A.I. agent, Intelligent Agent- PEAS representation (Case study of Self Driving Car) examples. 2) Concept, Search algorithm terminologies: 1) Search- Search Space, Start State, Goal State. 2) Search Tree, 3) Actions, 4) Transition Model, 5) Path Cost 6) Solution 7) Optimal Solution, 8) Problem and Problem Space. 2) Linux Shell scripts implementation

Month- February 2027			Module/Unit:	Sub-units planned
16	16	32	4. Search Algorithm and Introduction to Natural Language Processing Practical: 4) Linux operating system practical's	1)Types of Search Algorithms: Informed, Uninformed- Breadth First Search, Depth First Search 2)Natural Language Processing: concept, overview of NLG & NLU 2) Linux shell scripts implementation
 Name and Signature of Teacher Miss. Nadiya Dara Patel  Name and Signature of HOD Miss. Pallavi M. Dessai HEAD				

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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Miss Samrin Zakirhusen Mullani

Programme: B.Sc. Computer Science Entire (BCS) -II

Semester-III

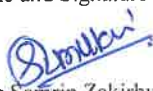
Subject: Computer Science

Course Title: Object Oriented Programming Using C++

Month Aug-22			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Introduction to C++ and Basics of Object Oriented programming Concepts	• Introduction to C++: Structure of C++ program, Input and output Streams, • Memory • management operators: new and delete, this pointer, Reference variables, Control Structures (looping and branching statements) • Functions: inline function, default argument, function overloading.OOP • Concepts: Data abstraction, Data Encapsulation, Inheritance, Polymorphism, Message Passing
16	16	32		
Month Sep-22			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Class, Object, Constructor, Destructor	• Class declaration, Access modifiers: public, private, protected, defining member functions (inside the class and outside the class), Array of object. • Constructor and Destructor: Definition and features of constructor, Types of constructor, • Definition, syntax and use of Destructor •
16	16	32		
Month Oct-22			Module/Unit:	Sub-units planned
16	16	32	Static members, Friend function and class, Operator Overloading.	• Static data members and member function, friend function and friend class. • Operator overloading :Concept, Rules for operator overloading, Unary and Binary Operator overloading
Month Nov-22			Module/Unit:	Sub-units planned

16	12	28	Inheritance and Polymorphism	• Inheritance: Concept, Definitions of base class and derived class, Types of inheritance (Single, Multiple, Multilevel, Hierarchical and Hybrid inheritance) • Polymorphism: Definition of polymorphism, Types of polymorphism, virtual function, pure virtual function, Abstract class..
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Name and Signature of Teacher


Miss Samrin Zakirhusen Mullani



Name and Signature of HoD


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Department of B.Sc. Computer Science (Entire)
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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Miss Samrin Zakirhusen Mullani

Programme: B.Sc. Computer Science Entire (BCS) - II

Semester-IV

Subject: Computer Science

Course Title: Introduction to Data Structure Using C++

Month Jan-23			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Introduction to Data structure and Linear Data Structures (Array, Stack, Queue)	• Introduction to Data Structure Definitions: Data types, Data Object, Data structure, Abstract Data Type (concept), Data Structure classification • Algorithm Efficiency: Complexity, Big O notation, • Array: Definition, Types of array (one dimensional and multidimensional), Sparse matrices.
16	16	32		
Month Feb-23			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Searching and Sorting	• Searching: Linear search and binary search • Sorting: Bubble Sort, Selection Sort, Insertion sort, Merge Sort.
16	16	32		
Month Mar-23			Module/Unit:	Sub-units planned
16	16	32	Stack and Queue	• Stack: Definition of Stack, Operations on Stack, Static Implementation of stack • Applications of stack: Recursion, inter conversions between infix, prefix and postfix expressions. • Queue: Definition of Queue, Operations on Queue, Static Implementation of • Queue. Types of Queue: Linear, Circular and Priority queue • Applications of Queue.
Month Apr-23			Module/Unit:	Sub-units planned

16	16	32	Linked List, Trees	• Linked List: Concept of Linked List, Operations on Linked List, Implementation of Linear Linked List, Types of Linked List, • Implementation of stack and queue using linked list • Trees: Definition of tree, Tree terminologies, Types of Tree, Tree Traversal(inorder, preorder, postorder).
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Name and Signature of Teacher


Miss Samrin Z. Mullani



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Pallavi Dessai

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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)
 Department of B Sc Computer Science Entire
 Academic Year: 2026-2027
Annual Teaching Plan

Name of the teacher: Miss.Priyanka Sanjay Maske
Programme: B.Sc. Computer Science Entire (B.C.S)

Semester-V

Subject: Computer Science

Course Title: PHP Programming

Month- June 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	1.Introduction to PHP Practical: PHP practical's -1) Introduction to PHP:	• PHP introduction • Scope of PHP • Basic Syntax • PHP variables and constants
16	16	32		
Month – July 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	1.Introduction to PHP Practical: PHP practical's -1) Introduction to PHP:	• Types of data in PHP, Expressions • PHP Operators - Decision making Statements: Conditional statements, unconditional statements and Looping statements. Executing PHP on command prompt
16	16	32		
Month – Aug 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	2.Introduction to Functions in PHP Practical: PHP practical's - Introduction to Functions in PHP	• Functions: Introduction to Function, Need of Function, declaration and calling of a function PHP Function with arguments. • Types of function: Built-in functions- Math functions, String functions, User defined function
16	16	32		
Month- Sept 2026			Module/Unit:	Sub-units planned
16	16	32	3.Sessions, Cookies and Handling HTML form with PHP Practical: PHP practical's - Sessions, Cookies and Handling HTML form with PHP	• Introduction to session and cookies: features of sessions and cookies use of session and cookie, session variables. • Handling HTML form with PHP: Capturing Form Data, GET and POST form methods, Dealing with multi value fields, Redirecting a form after submission

Month- Oct 2026			Module/Unit:	Sub-units planned
16	16	32	4.PHP connectivity with MySQL Practical: PHP practical's - PHP with MySQL	PHP with MySQL: Introduction, connecting to a MySQL database, MySQL queries: INSERT UPDATE, DELETE, and SELECT. Prepared statements and preventing SQL injection, Retrieving and displaying data from a database.

Name and Signature of Teacher



Miss. Priyanka Snajay Maske

Name and Signature of HOD



Miss. Pallavi M. Dessai

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"Education for knowledge , science and culture"

- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

B. Sc. Part – I(Computer science Entire) Syllabus 2026-2027

Semester: III Computer Science

Introduction to RDBMS using MySQL

Faculty Name: Miss. Bhargavi R Kugaji

Teaching Plan

Paper - Introduction to RDBMS using MySQL

Month- June			Module/Unit :	Sub-units planned
Lecture s	Practical' s	Total	Unit I - Introduction to RDBMS using MySQL	Data ,Database,Database Management system,Concepts of RDBMS,RDBMS Terminologies:relation,attributes,domain,tuple,entities,DB A & responsibilities . Relational Model:Structure of Relational Database, Relational Algebra.
16	16	32		

Month- July - August			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit II - Introduction Data model Unit III - Normalization	Data Flow diagram :concepts of DFD,Symbols ,Levels of DFD ,Examples Entity Relationship diagram :concepts of entity, Attribute, Symbols,Types of relations,Example. Introduction to normalization Forms of normalization.
16	16	32		

Month- September			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit IV - Introduction to MySQL	What is MYSQL,feature of MYSQL,basic Data types of MYSQL,classification of commands:DDL(create,alter,drop,truncate) DML(insert,update,delete,select), DCL(grant,revoke) TCL(commit,rollback,savepoint) Select statement with where,group by,order by.
16	16	32		



Name and Signature
ofTeacher
(Miss. Bhargavi R Kugaji)



Name and Signature of HOD
(Miss. Pallavi M. Dessai)

HEAD

Department of B.Sc. Computer Science (Entire)
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

Month- January			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit I -Data Constraints and MYSQL operator	Data Constraints:-primary key,foreign key,unique key ,not null ,check, default. SQL OPERATOR: Logical,Relational/Comparison, Special-IN,Between ,like
16	16	32		

Month- February- March			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit II - MySQL Function Unit III - MySQL Sub-queries and Joins	SQL functions: Arithmetic (abs,ceil,floor,mod,pow,sqrt,round, truncate) , Date and time functions , Aggregate Functions (count,min,max,avg,sum). Introduction to Sub Queries: Sub queries, Nested Sub query. Introduction to Joins: Simple/Inner Two tables Join, Left, Right, Outer join, Self join. Views, Indexes, Sequence.
16	16	32		

Month- April			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit IV – Cursor and Triggers	Introduction to Cursors, Trigger and its types. Examples of Triggers and cursors.
16	16	32		

Name and Signature of Teacher
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Department of B.Sc. Computer Science (Entire)
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of B Sc Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Miss. Poonam Mahadev Doiphode

Programme: B.Sc. Computer Science Entire(B.C.S)

Semester-V

Subject: Operating System

Course Title: Operatin System

Month- July 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	1. Operating System Overview	1) Introduction and definition of operating system 2) Objectives and function 3) Operating system services 4) Protection: input output, memory and CPU protection 5) System calls: types of system calls and system call implementation.
16	16	32		
Month – Aug 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	2. Process Management	1) Process concept, Process states, Process control block (PCB). 2) Context switching. 3) Process scheduling: scheduling objectives. 4) Types of schedulers 5) Scheduling criteria 6) Scheduling algorithms- Preemptive and non-preemptive. FCFS, SJF, priority, round robin, multiple queue, multilevel feedback queue.
16	16	32		
Month- Sept 2026			Module/Unit:	Sub-units planned
16	16	32	3. Memory Management	1) Logical and physical address map. 2) Memory allocation- contiguous memory allocation- fixed and variable partition, internal and external fragmentation and compaction. 3) Paging and virtual memory, demand paging, locality of reference, page fault, dirty page/ dirty bit, page replacement policies FIFO, optimal, LRU, MFU 4) Disk structure, Disk scheduling-FCFS, SSTF, SCAN, LOOK, CSCAN, CLOOK
Month- Oct 2026			Module/Unit:	Sub-units planned
16	16	32	4. File management and Deadlocks	1) File concept, access methods- sequential and direct, file types and operations. 2) Allocation method- contiguous, linked and indexed. 3) Definition of deadlock, characteristics. 4) Deadlock prevention, detection and recovery.
 Name and Signature of Teacher Miss. Poonam Mahadev Doiphode				 Name and Signature of HOD Miss. Pallavi M. Dessai HEAD

Note: In the above format, for each month for each teacher.

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 (An Empowered Autonomous Institute)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of B Sc Computer Science Entire

Academic Year: 2025-2026

Annual Teaching Plan

Name of the teacher: Miss.Poonam Mahadev Doiphode

Programme: B.Sc. Computer Science Entire(B.C.S)

Semester-VI

Subject: Linux Operating System

Course Title: Linux Operating System

Month- Nov 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	1: Linux Basics	What is an OS? What is Linux • The shell, kernel, Linux file system, login, logout • Different general purpose utility commands (GPU)- cal, date, bc, who • Concept of directory, home directory, directory handling commands- PWD, cd, mkdir, rmdir, ls, relative and absolute path • Basic file attributes metacharacters. • Access permission chmod command • File handling commands-cat, cp, mv, rm
16	16	32		
Month – Dec 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	2: Basic filters	What is a filter, head, tail, sort, grep • regular expressions and its types • environment variables-PATH, USER, HOME, UID, TERM, SHELL • concept of process, PID, PS, KILL, FREE
16	16	32		
Month- Jan 2027			Module/Unit:	Sub-units planned
16	16	32	3: VI editor	• What is the VI editor-command mode, insert mode, last line mode • VI editing commands, moving within a file, saving and closing the file Command mode movement, command mode- making changes, repeating VI actions
Month- Feb 2027			Module/Unit:	Sub-units planned
16	16	32	4: Essential shell programming	Linux shells, shell scripting, running a shell script • Statements- read, echo, exit, expr • Conditional statements- test, if, case • Looping statements- while, until, for

Name and Signature of Teacher
Miss. Poonam Mahadev Doifode



Name and Signature of HOD
Miss. Pallavi M. Dessai

Note: In the above format, for each month for each teacher.

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Vivekanand College, Kolhapur
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Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Mr. Pawar A.A.

Programme: B.Sc. Computer Science Entire

Semester-V

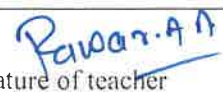
Subject: VSC

Course Title: Introduction to Python

Month: June-July			Module/Unit	Sub-units planned
Lectures	Practicals	Total	Unit-1 Introduction Introduction to Python and Basic Concepts in python	Introduction to python, Applications of Python, Installation of python, first program in Python, Comments and Do strings in Python Variable and data types, Operators in python, Conditional Statements: Indentation in python, if, if-else, nested if-else statements
		4*3		
Month-August				
Lectures	Practicals	Total	Unit-2 Looping Statements, Control statements, String Manipulations	Looping Statements: for loop, while loop, Nested loops, Control statements: break, continue and pass, String Manipulations: Accessing strings, Basic operations, String slices, Functions and methods
		4*3		
Month-September				
Lectures	Practicals	Total	Unit-3 Python collection	Python collections: list, Tuple, set and dictionary, List: Introduction, accessing lists, change item value in list, loop through list, methods, Tuple: Introduction, accessing tuples, change item value in tuple, loop through tuple and methods of tuple, set: introduction and methods of set, Dictionary: Introduction, Accessing values in dictionaries, properties, Change value in dictionary, loop through dictionary and methods of dictionary.
		4*3		
Month: October-November				
Lectures	Practicals	Total	Unit-4 Functions	Defining a function, calling a function, Function arguments, Default parameter value, Anonymous function: Lambda function (why use lambda, syntax and examples of lambda).
		4*3		


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Vivekanand College, Kolhapur
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Name and Signature of teacher

Mr. Pawar. A.A.

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Mr. Pawar A.A.

Programme: B.Sc. Computer Science Entire (BCS)

Semester-VI

Subject: VSC

Course Title: Statistical methods using Python

Month: Dec-Jan 2027			Module/Unit	Sub-units planned
Lectures	Practicals	Total	Unit-1 Descriptive Statistics	Descriptive statistics and Visualization Data Frequency, Mean, median, Range, Quartile max, min, correlation, percentile Exploring the data, Summarizing the Data, Handling missing value.
		4*3		
Month-Feb 2027				
Lectures	Practicals	Total	Unit-2 Visualizing techniques	visualizing the data and interpret summaries for univariate and multi variate data Scatter plot, Stem and Leaf plot, Line plot, Bar and pie plot, Histogram, Box plot.
		4*3		
Month-March 2027				
Lectures	Practicals	Total	Unit-3 Statistical Inference	Inferential Statistical Analysis in python ANOVA, Correlation and regression, Construction of confidence interval, Parametric Test, Non parametric test Practical.
		4*3		
Month: April 2027				
Lectures	Practicals	Total	Unit-4 Project	Case Study and Group Project Fitting Statistical model to data with Python and evaluation of the model. Linear Regression, Logistic Regression (secondary data).
		4*3		


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Department of B.Sc. Computer Science (Entire)
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)


Name and Signature of teacher

Mr. Pawar.A.A.

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Mr. Pawar A.A.

Programme: B.Sc. Computer Science Entire

Semester-I

Subject: VSC

Course Title: Introduction to R Software for Statistics

Month: June-July			Module/Unit	Sub-units planned
Lectures --	Practicals 08	Total 32	Unit-1 Introduction to R Software	Introduction to R Software: Environment, Downloading and Installation of R Software, Starting and Editing R, Working of R, Getting help in R, R commands and code in R, executing commands from A File, Delivering Output to a File, Accessing Data from External File (Importing Data), Data Type (Modes). Data Structure R Vector: Vector Arithmetic, Numerical Functions, Assessing Vectors, Alternative Way to create Data Vectors. Data Frames: Alternative ways for creating Data Frame, Accessing Data from a Data frame, Subset and Transform Commands, Resident Data Sets Exercise
Month-August				
Lectures --	Practicals 08	Total 32	Unit-2 Matrix and list, Built functions	Matrix and list, Built functions: Matrix: alternative ways of creating Matrix, accessing elements of Matrix, Matrix operations, List: Accessing elements of list, built in function in R, Family of functions Apply() Graphics using R, R:A programming language , Exercise
			Unit-3 Sampling Methods	Sampling Methods: Population and sample, Simple Random Sampling, Stratified Random Sampling, Systematic Sampling, Simulation. Exercise
Month-September/October				
Lectures --	Practicals 08	Total 48	Unit-4 Diagrams and Graphs	Diagrams and Graphs: Classification: Diagrammatic Representation of data: Simple Bar Diagram, Multiple Bar Diagram, Sub-Divided Bar Diagram, Pie Diagram of Pie Chart, Graphical Representation of Data: Box plot, Rod or Spike plot, Histogram, Ogive Curve, Exercise


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Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

Name and Signature of teacher

Mr. Pawar. A.A.

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Mr. Pawar. A.A

Programme: B.Sc. Computer Science Entire

Semester-II

Subject: VSC

Course Title: Statistical methods using R Software

Month: Dec-Jan 2027			Module/Unit	Sub-units planned
Lectures --	Practicals 08	Total 32	Unit-1 Descriptive Statistics:	Descriptive Statistics: Central Tendency, Discrete observations, ungrouped frequency distribution, grouped frequency distribution. Measures of dispersion, moments skewness, Kurtosis
Month-Feb 2027				
Lectures --	Practicals 08	Total 48	Unit-2 Probability and Probability Distributions:	Probability and Probability Distributions: Probability, Binomial Distribution, Hypergeometric Distribution, Poisson Distribution, Normal Distribution, Uniform Distribution, Exponential Distribution
			Unit-3 Testing of Hypothesis:	Testing of Hypothesis: Large sample Tests, Small Sample Tests, t-test, f-test and tests for proportions, Chi-square Test for independence of attributes, Chi-square Test for Goodness of Fit Statistical
Month-March/April 2027				
Lectures --	Practicals 08	Total 40	Unit-4 Inference:	Inference: Inferential Statistical Analysis in R Software ANOVA, Correlation and regression, Construction of confidence interval, Parametric Test, Non parametric test.

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Department of B.Sc. Computer Science (Entire)
Vivekanand College, Kolhapur
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Name and Signature of teacher

Mr.Pawar.A.A.

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Ms. M. B. Lohar

Programme: B.Sc. Computer Science Entire

Semester-III

Subject: VSC

Course Title: Introduction to R Theory (VSC06STA39)

Month: June-July			Module/Unit	Sub-units planned
Lectures --	Practicals 16	Total 16	Unit-1 Introduction	1.1 Installation and introduction to R, History and features of R, Why R?, data input / output variables in R: Numeric, character, logical and complex 1.2 Class (), Object identification: is.na, is.numeric, is.character, is.matrix, is.vector, is.null, is.factor, as. functions, Creation of vector using commands: combine, scan, seq, rep, edit, sort, length, which, order
Month-August				
Lectures --	Practicals 16	Total 16	Unit-1 Introduction	1.3 Operations on data: Assignment operators in R, leftwards assignments (<- <<-, =) rightwards assignments (->, ->>, =), Listing and deleting the objects: matrix, data.frame, cbind, rbind, converting objects, 1.4 Arithmetic and simple functions: sum, prod, sort.
			Unit-2 Control Structure in R, Data visualization & interpretation	2.1 Matrix computation: addition, multiplication, determinants, inverse, rank, Import and export data: read.table, read.csv, file.choose, write.table, write.csv. 2.2 Data Visualization: -Diagrammatic representation: simple bar diagram, sub-divided bar diagram, multiple bar diagram. -Graphical representation: Scatter plot, histogram, frequency polygon, ogive curve.
Month-September/October				
Lectures --	Practicals 16	Total 16	Unit-2 Control Structure in R, Data visualization & interpretation	2.3 Control structure: for loop, while loop, if else statement, break statement, switch case. 2.4 Installation of packages, Exploratory data analysis: mean, quantiles, aggregate function, functions from apply family.

Department of B.Sc. Computer Science (Entire)
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Name and Signature of teacher

Ms. M. B. Lohar.

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027**Annual Teaching Plan****Name of the teacher:** Ms. M. B. Lohar**Programme:** B.Sc. Computer Science Entire**Semester-IV****Subject:** VSC**Course Title:** Statistical methods using R Theory (VSC06STA49)

Month: Dec-Jan 2027			Module/Unit	Sub-units planned
Lectures --	Practicals 16	Total 16	Unit-1 Sampling Methods, Measures of Dispersion & Moments, Skewness and Kurtosis	1.1 Simple random sampling (SRSWR, SRSWOR, Stratified sampling and Systematic sampling) 1.2 Mean, Median and Mode
Month-Feb 2027				
Lectures --	Practicals 16	Total 16	Unit-1 Sampling Methods, Measures of Dispersion & Moments, Skewness and Kurtosis	1.3 Range, quartile deviation, mean deviation, (Relative measures) Standard deviation, Variance, C.V. 1.4 Karl Pearson's coeff. of skewness, Bowley's coeff. of skewness, Pearsonian coeff. of skewness, Kurtosis
			Unit-2 Correlation, Regression, Probability distribution and Design of Experiment	2.1 Scatter diagram, Karl Pearson's coefficient of correlation, Spearman's Rank Correlation coefficient 2.2 lines of regression
Month-March/April 2027				
Lectures --	Practicals 16	Total 16	Unit-2 Correlation, Regression, Probability distribution and Design of Experiment	2.3 Probability and Probability Distributions (Uniform distribution, Binomial distribution, Geometric distribution, poison distribution), Plots to check normality: Box plot, Q- Q plot. shapiro.test(x) 2.4 Design of experiment (One-way ANOVA, Two-way ANOVA).


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Department of B.Sc. Computer Science (Entire)
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Name and Signature of teacher

Ms. M. B. Lohar.

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Ms. M. B. Lohar

Programme: B.Sc. Computer Science Entire

Semester-V

Subject: VSC

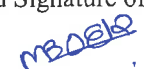
Course Title: Introduction to Python

Month: June-July			Module/Unit	Sub-units planned
Lectures	Practicals	Total	Unit-1 Introduction Introduction to Python and Basic Concepts in python	Introduction to python, Applications of Python, Installation of python, first program in Python, Comments and Doc strings in Python Variable and data types, Operators in python, Conditional Statements: Indentation in python, if, if- else, nested if-else statements
		4*3		
Month-August				
Lectures	Practicals	Total	Unit-2 Looping Statements, Control statements, String Manipulations	Looping Statements: for loop, while loop, Nested loops, Control statements: break, continue and pass, String Manipulations: Accessing strings, Basic operations, String slices, Functions and methods
		4*3		
Month-September				
Lectures	Practicals	Total	Unit-3 Python collection	Python collections: list, Tuple, set and dictionary, List: Introduction, accessing lists, change item value in list, loop through list, methods, Tuple: Introduction, accessing tuples, change item value in tuple, loop through tuple and methods of tuple, set: introduction and methods of set, Dictionary: Introduction, Accessing values in dictionaries, properties, Change value in dictionary, loop through dictionary and methods of dictionary.
		4*3		
Month: October-November				
Lectures	Practicals	Total	Unit-4 Functions	Defining a function, calling a function, Function arguments, Default parameter value, Anonymous function: Lambda function (why use lambda, syntax and examples of lambda).
		4*3		


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Department of B.Sc. Computer Science (Entire)
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Name and Signature of teacher


Ms. M. B. Lohar

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Ms. M. B. Lohar

Programme: B.Sc. Computer Science Entire (BCS)

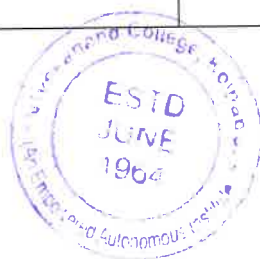
Semester-VI

Subject: VSC

Course Title: Statistical methods using Python

Month: Dec-Jan 2027			Module/Unit	Sub-units planned
Lectures	Practicals	Total	Unit-1 Descriptive Statistics	Descriptive statistics and Visualization Data Frequency, Mean, median, Range, Quartile max, min, correlation, percentile Exploring the data, Summarizing the Data, Handling missing value.
		4*3		
Month-Feb 2027				
Lectures	Practicals	Total	Unit-2 Visualizing techniques	visualizing the data and interpret summaries for univariate and multi variate data Scatter plot, Stem and Leaf plot, Line plot, Bar and pie plot, Histogram, Box plot.
		4*3		
Month-March 2027				
Lectures	Practicals	Total	Unit-3 Statistical Inference	Inferential Statistical Analysis in python ANOVA, Correlation and regression, Construction of confidence interval, Parametric Test, Non parametric test Practical.
		4*3		
Month: April 2027				
Lectures	Practicals	Total	Unit-4 Project	Case Study and Group Project Fitting Statistical model to data with Python and evaluation of the model. Linear Regression, Logistic Regression (secondary data).
		4*3		


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Department of B.Sc. Computer Science (Entire)
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)



Name and Signature of teacher


Ms. M. B. Lohar

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Ms. S.S.Kurade

Programme: B.Sc. Computer Science Entire

Semester-III

Subject: VSC

Course Title: Introduction to R Theory (VSC06STA39)

Month: June-July			Module/Unit	Sub-units planned
Lectures --	Practicals 16	Total 16	Unit-1 Introduction	1.1 Installation and introduction to R, History and features of R, Why R?, data input / output variables in R: Numeric, character, logical and complex 1.2 Class (), Object identification: is.na, is.numeric, is.character, is.matrix, is.vector, is.null, is.factor, as. functions, Creation of vector using commands: combine, scan, seq, rep, edit, sort, length, which, order
Month-August				
Lectures --	Practicals 16	Total 16	Unit-1 Introduction	1.3 Operations on data: Assignment operators in R, leftwards assignments (<- <<-, =) rightwards assignments (->, ->>, =), Listing and deleting the objects: matrix, data.frame, cbind, rbind, converting objects, 1.4 Arithmetic and simple functions: sum, prod, sort.
			Unit-2 Control Structure in R, Data visualization & interpretation	2.1 Matrix computation: addition, multiplication, determinant, inverse, rank, Import and export data: read.table, read.csv, file.choose, write.table, write.csv. 2.2 Data Visualization: -Diagrammatic representation: simple bar diagram, sub-divided bar diagram, multiple bar diagram. -Graphical representation: Scatter plot, histogram, frequency polygon, ogive curve.
Month-September/October				
Lectures --	Practicals 16	Total 16	Unit-2 Control Structure in R, Data visualization & interpretation	2.3 Control structure: for loop, while loop, if else statement, break statement, switch case. 2.4 Installation of packages, Exploratory data analysis: mean, quantiles, aggregate function, functions from apply family.


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Department of B.Sc. Computer Science (Entire)
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)





Name and Signature of teacher

Ms. S. S. Kurade.

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Ms. S. S. Kurade

Programme: B.Sc. Computer Science Entire

Semester-IV

Subject: VSC

Course Title: Statistical methods using R Theory (VSC06STA49)

Month: Dec-Jan 2027			Module/Unit	Sub-units planned
Lectures --	Practicals 16	Total 16	Unit-1 Sampling Methods, Measures of Dispersion & Moments, Skewness and Kurtosis	1.1 Simple random sampling (SRSWR, SRSWOR, Stratified sampling and Systematic sampling) 1.2 Mean, Median and Mode
Month-Feb 2027				
Lectures --	Practicals 16	Total 16	Unit-1 Sampling Methods, Measures of Dispersion & Moments, Skewness and Kurtosis	1.3 Range, quartile deviation, mean deviation, (Relative measures) Standard deviation, Variance, C.V. 1.4 Karl Pearson's coeff. of skewness, Bowley's coeff. of skewness, Pearsonian coeff. of skewness, Kurtosis
			Unit-2 Correlation, Regression, Probability distribution and Design of Experiment	2.1 Scatter diagram, Karl Pearson's coefficient of correlation, Spearman's Rank Correlation coefficient 2.2 lines of regression
Month-March/April 2027				
Lectures --	Practicals 16	Total 16	Unit-2 Correlation, Regression, Probability distribution and Design of Experiment	2.3 Probability and Probability Distributions (Uniform distribution, Binomial distribution, Geometric distribution, poison distribution), Plots to check normality: Box plot, Q- Q plot. shapiro.test(x) 2.4 Design of experiment (One-way ANOVA, Two-way ANOVA).


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Department of B.Sc. Computer Science (Entire)
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)




Name and Signature of teacher
Ms. S. S. Kurade.

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire
Academic Year: 2026-27

Annual Teaching Plan

Name of the teacher:

A. K. Londhe

Programme:

B.Sc. Computer science Entire Part- I Semester- I

Subject: Electronics Course Title: **Analog Electronics (2MIN06ELE11)**

Month : July 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	1) Basic Circuit Elements Practical's: Group- A 1. To familiarize with basic electronic components (R, C, L, diodes, transistors), Digital Multimeter.	Study of basic circuit elements and passive components: Resistor, Capacitor, Inductor, Transformer, Relays, Switches (working principle, circuit symbols, types, specifications and applications).
8	80	88		
Month: August 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	2) Semiconductor Diodes Practical's: 1. Study of P-N junction diode characteristics.	Formation of PN junction, Formation of Depletion Layer, Barrier potential, Forward and Reverse bias, Diode Equation and I-V characteristics, Zener diode, Zener and Avalanche breakdown, Zener diode specifications. Photo diode. Light Emitting Diode (LED): construction and working, 7-segment display and its applications.
8	80	88		
Month: September 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	3) Power Supplies Practical's: 1. Study of Half wave rectifier. 2. Study of full wave rectifier with and without filter (calculation of ripple). 3. Study of Bridge rectifier. 4. Study of Zener Regulator.	Rectifier: Half-wave, Full-wave rectifier using centre-tapped transformer, Bridge rectifier, Filters: Introduction, Types of filter-Capacitor filter, R-C filter Zener regulator, Three terminal IC Regulators, Switched mode power supply (SMPS), Concept of inverter.
8	80	88		
Month : October 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	4) Amplifier	Structure and working of bipolar junction transistor: CB, CE

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Computer Science Entire

Academic Year: 2026-27

Annual Teaching Plan

Name of the teacher:

A. K. Londhe

Programme:

B.Sc. Computer science Entire Part- I Semester- II

Subject: Electronics Course Title: **Instrumentation (2MIN06ELE21)**

Month : December 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	1) Transducers Practical's: Group- B	Definition of transducer, Classification of transducers: Active and passive transducers. Specifications of transducers: (Accuracy, range, linearity, sensitivity, resolution, reproducibility). Temperature transducers: Resistance temperature detector (RTD), Thermistor, Thermocouple pressure transducers: Piezoelectric transducer, capacitive transducer, displacement transducers(LVDT), Optical transducers: (LDR)
8	80	88	1. Study of LVDT. 2. Study of porch light control using LDR 3. Study of Instrumentation amplifier. 4. Study of ON OFF controller using LM 35 temp sensor.	
Month: January 2027			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	2) Signal Conditioning Practical's:	Introduction to signal conditioning Block diagram of op-amp, ideal characteristics of op-amp. Applications of op-amp: Inverting amplifier Non inverting, Voltage follower, Adder, Subtractor, Comparator, three op-amp instrumentation amplifier, introduction to op-amp attenuator, I-V converter, Sample and hold circuit.
8	80	88	1. Study of op-amp as inverting and non-inverting amplifier. 2. Study of op-amp as adder and subtractor.	

Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

Department of B.Sc. Computer science Entire

Academic Year: 2026-27

Annual Teaching Plan

Name of the teacher: **Mrs. Sujata S. Bobhate**

Programme: **B.Sc. Computer science Entire Part-I Semester II**

Subject: Electronics Course Title: **Digital Electronics-II (2MIN06ELE22)**

Month: December 2026			Module/Unit:	Sub-units planned
Lectures	Practical's	Total	Unit 1: Memory Devices and Memory Organization Practical: 1. Study of Diode Matrix ROM	Types of Memory –RAM (SRAM & DRAM), ROM, EPROM, and EEPROM, Concept of Diode Matrix ROM, Memory organization- building the required memory size by using available memory chips, memory address map.
8	0	8		
Month : January 2027			Module/Unit:	Sub-units planned
8	0	8		
			Unit 2: Introduction to Microprocessor Practical: 1. Arithmetic Operation using up 8085-I	Introduction to Microprocessor (8, 16, 32 Bits). Pin Diagram & Architecture of 8085. Pin diagram & Architecture of 8086.
Month: February 2027			Module/Unit	Sub-units planned
8	0	8	Unit 3: 1. Instruction set of 8085 Microprocessor 2. Instruction set of 8085 Microprocessor	Introduction, Classification of instruction, instruction format, Addressing Modes, Data transfer instruction, Arithmetic ins

Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

Department of B.Sc. Computer science Entire

Academic Year: 2026-27

Annual Teaching Plan

1. Name of the teacher: **Mrs. Sujata S. Bobhate.**

Programme: **B.Sc. Computer Science Entire Semester I**

Subject: Electronics Course Title: **Digital Electronics-I (2MIN06ELE12)**

Month : July 2026			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Lecture: Unit 1: Number System, Binary Codes and Binary Arithmetic Practical's: Group A 1. Study of Basic gate	Decimal, Binary, Octal and Hexadecimal number systems and their inter conversions. BCD code. Concept of Parity ASCII code, Binary Arithmetic: Addition, Subtraction by 1's complement and 2's complement method, signed and unsigned numbers
8	0	8		
Month: August 2026			Module/Unit:	Sub-units planned
8	0	8	Unit 2: Logic G Practical's: Group A 1. Study of Basic gate 2. Universal building block using NAND and NOR gate and Boolean algebra. 3. Verification of De-Morgan's Theorems	Study of logic Gates: OR, AND, NOT, NOR, NAND, XOR, Universal Gates, Boolean algebra Rule and Law's, De-Morgan's Theorems.
Month: September 2026			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Lectures : Unit 3 2: Combinational Circuits Practical's: 3. 1. Study of Half & full adder. 2. Study of Half & full subtractor. 3. Study of BCD to Seven segment Decoder	Concept of Combinational Circuits, Half adder, Full adder, Full Subtractor, 4-bit adder/subtractor, Multiplexer, DE-multiplexer, Encoder (Decimal to BCD), Decoder: BCD to 7 segment decoder..
8	0	8		

Vivekanand College, Kolhapur (Empowered Autonomous)

B. Sc. Computer science Entire

Department of Electronics

Academic Year: 2026-27

Annual Teaching Plan

Name of the teacher:

Mrs. Sujata. S. Bobhate

Programme:

B. Sc. Computer science Entire Part-II, Semester-III

Subject: Electronics Course Title:

Internet of Things (IoT) (MIN06ELE32)

MIN ELECTRONICS LAB-III

MIN- PR-III : MIN06ELE39

Month : July 2026			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Lecture: Unit 1: IoT Introduction & Concepts Practical's: 1. Arithmetic and logical operations using 8051 microcontroller (Use 8051 Simulator) 2. Time delay generation using timers of 8051 microcontroller 3. Study the interfacing of Relay and LED using microcontroller 4. Study the interfacing Stepper motor with 8051	IoT Architecture, Physical & Logical IoT design, Basics IoT Enabling Technologies. IoT Stack, IoT Applications.
16	64	80		
Month: August 2026			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit 2: Sensors & Actuators Practicals: 1. Study waveform generator (square, triangular and saw tooth using DAC) with microcontroller. 2. Study of interfacing of 16 x 2 LCD with 8051 microcontroller 3. Study the interfacing of ADC IC0804 with 8051 microcontroller 4. Study the interfacing of DC motor with 8051 microcontroller 5. Study the fundamental of IOT architecture, Arduino board and necessary software and create the thing speak account	Sensor working, Sensor Characteristics, Types of sensors and working principle, Sensors used in IoT (Temperature, humidity, Proximity, Accelerometer, Infrared), Actuator
16	64	80		

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Electronics

Academic Year: 2026-27

Annual Teaching Plan

Name of the teacher:

Mrs. Sujata. S. Bobhate

Programme:

B. Sc. Computer science Entire Part-II, Semester-IV

Subject: Electronics: Course Title:

Raspberry Pi (MIN06ELE41)

MIN ELECTRONICS LAB-IV

MIN- PR-IV : MIN06ELE49

Month: January 2027			Module/Unit:	Sub-units planned
Lectures	Practicals	Total	Lecture: Unit-1: Introduction to Single board computer	Basics of Single board computer, Introduction to ARM Cortex Processor, Raspberry Pi Series and Model, Comparison of various models of Raspberry Pi, Detailed specifications of Raspberry Pi 3B+: CPU, Storage devices, GPIO, Ethernet, Wi-Fi, Bluetooth, Power supply, Ports: USB, Display, Camera etc.
16	64	80	Practical: 1. Interfacing light emitting diodes (LEDs) with Raspberry Pi 2. Interfacing Switch with Raspberry Pi to read its ON OFF status 3. Interfacing relay with Raspberry Pi 4. Interfacing Temperature sensor with Raspberry Pi 5. Interfacing Humidity sensor with Raspberry Pi	
Month : February 2027			Module/Unit:	Sub-units planned
Lectures	Practical	Total	Unit-2: Operating System (OS) of Raspberry Pi Practical:	Benefits of Operating system, different types of OS, Overview of Raspbian OS, OS Installation, Configuration of Raspberry Pi, Installation of libraries
16	64	80	1. Interfacing Photocell/LDR with Raspberry Pi 2. Programming Raspberry Pi for Motion detection 3. Interfacing camera with Raspberry Pi to capture the image 4. Study of different types of Network cables and practically implement the cross-wired cable and straight through cable using clamping tool. 5. Establish Peer to Peer network connection using two systems using Switch and Router in a LAN	

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)**B. Sc. Computer Science Entire**

Department of Electronics

Academic Year: 2026-027

Annual Teaching Plan

Name of the teacher:

Mr. R. A. Deshmukh

Program:

B.Sc. Computer Science Entire Part-II, Semester-III

Subject: Electronics Course Title:

8051 Microcontroller (MIN06ELE31)

MIN ELECTRONICS LAB-III

MIN- PR-III: MIN06ELE39

Month: July 2026			Module / Unit	Sub-Units Planned
Lectures	Practical's	Total	Unit-1: Introduction to Microcontroller 8051	Comparison of Microcontroller & Microprocessor, Architecture of 8051, Internal RAM structure, SFRS, Pin diagram of 8051, I/O ports structure. Reset and Clock. Registers. Introduction to different types of 8-bit microcontrollers like Pic, AVR, Comparison between 8051, AVR, PIC, Applications of Microcontroller
16	64	80	Practical's: 1. Arithmetic and logical operations using 8051 Microcontroller (Use 8051 Simulator) 2. Time delay generation using timers of 8051 Microcontroller 3. Study the interfacing of Relay and LED using Microcontroller 4. Study the interfacing of DC motor with 8051 Microcontroller	
Month: Aug 2026			Module / Unit	Sub-Units Planned
Lectures	Practical's	Total	Unit-2: 8051 Instruction Set	Study of 8051 Instruction Set and Addressing Modes, Data Transfer, Arithmetic, Logical, Branching & Bit Manipulation Instructions. Assembly Language programming: Arithmetic and Logical
16	64	80	Practical's: 1. Study waveform generator (square, triangular and saw tooth using DAC) with microcontroller. 2. Study of interfacing of 16 x 2 LCD with 8051 microcontroller. 3. Study the interfacing of ADC IC0804 with 8051 microcontroller 4. Study the interfacing of DC motor with 8051 microcontroller 5. Study the fundamental of IOT architecture, Arduino board and necessary software and create the thing speak account	

Vivekanand College, Kolhapur (Empowered Autonomous)**B. Sc. Computer Science Entire**

Department of Electronics

Academic Year: 2026-027

Annual Teaching Plan

Name of the teacher:

Mr. R. A. Deshmukh

Program:

B.Sc. Computer Science Entire Part-II, Semester-IV

Subject: Electronics Course Title:

Computer Network (MIN06ELE42)

MIN ELECTRONICS LAB-IV

MIN- PR-IV: MIN06ELE49

Month: Jan 2027			Module / Unit	Sub-Units Planned
Lectures	Practical's	Total	Unit-1: Introduction	
16	64	80	Practical's: 1. Study of different types of Network cables and practically implement the cross- wired cable and straight through cable using clamping tool. 2. Establish Peer to Peer network connection using two systems using Switch and Router in a LAN. 3. Study of Network Devices in Detail (Switch, Hub, Router etc.) 4. Study of Network IP.	The use of computer network, Network Hardware, Network software, The OSI reference model, The TCP/IP reference model, Comparison of OSI & TCP/IP reference model.
Month: Feb 2027			Module / Unit	Sub-Units Planned
Lectures	Practical's	Total	Unit-2: Physical layer & Transmission	
16	64	80	Practical's: 1. Connect the computers in Local Area Network. 2. Connect the computers in wide Area Network 3. Configure Host IP, Subnet Mask and Default Gateway in a System in LAN (TCP/IP Configuration). 4. Configure Internet connection and use IPCONFIG, PING / Tracer and Net stat utilities to debug the network issues.	Introduction, Guided Transmission media: co-axial cable, Fiber optics, wireless transmission media, Public Switched telephone networks: Structure of Telephone systems, Local loop Modems, ADSL and fiber. Circuit switching, Packet Switching Hybrid Switching. Mobile Telephone systems: From 1G, 2G and 3G

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of B Sc Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Miss. Komal V. Powar

Programme: B.Sc. Computer Science Entire(B.C.S)

Subject: English

Course Title: Business communication

Semester-I

Month- July 2026			Module/Unit: I	Sub-units planned
Lectures		Total	A) Introduction to Communication	Basic types of communication- Reading, Writing, Listening, Speaking; Purpose of Communication; Process of Communication; Importance of Communication in Business; Barriers to Communication; Measures to Overcome the Barriers to Communication.
2*4	-	8		
Month – Aug 2026			Module/Unit: I	Sub-units planned
Lectures		Total	B) Verbal and Non-verbal communication	Verbal: Oral and written, its merits and demerits. Non-verbal: Kinesics, Oculistics, Haptics, Proxemics, Chronemics, Physical Appearance, Para Language, its merits and demerits.
2*4	-	8		
Month- Sept 2026			Module/Unit: II	Sub-units planned
2*4	-	8	English for Banking and Industries C) Writing Memos, Circulars:	Memo-Characteristics of a memo, Language and writing style of a memo- Format of a Memo; Circulars-Guidelines for writing a circular-Languages and writing style of a circular - format of a circular;
Month- Oct 2026			Module/Unit: II	Sub-units planned
2*4	-	8	D) Writing Notice, Agenda and Minutes:	Purpose -Format-Important points to remember while writing a notice, Agenda and Minutes.
Name and Sign of Teacher Miss. Komal Vilas Powar			Name and Signature of HOD Miss. Pallavi M. Dessai	

Note: In the above format, for each month for each teacher.

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of B Sc Computer Science Entire

Academic Year: 2026-2027

Annual Teaching Plan

Name of the teacher: Miss.Komal Vilas Powar

Subject: English.

Course Title: Business communication

SEM. II

Month- Dec 2026			Module/Unit: III	Sub-units planned
Lectures		Total	A) Communication Network	Scope and Types of Communication Network: Formal and Informal Communication Network; Upward Communication; Downward Communication; Horizontal Communication; Diagonal Communication; Grapevine
2*4	-	8		
Month- January 2027			Module/Unit: III	Sub-units planned
Lectures		Total	B) Writing Business Letter:	Importance of Business Letters; Difference between Personal and Business Letters; Structure and Format of Business Letters- Enquiry letter, complaint letter, request letter.
2*4	-	8		
Month- February 2027			Module/Unit: IV	Sub-units planned
2*4	-	8	C) Oral Skill	Oral and written skill, oral presentation: Comparing, Power Point Presentation, Interviewing famous Persons.
Month- March 2027			Module/Unit: IV	Sub-units planned
2*4	-	8	D) Report Writing	Introduction: Format of Report, Specimen of Report, Elements of Report, Types of Report, Structure of Report, Parts of Report.
Name and Sign of Teacher Miss. Komal Vilas Powar			Name and Signature of HOD Miss. Pallavi M. Dessai HEAD	

Note: In the above format, for each month for each teacher.

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of B Sc Computer Science Entire

(An Empowered Autonomous Institute)



Vivekanand College, Kolhapur (An Empowered Autonomous Institute)
Department of B Sc Computer Science Entire
Academic Year: 2026-2027
Annual Teaching Plan

Name of the teacher: Miss. Komal V. Powar
Programme: B.Sc. Computer Science Entire(B.C.S)
III

Semester- III

Subject: English

Course Title: Business communication

Month- July 2026			Module/Unit: I	Sub-units planned
Lectures		Total	A) Oral Communication	Giving Speeches and oral presentation, preparing to speak, developing formal speech, Extempore Speech .
6*4	-	24		
Month – Aug 2026			Module/Unit: I	Sub-units planned
Lectures		Total	B) E- Communication	Email Writing: Formal and Informal E- mail Writing, Format of e- mail wrWriting, E- mail Pals. Blog Writing: Petrsonal and Professional.
6*4	-	24		
Month- Sept 2026			Module/Unit: II	Sub-units planned
6*4	-	24	C) Group Discussion	Introduction, initiating the group discussion,invit inviting comments, expressing agreement and disagreement, making suggestions or accepting and refusing suggestions, conclusion.
Month- Oct 2026			Module/Unit: II	Sub-units planned
6*4	-	24	D) Seminar	Introduction, preparing for seminar, conducting seminar, organizing conference, writing and preparation of paper.
Name and Sign of Teacher Miss Komal Vilas Powar			Name and Signature of HOD Miss. Pallavi M.Dessai	

Note: In the above format, for each month for each teacher.

HEAD
Department of B.Sc. Computer Science (Entire)
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)
 Department of B Sc Computer Science Entire
 Academic Year: 2026-2027
Annual Teaching Plan

Name of the teacher: Miss.Komal Vilas Powar

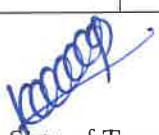
Programme: B.Sc. Computer Science Entire (B.C.S)

Semester-IV

Subject: English.

Course Title: Business communication

Month- Dec 2026			Module/Unit: III	Sub-units planned
Lectures		Total	A) Strategies for effective communication	Introduction, 'M' approaches, 7C's of communication, other gateway to communication.
6*4	-	24		
Month- January 2027			Module/Unit: III	Sub-units planned
Lectures		Total	B) Presentation Skill	Introduction, Preparing a presentation, structuring content, visual aids, delivering a presentation, language and various expression during presentation.
6*4	-	24		
Month- February 2027			Module/Unit: IV	Sub-units planned

6*4	-	24	C) Career Skills	Introduction, Job Application, Cover Letters, CV or Resume, Formats.
Month- March 2027			Module/Unit: IV	Sub-units planned
6*4		24	D) Interview	Introduction, Preparing for the interview, making the best first impression, importance of dressing sense, interview body language that sends the right message, frequently asked questions, telephonic & interview.
 Name and Sign of Teacher Miss. Komal Vilas Powar   Name and Signature of HOD Miss. Pallavi M. Dessai HEAD				

Note: In the above format, for each month for each teacher.

Department of B.Sc. Computer Science (Entire)
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)