## Shri Vijaysinha Yadav College, Peth Vadgaon

# **Department of Computer Science**

2023-2024

#### **Short Term Course**

Course Name :	R PROGRAMMING						
Duration	30 days(4 weeks)						
	01/02/2024 to 11/03/2024						
Time	9.00 am to 10.00 am						
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#### **About Course:**

Department of Computer Science conducted a Four weeks Short Term course from 01/02/2024 to 11/03/2024 in offline mode before the commencement of regular classes. R is a powerful statistical computing and graphics language widely used in various fields such as data analysis, machine learning, and scientific research.

The course covered fundamental concepts, practical applications, and hands-on exercises to equip participants with essential skills in R programming.

#### Course Structure:

- 1. Introduction to R: Installation, basic syntax, data types, and data structures.
- 2. Data Manipulation: Importing data, data cleaning, subletting, and merging datasets.
- 3. Data Visualization: Plotting graphs, histograms, scatter plots, and customizing visualizations.
- 4. Statistical Analysis: Descriptive statistics, hypothesis testing, regression analysis, and ANOVA.
- 5. Advanced Topics: Introduction to machine learning algorithms, packages, and extensions.

### Key Learning Objectives:

- 1. Gain proficiency in R programming language.
- 2. Understand data manipulation techniques for analysis.
- 3. Learn to create insightful visualizations using R.
- 4. Perform statistical analysis and hypothesis testing.
- 5. Explore advanced topics such as machine learning with R.

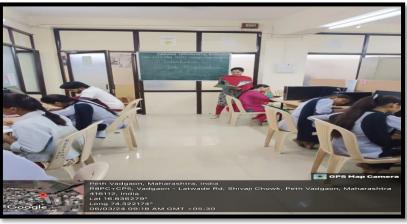
# Course Delivery:

- 1. Lectures: Interactive sessions covering theoretical concepts and practical demonstrations.
- 2. Hands-on Labs: Guided exercises to reinforce learning and practice R programming skills.
- 3. Case Studies: Real-world examples from scientific research to illustrate R application.
- 4. Project Work: Independent or group projects to apply learned concepts to analyse datasets relevant to students' fields of study.

#### **Outcomes:**

- 1. Increased proficiency in R programming among BSc students.
- 2. Enhanced ability to manipulate and analyse scientific data using R.
- 3. Improved skills in creating insightful visualizations for scientific presentations.
- 4. Better understanding and application of statistical analysis methods in research projects.
- 5. Development of critical thinking and problem-solving skills through project work.







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