



MORE INFORMATION

ABOUT THE COURSE

Department of Mathematical Sciences introduces the certificate course on R Programming for Beginners. This course aims to enhance the competence of professionals and students in data analysis related to their field of specialization.

Course Highlights

- Online Mode
- Hands-on Training Session.
- Assignments.
- Continuous Evaluation.
- Self-Paced Learning

Course Instructor

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ABOUT R SOFTWARE

R is a general-purpose statistical software package used in many fields of research. It is licensed for free, as open-source software. The system is developed by a large group of people, almost all volunteers. It has a large and growing user and developer base.

P.D.PATEL INSTITUTE OF APPLIED SCIENCES

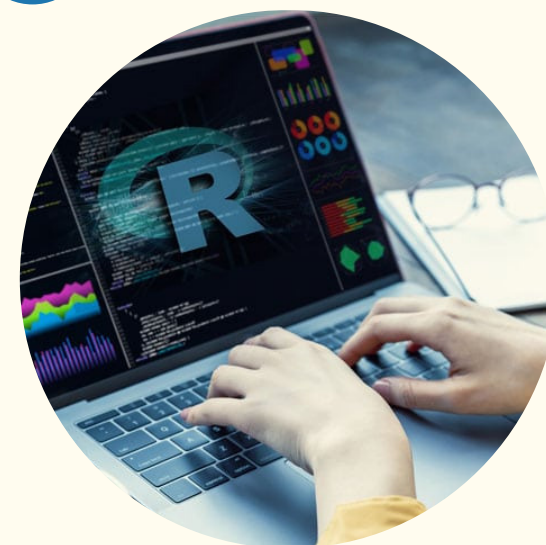
The P D Patel Institute of Applied Sciences (PDPIAS) is one of the constellation of colleges in the CHARUSAT Campus. It was launched in the year 2007 to impart education and conduct research in emerging areas of sciences such as Biosciences, Physical Sciences, Chemical Sciences, and Mathematical Sciences.

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REGISTER BEFORE MAY 10, 2023

CERTIFICATE COURSE R PROGRAMMING FOR BEGINNERS

STARTS FROM MAY 22, 2023



For registration
[Click Here](#) or scan



WHO CAN JOIN THE COURSE?

- UG students of Science, Engineering, Humanities with basic Mathematics and Statistics background.
- Software developers, programmers, working professionals in Analytics, simulation, and students of data science.
- Prerequisites Knowledge of Basic mathematics up to Class 12 is preferred but not mandatory.

Fees For Registration Rs. 2000/-

Registration fee should be paid online

(Account details are given below)

Bank A/c Name : Charotar University of Science and Technology

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Bank IFSC Code : SBIN0010961

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LEARNING OUTCOMES

At the end of the course, participants will be able to

- Install different types of R packages for data analysis use.
- Use R software as a calculator, and perform matrix calculations.
- Understand logical operators, conditional statements, and loops for programming and developing a user-defined function.
- Create data frames, data import, export in different formats, and use statistical computations like mean, median, mode, and other summary measures.
- Use statistical functions for data analysis and random number generation. Construct different types of graphs and plots.

PARTICIPATION CERTIFICATE

After successful completion of the course, participant will receive E- Certificate.



COURSE CONTENTS

- Introduction to R
- Installing R and R Studio
- Working with Data
- Creating Objects
- Arrays
- Matrices
- Matrix Computations
- Data Frame
- List
- Expressions
- Operators
- R Packages
- Graphical Tools
- Pie Chart
- Bar Chart
- Line Diagram
- Statistical Data Analysis
- Descriptive Statistics
- Probability Distributions
- Discrete Distributions
- Continuous Distributions
- Programming with R
- Control Statements
- If Statement
- If Else Statement
- Else If Statement
- Switch Statement
- Loops
- For Loop
- Nested For Loop
- While Loop
- Writing Functions
- Predefined Functions
- User-defined Functions
- Generating Random Numbers

Course Duration: 8 Weeks