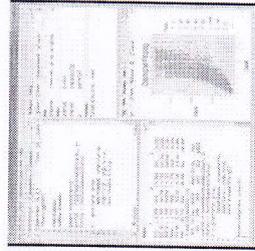
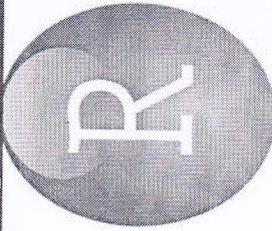


# Certificate Course in Statistical Analysis

## using R



# Use R!



**Shiksha Mandal's**  
**Bajaj College of Science, Wardha**  
**(An Autonomous College)**

### Organising Committee:

Course Coordinator

Dr. Dhiraj Naik

Assistant Professor, BCS

Convenor

Dr. Om Mahodaya

Principal, BCS

### About the Course: Why to get acquainted with R for statistical analysis?

At early career, undergraduate and postgraduate students, PhD scholars and young faculties are in overwhelming situation once they acquire the experimental and observation based data. Undergraduate and postgraduate students for project work as well as research scholars for PhD are at a critical stage of analyzing data.

Through an interactive course on statistical data analysis, Bajaj College of Science is committed to bridge this curriculum gap with self learning skill sets with help of open source R statistical software and facilitate the scholars to analyze their data in different disciplines such as Chemical Sciences, Life Sciences, Pharmaceutical Sciences and the related fields.

With the help of this course, student will gain confidence in entering as data analyst in various fields.

The aim of the course is to provide a comprehensive understanding of basic statistical concepts and to give hands-on experience in applying R statistical software.

### Participant's Takeaway from the Course

At the end of the course the participants will:-

Increase broader understanding of what, when and how to use different statistical techniques

Gain adequate expertise in handling R software

Exposed to various research data in different fields of scientific research

Able to perform data analysis independently using R

### Course Content

Data entry, structure of dataset, R basics Data and variable transformations, Decision to select parametric and nonparametric test, Student's t test, ANOVA, Regression, Correlation, graphing tools in R

### For whom

The program is exclusively designed for undergraduate and postgraduate students, research scholars and academicians (college teachers, University faculty) who are actively engaged in teaching and research.

The program is so designed to keep it jargon free.

### Time and Venue

At present online mode of teaching and learning using Open Edx portal. After registration, all relevant apps will be provided to the students.

*Shiksha Mandal*  
Coordinator

P. G. Department Of Botany

Bajaj College Of Science, Wardha

*Shiksha Mandal*  
Head | Incharge

Department of Botany

Bajaj College of Science, Wardha

### Essential Gadgets for the Course

Participant should have smartphone with android support and internet support (Any internet data package will work). Participants can practice learning modules of this course on windows, linux or OS operating desktop or laptop or iPad.

### Pre-requisites for Enrollment:

Should have patience in learning new skill. Should be able to do careful typing/texting and avoiding spelling mistakes. The most important pre-requisite is "willingness" to learn R. R is case sensitive language.

### Learning and Evaluation Process:

**100% online.** Teaching language- English (occasionally Marathi or Hindi depend upon need of participants). Teaching will be carried out using pre-recorded videos and with zoom platform. Participants will be pre-informed about classes with zoom platform. Self-paced learning option. **Assessment will be done with online quizzes, assignments with real data sets, and final mini-project.** Evaluation will be carried out with assignments for various modules. Project based learning will be encouraged with data acquired from participants.

### Course Fee and How to Apply:

Course fee is Rs. 500/-.

The last date for registration is **2<sup>nd</sup> August 2021** by 5.30pm.

Applicants can register on <https://docs.google.com/forms/d/e/1FAIpQLSe5F8U9yIN-RHt13YUpAizF2Imr9xWVR0yiehWt8n2vqyEVZig/viewform>

**before 2<sup>nd</sup> August 2021 with payment (cash).** Applicants has given choice to pay the course fee after two-four weeks of course participation. Course admissions will be first come first basis.

### Contact address of course coordinator:

Dhiraj Naik

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