



**DST TECHNOLOGY ENABLING CENTRE, PANTNAGAR**

*organizes*

**1 MONTH ONLINE CERTIFICATE COURSE on**

**DATA ANALYSIS:**

**EXPLORING R SOFTWARE**

**Starting  
from**



**JUNE 15,  
2026**

**An initiative of DST-Technology Enabling Centre  
G.B. Pant University of Agriculture and Technology, Pantnagar**

## ABOUT THE COURSE

The DST - Technology Enabling Centre (TEC) of G.B. Pant University of Agriculture and Technology, Pantnagar is launching a one month online certificate course on '**Data Analysis: Exploring R Software**' from June 15 to July 15, 2026. The course is open for all undergraduate, postgraduate, and doctoral students as well as for interested young professionals of all State Agricultural Universities (SAUs), ICAR Institutes, Central Universities, other State Universities and higher education institutes. In the present context, the use of Data Analysis is dominant in academic research, scientific publications and R is one of the most prevailing and extensively used languages for statistical computing and graphics. This one month online certificate course is conceptualized to offer students, researchers and professionals with a robust knowledge in data analysis using the R programming. This course is intended for academicians from agriculture science and technological disciplines who want to boost their analytical proficiencies and data interpretation skills. It will equip participants with the practical knowledge necessary to efficiently sort and analyze data using R's extensive libraries and tools. This online certificate course is fixated on hands-on learning, ensuring that the participants can apply this to experimental database and analytical problems.

## COURSE CURRICULUM

**Introduction of R and RStudio:** Installation of R and RStudio, understanding the R environment, basics of the R console, R packages and libraries.

**R Programming Fundamentals:** Basic syntax and data types (vectors, matrix, list, data frames), operators, control structures (if/else, loops).

**Data Structures and Manipulation:** Creating and importing data, data preprocessing and cleaning, data transformation.

**Data Visualization with ggplot2:** Principles of efficient data visualization, creating different graphical plots (histogram, scatter plots, boxplot), customization and annotation of visualizations.

**Descriptive Statistics and Basic Inferential Tests:** Evaluating measures of central tendency and dispersion, conducting t-test, f-test, ANOVA and correlation analysis in R.

**Introduction of Regression Analysis:** Simple and multiple linear regression modelling, interpretation of model output, assumptions and model diagnostics.

**Dealing with Time Series and Spatial Data (Introduction):** Basic principles of handling time-dependent data and an introduction of spatial data visualization in R.

## **COURSE DELIVERY METHODS**

- 1.Live Online Classes on Zoom
- 2.Live Hands-on Skilling Sessions
- 3.Expert Talks and Industry Insights
- 4.Problem Solving and Discussion Sessions
- 5.Projects and Case Studies
- 6.Assignments and Quizzes
- 7.Peer Review

## **ELIGIBILITY**

Open for all undergraduate, postgraduate, and doctoral students as well as for interested young professionals of all State Agricultural Universities (SAUs), ICAR Institutes, Central Universities, other State Universities and higher education institutes.

Desirable: Working knowledge of computer and internet

## **ABOUT PANTNAGAR AND DST-TEC**

G. B. Pant University of Agriculture and Technology, Pantnagar is the first agricultural university of the country established on the Land Grant Pattern in the year 1960. The University is eulogized as 'Harbinger of Green Revolution' by Nobel Laureate Dr. Norman E. Borlaug for its immense contribution in making India self-sufficient in food grain production. Since inception, the University has produced excellent graduates and has an alumni strength of 50,000+ who are in leading positions in agriculture sectors across the country and the world. The University is one among the State Agricultural Universities of the country has been placed in World QS Rankings by Subject consecutively for last four years. To improve the quality of teaching, research and extension in agriculture and allied fields, the University makes utmost efforts through its 350 plus scientists working in 60 departments, and 4000 plus students.

The DST- Technology Enabling Centre (TEC) established at G.B. Pant University of Agriculture and Technology, Pantnagar is the first TEC awarded to a State Agricultural University and is also the first TEC in Uttarakhand. The TEC is working towards creating an ecosystem for assessment of technologies/prototypes/products developed within the university and within Uttarakhand, ultimately to enhance the prospect of commercialization. This 1 Month Online Certificate Course on Data Analysis: Exploring R Software is another unique effort in this direction.

## REGISTRATION LINK AND PAYMENT DETAILS

**Registration Fees: 2000/- (Rupees Two Thousand only)** The Registration Fee is to be deposited in the following account and the screenshot is to be updated in the Registration Form

Account Number: 10773372306

Account Name: Agriculture College Revolving Fund

Bank name: State Bank of India, Pantnagar

IFSC Code: SBIN0001133

## FOR REGISTRATION



**CLICK HERE**

<https://forms.gle/t9duqPEswVgUQCc29>

OR

SCAN  
THIS QR



## IMPORTANT DATES

**Last Date for Registration** : June 12, 2026

**Course Duration** : June 15 to July 15, 2026

For any queries, please contact :



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<https://www.gbpuat.ac.in>