

Registration Process

Registration link will be activated on
1st September 2026
<https://forms.gle/ZKhd5URJPF8fSaje7>

Last date of registration: 5th September 2026
(3:00 PM)

Selected candidates will be informed via email by
5.00 PM on 5th September 2026.

The selected candidates must submit the registration
fee by 11:00 AM on or before 7th September 2026.

- ✓ Open to Faculty, Ph.D. Scholars, and PG Students (Internal & External)
- ✓ Prerequisite: Basic computer skills
- ✓ Maximum seat availability: 30
- ✓ All participants are requested to bring their own laptops for hands-on practice sessions.

Fee Details:

PG/PhD Students – ₹500

No Fee for Internal Faculty Members
(Application should be submitted through Proper Channel)

External Faculty / Scientists – ₹2,000

(No TA/DA will be admissible. Accommodation and food arrangements will be made on a payment basis.)

Patron

Dr. P. S. Pandey,
Hon'ble Vice Chancellor,
RPCAU, Pusa.

Convenor

Dr. Amaresh Chandra,
Dean, CBS&H,
RPCAU, Pusa.

Organizing Secretary

Dr. Mahesh Kumar,
Assoc. Prof (Ag. Stat.) & HoD,
Statistics & Computer Applications

Course Coordinator

Dr. Ram Kumar Choudhary,
Assoc. Prof. (Ag. Stat.)

Co-Course Coordinators

Dr. Manjubala M,
Asstt. Prof. (Ag. Stat.)



Training-cum-Workshop on Statistical Decision Tools for Plant Breeding Research using R

9th – 11th September 2026

📍 Inaugural Venue: Conference Hall

Organized by
Department of Statistics and Computer Applications,
College of Basic Sciences & Humanities,
Dr. Rajendra Prasad Central Agricultural University,
Pusa, Samastipur, Bihar.

About RPCAU

Dr. Rajendra Prasad Central Agricultural University (RPCAU), Pusa, established on 7th October 2016 (formerly Rajendra Agricultural University, founded in 1970). The name Pusa is already a legend in Agricultural Terminology of the world. The history of Pusa dates back to July 5, 1784 more than 240 years ago, when a Stud farm was established at Poosah(Pusa), led by Lieutenant Major Frazer (Superintendent. 1793-1808) to breed cavalry horses through a sanad with the seal of East India Company at a rental fee of 1500 siccas for the land occupied. As the birth place of agricultural education and research in India, the university continues to advance teaching, research, and extension in agriculture and allied sciences, with special focus on Bihar.

About Training-cum-Workshop

This workshop is the fourth module of a six-module series aimed at developing statistical and analytical expertise for research applications. The module focuses on Statistical Decision Tools for Plant Breeding Research using R, providing hands-on training in genetic parameter analysis, trait association, experimental design, and G×E interaction analysis using R. The workshop emphasizes practical data analysis and interpretation to support informed decision-making in plant breeding research.



Resource Persons

- Dr. Mahesh Kumar, Assoc. Prof (Ag. Stat) & HoD, S&CA
- Dr. Nidhi, Assoc. Prof. (Stat.)
- Dr. Ram Kumar Choudhary, Assoc. Prof (Ag. Stat)
- Dr. Nitesh Kumar Sharma, Asstt. Prof. (Bioinformatics)
- Dr. Moumita Baishya, Asstt. Prof. (Ag. Stat.)
- Dr. Manjubala M, Asstt. Prof. (Ag. Stat.)

Contact Details:

- Dr. Ram Kumar Choudhary
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- Dr. Manjubala M
Phone Number: 9566542414
Email Id: manjubala99@rpcau.ac.in

Day 1 - Fundamentals of R

Session 1: Basics of R

Session 2: Basic Operations in R

Session 3: Genetic Parameters

Day 2 - Trait Analysis & Experimental Design

Session 4: Correlation Analysis in Plant Breeding

Session 5: Path Analysis

Session 6: Augmented Block Design

Day 3 - Multi-Environment Trials & Stability

Session 7: GE Interaction Analysis

Session 8: AMMI, PCA & Cluster Analysis for MLT

Outcomes

Perform basic operations and statistical analyses using R.

Gain expertise in visualization of Multi Location Trial data

Analyze genotype × environment interaction using AMMI, PCA, and cluster analysis

Ability to estimate and interpret Genetic Parameters in meaningful way