



वेदिकीला ऋषिः

NAVSARI AGRICULTURAL UNIVERSITY



विद्या सर्वत्र गौरवा

Two days Workshop  
on

“Advance Multivariate Techniques  
for Agricultural Research using R”

On the eve of

20<sup>th</sup> National Statistics Day

June 29-30, 2026

Organized by

Department of Agricultural Statistics

N. M. College of Agriculture

Navsari Agricultural University, Navsari

Under

NAU-CENTRA Project

(Establishment of Centralized Training and Advanced Data  
Analytics Hub)

Last date of Registration: 25<sup>th</sup> June, 2026

Registration link: <https://forms.gle/Y75ZGxYw7oQ3dmHH9>

Venue: Virtual Classroom, N. M. College of Agriculture, Navsari Agricultural  
University, Navsari - 396 450

## About workshop

### *“Analyse More, Discover More: Multivariate Techniques for Modern Agriculture”*

Agricultural research is increasingly generating large and complex datasets that require advanced statistical tools for meaningful interpretation. Modern multivariate techniques help researchers understand relationships among multiple variables, identify patterns, reduce data complexity and make informed decisions. The open-source software R has emerged as a powerful platform for implementing these techniques effectively.

On the occasion of the 20<sup>th</sup> National Statistics Day (June 29–30, 2026), the Department of Agricultural Statistics, N. M. College of Agriculture, Navsari Agricultural University, Navsari, under NAU-CENTRA (Establishment of Centralized Training and Advanced Data Analytics Hub), is organizing a Two-Day Workshop on “Advance Multivariate Techniques for Agricultural Research using R.”

The workshop aims to provide participants with both theoretical understanding and hands-on experience in advanced multivariate methods such as Principal Component Analysis, Cluster Analysis, Discriminant Analysis, Factor Analysis and other modern analytical techniques using R. The program will benefit researchers, scientists, faculty members and postgraduate students by enhancing their capacity to analyze complex agricultural datasets and derive meaningful scientific conclusions.

The workshop will serve as a valuable platform for strengthening statistical skills, promoting data-driven research, and fostering the adoption of advanced analytical methodologies in agricultural sciences.

## Objectives

1. To familiarize students with advanced multivariate techniques used in agricultural research
2. To provide practical exposure to multivariate data analysis using R
3. To strengthen analytical and data interpretation skills for research applications
4. To promote the use of modern statistical tools for evidence-based agricultural research

## Eligibility

Postgraduate students from NAU are eligible to attend this workshop. Registration is mandatory for participation. Seats are limited to 50 participants. Registration will be confirmed on a first-come, first-served basis.

## Important Dates

Last date for registration: June 25, 2026

Announcement of selected list of participant: June 27, 2026

## President



**Dr. T. R. Ahlawat**  
Hon'ble Vice Chancellor  
Navsari Agricultural University,  
Navsari, Gujarat

## Chief Guest



**Dr. Nitinkumar Solanki**  
Professor & Head,  
Department of Community Medicine  
GMERS Medical College,  
Navsari, Gujarat

## Conveners



**Dr. P. B. Patel**  
Principal & Dean,  
N. M. College of Agriculture,  
Navsari Agricultural  
University, Navsari, Gujarat



**Dr. Alok Shrivastava**  
Professor & Head,  
Department of Agricultural Statistics,  
N. M. College of Agriculture  
NAU, Navsari, Gujarat

## Organizing Secretaries



**Dr. Nitin Varshney**  
Assistant Professor,  
NMCA, NAU, Navsari



**Dr. A. P. Chaudhary**  
Assistant Professor,  
ACH, NAU, Navsari

## Coordinators



**Dr. P. R. Vekariya**  
Assistant Professor,  
NMCA, NAU, Navsari



**Prof. S.D. Muniya**  
Assistant Professor,  
NMCA, NAU, Navsari

# Schedule

Two days Workshop  
on

## “Advance Multivariate Techniques for Agricultural Research using R”

On the eve of  
20<sup>th</sup> National Statistics Day  
June 29-30, 2026

Day-01: 29/06/2026

### Inaugural Session

Registration & Kit Distribution		08:30-09:30 hrs.
Lightening of Lamp & Prayer		
Welcome Note & Flower presentation	Ms. Sejal Muniya	09:30 – 09:35 hrs.
Introduction of the Workshop	Dr. Alok Shrivastava	09:35 – 09:40 hrs.
Address by Convener	Dr. P. B. Patel	09:40 – 09:45 hrs.
Remarks by Chief Guest	Dr. Nitinkumar Solanki	09:45 – 09:55 hrs.
Felicitation of the Dignitaries		09:55 – 10:00 hrs
Presidential address	Dr. T. R. Ahlawat	10:00 – 10:15 hrs.
Vote of Thanks	Dr. Nitin Varshney	10:15 – 10:20 hrs.
Tea Break		10:20 – 10:30 hrs.

### Technical Sessions

#### Keynote Speakers

Day-01

Journey into Multivariate  
Statistics and R  
Programming

Time: 10:30 to 12:30



**Dr. Nitin Varshney**

Assistant Professor,  
NMCA, NAU, Navsari

Dimensionality  
Reduction and Pattern  
Discovery in Agricultural  
Research through PCA

Time: 14:00 to 17:00



**Dr. D. J. Parmar**

Professor & Head  
Dept. of Ag. Stat, BACA,  
AAU, Anand

**Multidimensional Scaling:  
Mapping Similarities and  
Patterns in Agricultural  
Research using R**  
**Time: 08:30 to 10:30**



**Dr. Hitesh Parmar**  
Assistant Professor, Dept.  
of Business Management  
SPU, V.V. Nagar, Anand

**Application of Data  
Classification and Cluster  
Analysis in Agricultural  
Research using R**  
**Time: 10:30 to 12:30**



**Dr. Rahul Banerjee**  
Scientist  
Division of Sample  
Surveys, ICAR-IASRI,  
New Delhi

**Factor Analysis in  
Agricultural Research:  
From Exploration to  
Confirmation with R**  
**Time: 13:30 to 15:30**



**Dr. M. T. Khorajiya**  
Assistant Professor,  
Dept. of Ag. Econ.  
NMCA, NAU, Navsari

### Valedictory Session

Dr. Alok Shrivastava	Executive Summary	15:45 – 16:00 hrs.
	Address by Chairman	16:00 – 16:15 hrs.
Dr. A. P. Chaudhary	Vote of Thanks	16:15 – 16:20 hrs.

### Certificates

Certificate will be given to registered participants only with full attendance in the workshop

### For Correspondence

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