



वेदिकीला ऋषिः

NAVSARI AGRICULTURAL UNIVERSITY



विद्या सर्वत्र गौरवा

Two days Workshop
on

“Advance Multivariate Techniques
for Agricultural Research using R”

On the eve of

20th 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: 25th June, 2022

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 20th 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 with payment: 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
20th 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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