



**Two days National Seminar cum Workshop
on**

“Food for Thought: Applied Statistics and its Implications”

**On the eve of 16th National Statistics Day
June 29-30, 2022**

Jointly organized by

Department of Agricultural Statistics, NMCA

&

Centre for Advanced Agricultural Science and Technology, NAHEP

Navsari Agricultural University, Navsari

in association with

National Sample Survey Office (NSSO), Gujarat

&

Gujarat Statistical Association (GSA), Gujarat



Last date of Registration: 20th June, 2022

Registration link: <https://forms.gle/GTzXKBZxXsLBdm1P8>

Venue: Navsari Agricultural University, Navsari - 396 450

Invitation

It gives us immense pleasure to cordially welcome you in Two days National Seminar cum Workshop on “Food for Thought: Applied Statistics and its Implication” on the eve of 16th National Statistics Day, 29-30th June 2022 jointly organised by Department of Agricultural Statistics, NMCA, and Centre for Advanced Agricultural Science and Technology (CAAST), NAHEP, NAU, Navsari.

About seminar cum workshop:

“Data is like garbage. You’d better know what you are going to do with it before you collect it.” ~ Mark Twain

Advance applied science researchers have experienced a dramatic change in knowledge and an exponential increase in technology. A lot of these technical developments involve agricultural researchers and these researchers deals with groups rather than individual cases and usually field and experimental study. The goal of applied research is to provide data to support existing knowledge by filling information gaps or develop new methods. Agricultural research requires proper study design, management, data collection and analysis to obtain statistically sound results.

The statistical portion is a vital component of any research study. The research methodology and the application of statistical tools and techniques have evolved over the years and have significantly helped the research activities throughout the globe. The results and inferences are not accurately possible without proper validation with various statistical tools and tests. The evidence based research and practice has to incorporate statistical tools in the methodology right from the planning stage of the study itself.

In this connection, on the eve of the 16th National Statistics day, 2022, the Department of Agricultural Statistics, & Centre for Advanced Agricultural Science and Technology (CAAST), NAHEP, NAU, Navsari is celebrating it in offline mode in the association with National Sample Survey Office (NSSO), Gujarat & Gujarat Statistical Association (GSA), Gujarat. This National seminar cum workshop is focusing the basic concept of statistical research design and techniques used for analysis and interpretation of investigations and also discuss the experimental error and biasness in the research investigation.

Objectives:

1. To sensitize the versatility of applied statistics in every walk of life
2. To educate and upgrade the students with latest trends in the field of Applied statistics
3. Exploring advances of data analysis and interpretation of the results
4. Cascading available software and its efficacy for data analysis.

Eligibility:

Postgraduate students and faculties from agriculture and allied disciplines from ICAR/SAUs are eligible to attend this seminar cum workshop. Prior registration is mandatory for participation. Approx. 300 seats are available for workshop in this meet which would be distributed as under:

- Research Scholar/Students (PG/Ph.D.): Approx. **250 seats**
- Faculty/Scientists/Academicians/Others: Approx. **50 seats**

All the participants are requested to kindly bring their own laptop for the workshop.

Registration link:

- <https://forms.gle/GTzXKBZxXsLBdm1P8>

Registration Fee:

After successful registration, the participants will receive a confirmation through email. Your final participation will be confirmed by Organizing secretary subject to deposit of registration fee (***includes seminar kit and meal***) along with online registration form.

- Research Scholar/Students (PG/Ph.D.): ₹ **600/-**
- Faculty/Scientists/Academicians/Others: ₹ **2000/-**

Important Dates:

Last date for registration with payment: **June 20, 2022**
Announcement of selected list of participant: **June 26, 2022**

Name: Dept of Agril. Statistics
Account Number: 41028964005
IFSC Code: SBIN0003889
Bank: SBI, Branch: Navsari Agri University,

Patron

Dr. Z. P. Patel

Hon'ble Vice Chancellor
Navsari Agricultural University, Navsari, Gujarat.

Chief Guest

Dr. P. S. Pandey

Assistant Director General (EP&HS)
Agricultural Education Division, ICAR, KAB-II, New Delhi-12.

Guest of Honour

Dr. Ravi R. Saxena,

Asso. Director of Research
Indira Gandhi Krishi
Vishwavidyalaya, Krishak Nagar,
Raipur.

Dr. A. Dhandhapani

Principal Scientist & Professor
(Stat), ICAR-NAARM,
Rajendranagar, Hyderabad.

Dr. N. D. Shah

President
Gujarat Statistical
Association, Gujarat.

Dr. Shakti Singh, (ISS),

Regional Head,
NSSD (Field Operation
Division) Regional Office
Vadodara.

Special Guest

Dr. T. R. Ahlawat

Directorate of Research & Dean Post Graduate Studies
Navsari Agricultural University, Navsari, Gujarat.

Conveners

Dr. R. M. Naik

Principal & Dean
N. M. College of Agriculture
Navsari Agricultural University, Navsari.

Dr. Alok Shrivastava

Professor & Head
Department of Agricultural Statistics
NMCA, NAU, Navsari.

Co Conveners

Dr. A. D. Kalola

Prof. & Head, (Agril. Statistics)
AAU, Anand.

Dr. G.K. Chaudhary

Prof. & Head, (Agril. Statistics)
SDAU, Dantiwada.

Dr. S.M. Upadhyay

Prof. & Head, (Agril. Statistics)
JAU, Junagadh.

Organizing Secretaries

Dr. Yogesh A. Garde

Assistant Professor
Department of Agricultural Statistics
NMCA, NAU, Navsari.

Dr. R. P. Gunaga

Associate Professor & Head
Department of Forest Products & Utilization; & Co-PI,
NAHEP-CAAST, CoF, NAU, Navsari.

Joint Organizing Secretaries

Dr. Nitin Varshney

Assistant Professor
Department of Agricultural Statistics
NMCA, NAU, Navsari.

Mr. Arvind P. Chaudhary

Assistant Professor
Department of Agricultural Statistics
ACHF, NAU, Navsari.

Dr. M. S. Sankanur

Assistant Professor & Co-PI,
NAHEP-CAAST,
CoF, NAU, Navsari.

Coordinator

Dr. Ajay V. Narwade

Associate Professor & Head
Department of Plant Physiology,
NMCA, NAU, Navsari.

Dr. B. L. Radadiya

Associate Professor (Computer Science)
Department of Agricultural Statistics,
NMCA, NAU, Navsari.

National level Advisory Committee

- Dr. M. L. Lakhera, Professor, Dept. of Agril. Statistics & Social Science, College of Agriculture, IGKV, Raipur.
- Dr. Tauqueer Ahmad, Principle Scientist & Head Division of Sample Survey, ICAR-IASRI, New Delhi.
- Dr. V. B. Darji, Professor, Dept. of Agril. Statistics, AAU, Anand, Gujarat.
- Dr. Ashalatha K. V., Professor and Head, Dept. of Agricultural Statistics, UAS, Dharwad.
- Dr. Abhishek Singh, Associate Professor (Agril. Statistics), Institute of Agricultural Sciences, BHU, Varanasi.
- Dr. D. J. Parmar, Associate Professor, AAU, Anand, Gujarat.
- Dr. D. V. Patel, Associate Professor, JAU, Junagadh, Gujarat.
- Dr. M. K. Chaudhary, Associate Professor, SDAU, SK Nagar, Gujarat.
- Dr. Digvijoy Singh Dhakre, Associate Professor, Division of Agricultural Statistics, Visva-Bharati, Santiniketan.
- Dr. Imran Khan, Associate Professor, Division of Agricultural Statistics, SKUAST-K Shalimar.
- Dr. Ankur Biswas, Scientist, Division of Sample Survey, ICAR-IASRI, New Delhi.
- Dr. Vinayak R Nikam, Scientist (Ag. Extension) ICAR-NIAP, New Delhi.
- Dr. Sankalp Ojha, Assistant Professor, Dept. of Agricultural Statistics, UBKV, Cooch Behar, West Bengal.
- Dr. Prity, Kumari, Assistant Professor, AAU, Anand, Gujarat.
- Dr. M. S. Shitap, Assistant Professor, JAU, Junagadh, Gujarat.
- Dr. K. K. Pandey, Assistant professor, College of Agriculture, Bhatapara, IGKV Raipur.
- Dr. Bhagyashree Dhekale, Assistant Professor, Division of Agricultural Statistics, SKUAST-K Shalimar.
- Dr. Santosh G. Patil, Assistant Professor (Agril. Statistics), Tamil Nadu Agricultural University, Coimbatore.
- Dr. Santhosha Rathod, Scientist (Agril. Statistics), ICAR-Indian Institute of Rice Research, Hyderabad.
- Dr. P. B. Marviya, Assistant Professor, SDAU, SK Nagar, Gujarat.

Local Advisory Committee

- Dr. H. V. Pandya, Registrar, NAU, Navsari.
- Dr. V. R. Naik, Associate Director of Research (Agri), NAU, Navsari.
- Dr. Lalit Mahatma, Associate Director of Research (Agri), NAU, Navsari.
- Dr. R. M. Naik, DSW, NAU, Navsari.
- Dr. Ruchira Shukla, Principal and Dean, ABM, NAU, Navsari.
- Dr. Alka Singh, Principal and Dean, ACHF, NAU, Navsari.
- Dr. P. K. Shrivastava, Principal and Dean, CoF, NAU, Navsari.
- Dr. D.D. Patel, Principal, CoA, Bharuch, NAU, Navsari.
- Dr. J.J. Pastagia, Principal, CoA, Waghai, NAU, Navsari.
- Dr. Narendra Singh, Professor & Head (Agril. Economics), NMCA, NAU, Navsari.
- Dr. K. G. Patel, Professor & Head (Soil Science and Agricultural Chemistry), NMCA, NAU, Navsari.
- Dr. D. P. Sharma, Professor & Head (Agril. Extension), NMCA, NAU, Navsari.
- Dr. S. J. Patil, Professor and Head. (Horticulture), NMCA, NAU, Navsari.
- Dr. V. P. Usadadiya, Professor and Head. (Agronomy), NMCA, NAU, Navsari.
- Dr. P. R. Pandey (Agril. Engineering), Professor & Head, NMCA, NAU, Navsari.
- Dr. Abhishek Shukla, Professor & Head (Entomology), NMCA, NAU, Navsari.
- Dr. K. B. Rakholiya, Professor & Head (Pl. Pathology), NMCA, NAU, Navsari.
- Dr. R. K. Patel, Professor & Head (GPB), NMCA, NAU, Navsari
- Dr. Susheel Singh, Professor & Head (FQTL), NMCA, NAU, Navsari.
- Dr. H.E. Patil, Associate Res. Scientist, HMRS, Waghai, NAU, Navsari.
- Dr. A. R. Lathiya, Planning Officer, NAU, Navsari.
- Shri. C. R. Naik, Comptroller, NAU, Navsari.

Local Organising Committee

- Dr. Vishal Thorat, Assistant Professor (Agril. Economics), ABM, NAU, Navsari.
- Dr. Gaurav Sharma, Assistant Professor, (Agril. Economics), NMCA, NAU, Navsari.
- Dr. Vipul Shinde, Assistant Professor (Agril. Engineering), NMCA, NAU, Navsari.
- Dr. Sumit Salunkhe, (Scientist – Ext Ed), KVK, NAU, Navsari.
- Dr. S. K. Pradhan, Assistant Professor, (Animal Sci), NMCA, NAU, Navsari.
- Dr. K. G. Modha, Associate Professor (GPB), NMCA, NAU, Navsari.
- Dr. D. R. Bhandari, Associate Professor (Horticulture), NAU, Navsari
- Dr. J. V. Varasani, Assistant Research Scientist. (Agril. Economics), NMCA, NAU, Navsari.
- Dr. P. B. Khodifad, Assistant Professor, (Agril. Extension), NMCA, NAU, Navsari.
- Dr. K. L. Chaudhary, Assistant Professor, (Agril. Extension), NMCA, NAU, Navsari.
- Dr. K. S. Chaudhary, Assistant Professor (Agri. Business), ABM, NAU, Navsari.
- Prof. N. M. Patel, Assistant Professor, (Horticulture), NAU, Navsari.
- Prof. J. R. Naik, Assistant Professor. (Soil Science and Agricultural Chemistry), NAU, Navsari.
- Dr. Narendra Singh, Assistant Research Scientist. (Soil Science), NAU, Navsari.
- Dr. V.A. Patil, Assistant Professor (Plant Pathology), NAU, Navsari.
- Dr. M. D. Khunt, Assistant Professor, (Agril. Microbiology), NMCA, NAU, Navsari.
- Dr. Manjushree Singh, Assistant Professor (Agril. Engineering), NMCA, NAU, Navsari.
- Dr. Abhijit Chaudhary, SRF, DR office, NAU, Navsari.

Two days National Seminar cum Workshop
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Day: 01 – 29/06/2022		
Inaugural Session		
Welcome Note & Flower presentation	Dr. Y. A. Garde	09:00 – 09:10 hrs.
Introduction of the seminar cum Workshop its objective	Dr. Alok Shrivastava, Prof. & Head	09:10 – 09:20 hrs.
Remarks by Guest of honors	Dr. Shakti Singh (ISS), NSSO, GJ	09:20 – 09:25 hrs.
	Dr. A. Dhandhapani	09:25 – 09:30 hrs.
	Dr. Ravi R. Saxena	09:30 – 09:35 hrs.
	Dr. N. D. Shah	09:35 – 09:40 hrs.
Remarks by Special Guest	Dr. T. R. Ahlawat	09:40 – 09:50 hrs.
Remarks by Chief Guest	Dr. P. S. Pandey	09:50 – 10:00 hrs.
Patron address	Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU	10:00 – 10:10 hrs.
Vote of Thanks	Dr. Nitin Varshney	10:10 – 10:15 hrs.
Tea Break		10:15 – 10:30 hrs.
Technical Session		
Speaker	Topic	Time
Dr. Shakti Singh, ISS Regional Head, National Statistical Office- (Field Operation Division), Regional Office, Vadodara.	NSSO : Exploring the unexplored and potential areas in Applied Statistics	11:00 – 12:00 hrs.
Dr C D Bhavsar, Professor & Head, Department of Statistics, Gujarat University, Execute Member, Gujarat Statistical Association, (GSA), Gujarat.	“Statistical Techniques used in Data Science”	12:00 – 13:00 hrs
Lunch break		13:00 – 14:00 hrs.
Dr. Ravi R. Saxena, Associate Directorate of Research & Professor (Agril. Statistics), Indira Gandhi Krishi Vishwavidyalaya, Krishak Nagar, Raipur.	Big data analysis in Agricultural science: needs of hours	14:00 – 15:00 hrs
Dr. A. Dhandhapani Principal Scientist and Professor (Agril Statistics) ICAR-NAARM, Rajendranagar, Hyderabad.	Statistical modelling & data Science: Past, Present and Perceptions	15:00 – 16:00 hrs
Dr. D. K. Ghosh UGC BSR Faculty Fellow, Retired Professor and Head (Statistics) Saurashtra University, Rajkot, Gujarat.	Redefining the methodology of design of experiments in Agricultural research	16:00 – 17:00 hrs

Day: 02 – 30/06/2022			
Workshop Session			
Speaker	Title	Topic to be cover	Time
Dr. Dhaval Mehta Assistant Professor Dept. of Business and Industrial Management Veer Narmad South Gujarat University, Surat	Redefining data analysis through R	A: Theory Introduction to R and R Studio and installations. Data type and their uses in R. Data import /export and packages in R. Functions in R. Plotting of graphs using time series analysis B: Practical	09:00 – 10: 30 hrs.

		Descriptive statistics, correlation and regression (Simple and Multiple), normality testing, Concepts of Autoregressive, Moving Average, ARMA, ARIMA modelling, ARCH, GARCH, etc.	
Tea Break			10:30 – 11:00 hrs.
Dr D J Parmar Associate Professor Department of Agricultural Statistics BACA, AAU, Anand	Data analysis through SAS: online Approach	A: Basic concepts, How to import data, variable commands, and syntax B: ANOVA, Normalization of data factorial concepts, Repeated measures ANOVA, ANCOVA, MANOVA Cluster analysis, Factor analysis, Non-parametric test, Control vs Rest contrast analysis, Nested design,	11:00 – 12:30 hrs.
Prof. H N Chhatrola Retd. Professor Dept. of Agril. Statistics, NAU, Navsari	MS Excel & HNCANOVA: an Innovative and easy way of data analysis	A: B: Test of significance, t, Z, F and Chi-square, ANOVA Pooled analysis, transformation, Conditional Formatting in Excel Pivot Tables and Power Query, V-lookup	12:30 – 13:30 hrs.
Lunch break			13:30 – 14:30 hrs.
Dr. Rakesh Shrivastava Professor & Head, Dept. of Statistics, M.S. University of Baroda Vadodara	Logit and Probit analysis & their interpretation: SPSS	A: Basic concepts of SPSS, Import data and define the variable, Case Studies B: Bivariate Regression Analysis, Logistic Regression Analysis, Multinomial Logistic Regression Analysis	14:30 – 16:00 hrs.

Valedictory Session		
Executive Summary	Dr Alok Shrivastava	16:00 – 16:10 hrs.
Address by Chairman	Dr. T. R. Ahlawat	16:10 – 16:20 hrs.
Vote of Thanks	Mr. Arvind Chaudhary	16:20 – 16:25 hrs.

Accommodation:

Accommodation in Guest Houses will be made available on request and on payment basis (as per university rule). Accommodation shall be reserved on first come first served basis after prior request. Please confirm your itinerary by sending E-mail to on nsd.nau@gmail.com

Certificates:

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

For Correspondence:

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Dr. Yogesh Garde, Organising Secretary – Mobile: 8469764778

Dr. Nitin Varshney, Joint Organising Secretary – Mobile: 9717361912

Mr. Arvind Chaudhary, Joint Organising Secretary – Mobile: 9662838469



NATIONAL Statistics Day

June 29

Father of
Indian Statistics

Late Prof Prasanta Chandra Mahalanobis