



**Indian Council of Agricultural Research (ICAR)  
National Agricultural Higher Education Project (NAHEP)  
Centre for Advanced Agricultural Science and Technology (CAAST)**

**Workshop cum Training  
on  
“Market Analytics with R - Phase II”  
02<sup>nd</sup> to 04<sup>th</sup> March, 2020**



**Organizing Secretary  
Dr. Dhaval R. Kathiriya**

**Joint Organizing Secretary  
Dr. Prity Kumari**

**Centre for Agricultural Market Intelligence under NAHEP-CAAST  
International Agribusiness Management Institute  
Anand Agricultural University, Anand**

## Background

Anand Agricultural University has been awarded an ICAR- World bank funded project to establish Centre for Agricultural Market Intelligence. The major objectives of this project include price forecasting and behavior, export competitiveness, evaluation of e-NAM, market institutions and capacity building of faculty, students, farmers and other stakeholders. Experts from country's premium institutes including IIM- Ahmadabad, Institute of Rural Management (IRMA), Indian Space Research Organization (ISRO), Junagadh Agricultural University (JAU) and National Cooperative Dairy Federation of India (NCDFI) apart from three foreign universities namely Western Sydney University, Australia, The Papua New Guinea University of Technology and Texas Tech University, USA are associated with the project.

## About NAHEP- CAAST

Centre for Advanced Agricultural Science and Technology (CAAST) is a student centric subcomponent of the World Bank sponsored National Agricultural Higher Education Project (NAHEP) granted to AAU, Anand to provide a platform for strengthening educational and research activities of post graduate and doctoral students.

## About the Workshop

R is a statistical programming language that has rapidly gained popularity in financial time series analysis and predictive modelling which integrates statistics, marketing and analytics together on same platform. It is one of the most preferred open-source languages for market research data analysis. Since R contains a vast variety of packages, it enables us with many possibilities when processing, analyzing, modeling, inferential testing and forecasting. The R consists of functionality for a broad spectrum of statistical procedures such as time series analysis, classical parametric and nonparametric tests, linear and non-linear forecasting models, clustering, smoothing and many others area. Considering the need of analytics, this workshop aims to develop awareness and understanding of R Software specialized to cover the prospects of all statistical techniques required for market Intelligence.

## Purpose and Objective

To provide an overview of introductory R software and statistical techniques required for market Intelligence as a part of market intelligence to M.Sc., Ph.D students and Faculties.

## Course Contents

- Time Series Model
- Data Science and Forecasting
- Logit & Probit Model
- Co-integration
- Markov Chain
- Multivariate Analysis

## Venue

Information Technology Center, University Bhavan, Anand Agricultural University, Anand, Gujarat, India. (4 km away from Anand Railway station and the bus terminal)

## Eligibility

Masters, doctoral students and faculties of concern disciplines of ICAR accredited SAUs, CAUs, and other UGC recognized universities. Interested candidates are requested to apply through online registration process on or before February 28, 2020 (Friday).

## Accommodation & Registration

The participants will be provided free boarding and lodging. No registration fee is to be paid. The programme is fully sponsored by NAHEP- CAAST. Participants will not be entitled for TA. They have to make their own travel arrangements.

[CLICK HERE FOR REGISTRATION](#)

## Schedule

Date/Day	Time	Topic	Speaker
02-03-2020 Monday	09:00 to 9.45	Registration and Tea	
	09:45 to 11:15	Logit and Probit analysis	<b>Dr. Ramasubramanian</b> Principal Scientist, ICAR-IASRI,New Delhi
	11:15 to 11:30	Tea Break	
	11:30 to 13:00	Hands on Logit and Probit analysis	<b>Dr. Ramasubramanian</b> Principal Scientist, ICAR-IASRI,New Delhi
	13.00 to 14:00	Lunch	
	14:00 to 15:30	Co-integration	<b>Dr. R. K. Paul</b> Scientist, ICAR-IASRI, New Delhi
	15:30 to 15:45	Tea Break	
	15:45 to 17:15	Hands-on Co-integration	<b>Dr. R. K. Paul</b> Scientist, ICAR-IASRI, New Delhi
	19:00 to 20:00	Dinner	
03-03-2020 Tuesday	09:00 to 09:45	Breakfast	
	09:45 to 11:15	Markov Chain	<b>Dr. Ramasubramanian</b> Principal Scientist, ICAR-IASRI,New Delhi
	11:15 to 11:30	Tea Break	
	11:30 to 13:00	Hands on Markov Chain	<b>Dr. Ramasubramanian</b> Principal Scientist, ICAR-IASRI,New Delhi
	13.00 to 14:00	Lunch	
	14:00 to 15:30	Multivariate Analysis	<b>Dr. B. N. Mandal</b> Scientist, ICAR-IASRI, New Delhi
	15:30 to 15:45	Tea Break	
	15:45 to 17:15	Hands-on Multivariate Analysis	<b>Dr. B. N. Mandal</b> Scientist, ICAR-IASRI, New Delhi
	19:00 to 20:00	Dinner	
04-03-2020 Wednesday	09:00 to 09:45	Breakfast	
	09:45 to 11:15	Data Science using R	<b>Shri Subir Mitra</b> DGM, SAS Group, NDDB
	11:15 to 11:30	Tea Break	
	11:30 to 13:00	Forecasting using R	<b>Shri Subir Mitra</b> DGM, SAS Group, NDDB
	13:00 to 14:00	Lunch	
	14:00 to 15:30	ARIMAX model	<b>Dr. R. K. Paul</b> Scientist, ICAR-IASRI, New Delhi
	15.30 to 15.45	Tea Break	
	15.45 to 17.15	Long Memory Time Series Model	<b>Dr. R. K. Paul</b> Scientist, ICAR-IASRI, New Delhi

# Organizing Committee

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