



**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 I”
24th to 26th February, 2020**



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

**Joint Organizing Secretary
Dr. Prity Kumari
Dr. Chetan R. Dudhagara**

**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

- Introduction to Data Science with R
- Descriptive Statistics
- Exploratory Data Analysis
- Time Series 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 21, 2020 (Saturday). Selected candidates will be intimated through e-mail and list of selected candidates will be displayed on website..

Note: Phase-II will be commence from first week of March, 2020.

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
24-02-2020 Monday	09:00 to 9.45	Registration and Tea	
	09:45 to 11:15	Introduction to R Programming (Data Handling in R and Summary Measures)	Mr. Hitesh Solanki Scientist - C (CS) Information and Library Network (INFLIBNET) Centre, Infocity, Gandhinagar
	11:15 to 11:30	Tea Break	
	11:30 to 13:00	Data Visualization using R (Graphs, Descriptive Statistics)	
	13.00 to 14:00	Lunch	
	14:00 to 15:30	Hypothesis Testing (Parametric)	Dr. R. D. Chaudhari Associate Professor, Dept. of Statistics, M. G. Science Institute, Ahmedabad
	15:30 to 15:45	Tea Break	
	15:45 to 17:15	Hypothesis Testing Hands-on (Batch - 1)	Dr. Parag Shah Associate Professor, Dept. of Statistics, H L College of Commerce, Ahmedabad
		Hypothesis Testing Hands-on (Batch - 2)	Mr. Raj Popat Research Scholar, Dept of Agril. Statistics, BACA, AAU, Anand
	19:00 to 20:00	Dinner	
25-02-2020 Tuesday	09:00 to 09:45	Breakfast	
	09:45 to 11:15	Simple & Multiple Regression	Dr. Parag Shah Associate Professor, Dept. of Statistics, H L College of Commerce, Ahmedabad
	11:15 to 11:30	Tea Break	
	11:30 to 13:00	Simple & Multiple Regression Hands-on (Batch - 1)	
		Simple & Multiple Regression Hands-on (Batch - 2)	Mr. Raj Popat Research Scholar, Dept of Agril. Statistics, BACA, AAU, Anand
	13.00 to 14:00	Lunch	
	14:00 to 15:30	Logistic Regression	Dr. R. D. Chaudhari Associate Professor, Dept. of Statistics, M. G. Science Institute, Ahmedabad
	15:30 to 15:45	Tea Break	
	15:45 to 17:15	Logistic Regression Hands-on (Batch - 1)	
		Logistic Regression Hands-on (Batch - 2)	Mr. Raj Popat Research Scholar, Dept of Agril. Statistics, BACA, AAU, Anand
19:00 to 20:00	Dinner		
26-02-2020 Wednesday	09:00 to 09:45	Breakfast	
	09:45 to 11:15	Time Series Analysis	Dr. Parag Shah Associate Professor, Dept. of Statistics, H L College of Commerce, Ahmedabad
	11:15 to 11:30	Tea Break	
	11:30 to 13:00	Time Series Analysis Hands-on (Batch - 1)	
		Time Series Analysis Hands-on (Batch - 2)	Mr. Raj Popat Research Scholar, Dept of Agril. Statistics, BACA, AAU, Anand
	13:00 to 14:00	Lunch	
	14:00 to 15:30	ARIMA	Dr. R. D. Chaudhari Associate Professor, Dept. of Statistics, M. G. Science Institute, Ahmedabad
	15.30 to 15.45	Tea Break	
	15.45 to 17.15	ARIMA Hands-on (Batch - 1)	
		ARIMA Hands-on (Batch - 2)	Mr. Raj Popat

Organizing Committee

Patron

Dr. R. V. Vyas, Hon'ble Vice Chancellor, AAU, Anand

Programme Chairman

Dr. Y. C. Zala, Principal and Dean, IABMI, AAU

Programme Advisers

Dr. R. S. Pundir, Professor and Principal Investigator, NAHEP-CAAST, AAU

Dr. Y. A. Lad, Associate Professor, IABMI, AAU

Organizing Secretary

Dr. Dhaval R. Kathiriya, Professor, Director - Information Technology (I/C), AAU

Joint Organizing Secretary

Dr. Prity Kumari, Assistant Professor, Agril. Statistics, CoH, AAU

Dr. Chetan R. Dudhagara, Assistant Professor, IABMI, AAU

Committee Member

Dr. M. M. Lunagaria, Associate Professor, BACA, AAU

Dr. D. K. Parmar, Assistant Professor, AIT, AAU

Ms. Rucha Dave, Assistant Professor, Physics, BACA, AAU

Dr. Ritambhara Singh, Assistant Professor, IABMI, AAU

Dr. Snehal Mishra, Assistant Professor, IABMI, AAU

Programme Coordinators

Mr. Nirav Prajapati, Research Associate, NAHEP – CAAST, AAU

Mr. Bhavik Patel, Research Associate, NAHEP – CAAST, AAU

Dr. D. K. Jayswal, Research Associate, PIU- NAHEP, ICAR, New Delhi

Mr. Jitendra Parmar, Senior Research Fellow, NAHEP – CAAST, AAU

Ms. Janaki Patel, Senior Research Fellow, NAHEP – CAAST, AAU

Mr. Smit S. Bhavsar, Project Assistant, NAHEP-CAAST, AAU

For more information please contact

Dr. Dhaval R. Kathiriya

Professor & Director - Information Technology
Information Technology Center, University Bhavan,
Anand Agricultural University, Anand- 388110

Email: dit@aau.in

Tel/Fax: 02692- 225990/ 260712

Mob: +91 99980 09973