Indian Council of Agricultural Research (ICAR)

National Agricultural Higher Education Project (NAHEP)

Centre for Advanced Agricultural Science and Technology (CAAST)

Workshop

on

"Remote Sensing, Data Science & Agro-Block Chain for Market Intelligence"

31st January to 2nd February, 2020

Organizing Secretary

Dr. Dhaval R. Kathiriya

Joint Organizing Secretary

Ms. Rucha Dave

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
The advancements in computer technologies including data science provide on the go and comprehensive multidimensional analysis of large data set and help to develop models which are applicable for crop yield monitoring and estimation having economic impact for planning supply chain logistics. Machine learning is used to analyze the productivity and quality of the crops. Apart from that remote sensing technologies with multitemporal, multi sensor, multispectral data plays a vital role as accurate input for machine learning which ultimately serves the purpose of real time monitoring of crops and weather providing the platform for application based agricultural research for improving economic impact of technology. Considering the need of the era, this specialized workshop aims to develop awareness and understanding of modern computer and satellite based technology for agricultural applications.

Purpose and Objective
To provide an overview of the role of remote sensing technology, data science and ICT for agro- block chain as a part of market intelligence to M.Sc., Ph.D students and faculties.

Course Contents
- Overview of Agricultural Market Intelligence
- Satellite Remote sensing technology for agriculture (crop production forecasting and Agro-meteorology)
- Data Science and Machine learning for Market Intelligence
- ICT for smart Agro-Block Chain

Venue
International Agri-Business Management Institute, Anand Agricultural University, Anand, Gujarat, India.
(4 km away from Anand Railway station and the bus terminal and well connected with bus/auto facility)

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 January 27, 2020 (Monday). Selected candidates will be intimated through e-mail and list of selected candidates will be displayed on website.

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
31-01-2020 Friday	09:00 to 9:30	Registration and Tea	
	9:30 to 09:45	Overview of NAHEP Project	**Dr. R.S. Pundir** PI, NAHEP- CAAST, AAU, Anand
	09:45 to 11:15	Scope of satellite Remote sensing for agriculture	**Dr. B K Bhatacharya** Sci./Eng. – G, Head, Agriculture and Land Eco-system Division, ISRO, Ahmedabad
	11:15 to 11:30	Tea Break	
	11:30 to 13:00	Recent advancement in crop production forecasting using satellite remote sensing	**Dr. B K Bhatacharya** Sci./Eng. – G, Head, Agriculture and Land Eco-system Division, ISRO, Ahmedabad
	13:00 to 14:00	Lunch	
	14:00 to 15:30	Hyperspectral Remote Sensing for Agriculture	**Dr. Rojalin Tripathy** Scientist, ISRO, Ahmedabad
	15:30 to 15:45	Tea Break	
	15:45 to 17:15	Satellite Agro-meteorology for Agro-Advisory services	**Dr. Rahul Nigam** Scientist, ISRO, Ahmedabad
	19:00 to 20:00	Dinner	
01-02-2020 Saturday	09:00 to 09:45	Breakfast	
	09:45 to 11:15	Data Science for Market Intelligence (Session -1)	**Dr. N. N. Jani** Former Director, S K Patel Inst. Of Mgmt. and Computer Studies, Gandhinagar.
	11:15 to 11:30	Tea Break	
	11:30 to 13:00	Data Science for Market Intelligence (Session -2)	**Dr. N. N. Jani** Former Director, S K Patel Inst. Of Mgmt. and Computer Studies, Gandhinagar.
	13.00 to 14:00	Lunch	
	14:00 to 15:30	ICT for Smart Agro Block Chain (Session -1)	**Mr. Madhukant Patel** Chief Technical Officer TEKSUN Cultivating Technology, Ahmedabad
	15:30 to 15:45	Tea Break	
	15:45 to 17:15	ICT for Smart Agro Block Chain (Session -2)	**Mr. Madhukant Patel** Chief Technical Officer TEKSUN Cultivating Technology, Ahmedabad
	19:00 to 20:00	Dinner	
02-02-2020 Sunday	09:00 to 09:45	Breakfast	
	09:45 to 11:15	Data Mining and Machine Learning in Agriculture (Session -1)	**Dr. Bhagirath Prajapati** Associate Professor, Dept. of Computer Engineering, ADIT, V.V.Nagar, Anand.
	11:15 to 11:30	Tea Break	
	11:30 to 13:00	Data Mining and Machine Learning in Agriculture (Session -2)	**Dr. Bhagirath Prajapati** Associate Professor, Dept. of Computer Engineering, ADIT, V.V.Nagar, Anand.
	13:00 to 14:00	Lunch	
	14:00 to 17:00	Visit to Meteorology Department & University IT Center, AAU, Anand	
	17:00 to 17:30	Valedictory session and certificate distribution	

Organizing Committee

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

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 of Information Technology (I/C), AAU

Joint Organizing Secretary
Ms. Rucha Dave, Assistant Professor, Physics, BACA, AAU

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Dr. Snehal Mishra, Assistant Professor, IABMI, AAU

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