

# Two Day Webinar on Satellite Farming

**Date :** 09<sup>th</sup> & 10<sup>th</sup> May, 2022



**Organized by**  
Centre for Agricultural Market Intelligence under NAHEP – CAAST  
International Agri-Business Management Institute  
Anand Agricultural University, Anand

**In Collaboration with**  
College of Agricultural Information Technology, AAU - Anand



## Patrons



**Dr. K. B. Kathiria**  
Vice Chancellor  
Anand Agricultural University  
Anand



**Dr. R. C. Agrawal**  
DDG (Education)  
National Director-NAHEP  
ICAR, New Delhi

## Chief Guest & Keynote Speakers



**Dr. K. V. Kale**  
Vice Chancellor  
Dr. Babasaheb Ambedkar  
Technological University  
Lonere, Maharashtra



**Dr. P. M. Udani**  
Director General, CVM University  
Former Vice Chancellor  
Vivekananda Global University  
Former Scientist - ISRO



**Dr. Prabhat Kumar**  
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**Dr. M. K. Jhala**  
Director of Research &  
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AAU, Anand

## Advisors

## Eminent Speakers



**Dr. Ratnadeep Deshmukh**  
Professor  
Dept. of Computer Science & IT  
Dr. Babasaheb Ambedkar  
Marathwada University, Aurangabad



**Dr. Sandeep Gaikwad**  
Assistant Professor  
CMPICA, CHARUSAT  
Changa, Anand



**Dr. Amol Vibhute**  
Assistant Professor  
Symbiosis Institute of Computer Studies  
and Research (SICSR), Pune



**Mr. Krunal Suthar**  
Assistant Professor  
Insti. of Science & Technology  
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Dy. Registrar, MGM University  
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Department of IT  
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## Conveners



**Dr. R. S. Pundir**  
Principal & Dean (IABMI)  
PI, NAHEP-CAAST  
AAU, Anand



**Dr. D. R. Kathiriya**  
Director (IT), Principal & Dean (AIT)  
Core Co - PI, NAHEP-CAAST  
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## Organizing Secretary



**Dr. C. R. Dudhagara**  
Assistant Professor & Head  
Co-PI, NAHEP - CAAST, AAU, Anand

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**Dr. D. K. Parmar**  
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**Dr. Y. A. Lad**, CC-PI, NAHEP - CAAST, AAU, Anand  
**Ms. Rucha Dave**, Co-PI, NAHEP - CAAST, AAU, Anand  
**Dr. Prity Kumari**, Co-PI, NAHEP - CAAST, AAU, Anand  
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## Programme Coordinators

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**Ms. Shraddha Shah**, PA, NAHEP - CAAST, AAU, Anand



## Background:

Basically, Satellite Farming is a management concept empowered by inception of GPS (Global Positioning System) and GNSS (Global Navigation Satellite System) era. It operates based on principle of observing, computing and responding to inter field as well as intra field crops variability. Satellite farming is an information and technology-based agriculture that focuses on the principles and applications of site-specific crop management, as well as providing information on rapidly evolving agricultural technologies such as precision farming, which is an agricultural management system that employs global navigation satellite systems, geographic information systems, remote sensing, and data management systems to optimize the use of nutrients, water, seed, pesticides, and energy in heterogeneous field situations. The Satellite applications catapult conducts research on a regular basis to develop technology roadmaps that will aid in the understanding of future technological innovations in the satellite industry.

## About Centre for Agricultural Market Intelligence, NAHEP- CAAST:

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- Ahmedabad, Institute of Rural Management (IRMA), Indian Space Research Organization (ISRO), Junagadh Agricultural University, National Cooperative Dairy Federation of India (NCDFI) apart from foreign universities namely Australia's Western Sydney University, and The Papua New Guinea University of Technology are associated with the project.

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 College of AIT, AAU - Anand

College of Agricultural Information Technology (CAIT) was established in the year 2009 under the aegis of AAU, which the first college in the country dedicated to offer the courses in the field of Agricultural Information Technology. At present, the CAIT offers 4-year residential undergraduate degree program namely Bachelor of Technology in Agricultural Information Technology (B.Tech. — AIT). The CAIT aims to cater the upcoming demands of the Agrarian Economy by generation of a young workforce skilled with knowhow of future ready Information and Communication Technology and imparting the same in Agricultural sector. The college has trained teaching faculties with a balanced blend of well-experienced seniors and energetic youth who are focused towards quality and innovative Teaching and Research. The CAIT building is surrounded by the lush green natural environment with enough resources such as well-equipped Air-Conditioned lecture halls with Audio Visual facility, Computer Labs, CCTV Surveillance, Scientific Equipment's, Wi-Fi Internet Access, Library, NCC/NSS, sports, project and placement cell which provides the quality education and disciplined environment to the students. The curriculum of B. Tech. (AIT) is a blend of Agricultural Science and Information and Communication Technology (ICT) to harvest the potential of the either sectors. We are looking forward to introduce innovative practices Df automation and information mitigation by means of ICT in the scarcely charted agriculture and allied sectors to bridge the gap between the skills of the technocrat and the farmer.



## Objectives:

The webinar is intended to provide an overview of the role of satellite technology, remote sensing and geographical information system, etc. specially for agriculture domain by inviting the experts from academia which will encourage and make aware the participants about the usage of this technology for agriculture domain.

## Eligibility:

Interested candidates preferably; Masters & Doctoral students and faculties of concerned and allied disciplines are requested to apply through online registration process.

## Registration:

No fee is to be paid for registration.

E-certificates will be provided to the registered participants.



**Registration link:** <https://forms.gle/9LprVoVAcundjpDu8>

## :: Schedule ::

Time	Topic	Expert	Coordinator
<b>09-05-2022</b>			
09:30-10:15 hrs.	Inaugural Session		Dr. R. S. Pundir Dr. D. R. Kathiriya
Keynote Address I 10:15-11:15 hrs.	Satellite Farming	Dr. K. V. Kale	Dr. C. R. Dudhagara
Keynote Address II 11:30-12:30 hrs.	Basics of Remote Sensing and GIS for Agriculture	Dr. P. M. Udani	Dr. C. R. Dudhagara
Technical Session I 14:00-15:30 hrs.	Hyperspectral Remote Sensing for Agriculture	Dr. Ratnadeep Deshmukh	Dr. D. K. Parmar
Technical Session II 15:30-17:00 hrs.	Drought Monitoring and Analysis using Satellite Remote Sensing	Dr. Sandeep Gaikwad	Ms. Rucha Dave
<b>10-05-2022</b>			
Technical Session III 09:30-11:00 hrs.	Remote Sensing for Soil Analysis and Mapping	Dr. Amol D. Vibhute	Dr. Prity Kumari
Technical Session IV 11:00-12:30 hrs.	Agriculture Mapping and Analysis for Long Term Evolution	Mr. Krunal Suthar	Dr. D. K. Parmar
Technical Session V 14:00-15:30 hrs.	Crop Analysis using Remote Sensing	Dr. Parminder Kaur	Dr. C. R. Dudhagara
15:30-16:30 hrs.	Plenary Session		

## Contact Details:

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