



Five days Online Training Program on

Smart Farming: Application of AI, Robotics, IoT & Cloud Computing

28th February to 04th March, 2022

Patrons

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

Dr. R. C. Agarwal
DDG (Education)
National Director (NAHEP)
ICAR, New Delhi

Chief Guest & Key note Speaker

Dr. S. M. Nalawade
Professor & Head
Dept. of Fram Machinery & Power
MPKV, Rahuri

Programme Advisors

Dr. Prabhat Kumar
National Coordinator
NAHEP-CAAST
ICAR, New Delhi

Dr. M. K. Jhala
Director of Research
& Dean PG Studies
AAU, Anand

Convener

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

Co-conveners

Dr. D. R. Kathiriya
Unit Head & Dean
College of Agricultural
Information Technology
AAU, Anand

Dr. N. I. Shah
Principal & Dean
College of Horticulture
AAU, Anand

Organizing Secretary

Dr. Prity Kumari
Assistant Professor & Head
College of Horticulture
AAU, Anand

Joint Organizing Secretary

Dr. Y.A. Lad
Associate Professor &
CCPI, NAHEP-CAAST
IABMI, AAU

Registration link: <https://forms.gle/aUr4cqswDCh4vgf69>

Organized by

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

In Collaboration with

College of Horticulture, Anand Agricultural University, Anand &
College of Agricultural Information Technology, AAU, Anand

Background:

Anand Agricultural University has been awarded an ICAR- World bank funded project to establish Centre for Agricultural Market Intelligence. The project is comprehensive in nature and encompasses all important issues including demand-supply predictions and price forecasting apart from using satellite imageries for model building, farmer producer organizations for realizing better prices, continuous studying and monitoring of e-NAM linked APMCs, and private sector involvements with focus on PPP mode. Rigorous analysis of trade related aspects and prompt dissemination of the distilled information to the stakeholders is a vital segment of the projects to understand the linkages between national and international markets, export potential and changing policy environment.

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 training

Smart farming is use of new and advanced technologies, integrated into one system, to enable farmers and other stakeholders within the agriculture value chain to improve food production. The training aims to enlighten the participants in the areas of Robotics, Artificial Intelligence, artificial Sensors, Machine Learning, Expert system, Iot, Embedded system and Advanced Digital Technologies application in smart farming for better future. Each one of these technologies conveys something valuable to farming from data collection, through to management and processing, as well as guidance and direction. This unified system offers new visions that enhance the ability to make decisions and implement them.

Objectives of the training:

- To acquaint the farming system about the development of smart farming technologies
- To discuss developments and various aspects of Robotics AI & IoT influencing the farming culture
- To develop the workable models of Smart farming system.

: Programme Schedule :

Sr.No	Time	Topic	Resource Person
Day-1		28th February 2022	
1	10:00 to 11.30	Inaugural function and Address by Keynote Speaker	Dr. S. M. Nalawade Prof. & Head, Dept. of Fram Machinery & Power, MPKV, Rahuri
2	11.30 to 13.00	IoT Based smart monitoring system	Dr. S. D.Gorantiwar Head, Dept of Agril. Engg., MPKV, Rahuri
3	14:00 to 15:30	Internet of Things for Automation in farming	Dr. Prabhat Kumar Associate Professor, Dept. of Computer Science & Engineering, NIT, Patna
Day-2		01st March, 2022	
1	10:00 to 11.30	Role of Cloud-Based IoT Technology in Precision Horticulture	Mr. Kishan IoT domain Expert Cilans system Pvt. Ltd., Ahmedabad
2	11.30 to 13.00	Fundamentals, developments & challenges of smart system in Weed management	Dr. Sharad Chandra Lohokare Founder & Director JyoSH AI Solution, Pune, MH, India
3	14:00 to 15:30	Application of Sensors in smart farming	Dr. Prabhat Kumar Associate Professor, Dept. of Computer Science & Engineering, NIT, Patna
Day-3		2nd March, 2022	
1	10:00 to 11.30	Foundation of Artificial Intelligence	Mr. Nikhil Shah Founder & Director Cilans system Pvt. Ltd., Ahmedabad
2	11.30 to 13.00	Use Cases of AI with hands on demo	Mr. Nikhil Shah Founder & Director Cilans system Pvt. Ltd., Ahmedabad
3	14:00 to 15:30	Embedded system and IoT devices for smart farming	Ugochukwu Godson Ikpeoha Founder UGOvations Limited, Nigeria
Day-4		03rd March, 2022	
1	10:00 to 11.30	Machine learning & Sensor for Smart farming	Dr. Ashutosh Mishra Asst. Prof. Dept of Computer Science Engg. Thapar Inst. of Engg & Technology, Patiala
2	11.30 to 13.00	Expert system & its application in Precision farming	Dr. R. B. Mishra Professor, Dept. of Computer Science & Engineering NIT, Patna
3	14:00 to 15:30	Robotics & its application in Precision Farming	Dr. R. B. Mishra Professor, Dept. of Computer Science & Engineering, NIT, Patna
Day-5		4th March, 2022	
1	10:00 to 11.30	Foundation of cloud	Mr. Dhruv Rana Sr. Software Engineer – Cloud Computing Cilans system Pvt. Ltd., Ahmedabad
2	11.30 to 13.00	Hand on with AWS : Basic Cloud operations	Mr. Dhruv Rana Sr. Software Engineer – Cloud Computing Cilans system Pvt. Ltd., Ahmedabad
3	14:00 to 15:30	Plenary Session	

Organizing Committee

Patrons

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Organizing Committee Members

Dr. D. J. Parmar, Associate Professor, BACA, AAU, Anand

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

Ms. Vishita khanna, Assistant Professor, IABMI, AAU, Anand

Dr. M. R. Prajapati, Assistant Professor, IABMI, AAU, Anand

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

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

Programme Coordinators

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Mr. Jigar Patel, SRF, NAHEP - CAAST, AAU, Anand

Ms. Koshaben Mehta, SRF, NAHEP - CAAST

Mr. Apurva Bhoi, PA, NAHEP - CAAST, AAU, Anand

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

Mr. Smit Bhavsar, PA, NAHEP - CAAST, AAU, Anand

Mr. Harshit N. PG student (Dept. of Statistics, BACA, AAU, Anand)