



NHEP



THE WORLD BANK



**Centre for Advanced Agricultural Science and Technology**  
**Digital Farming Solutions for Enhancing Productivity by**  
**Robots, Drones and AGVs (DFSRDA)**  
*in Collaboration with Parbhani Chapter of ISA & ISGPB Parbhani Chapter*  
**Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani**  
**International Seminar (Online)**  
*on*  
**"Digital Technologies for Smart Agriculture: A Futuristic Plan"**

**10-13 August, 2020**



## About University

Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani is one of the four Agricultural universities in the State of Maharashtra. It was established on 18<sup>th</sup> May, 1972 to fulfill the regional aspirations of agrarian growth. It is entrusted with the responsibilities to provide education in agriculture and allied fields, undertake research and facilitate technology transfer in Marathwada region of the Maharashtra State. College of Agriculture, Parbhani is one of the premier institute, established in 1956. The Institute is putting its major efforts to keep enriching the stream of scientific knowledge, technology generation and innovative research for food security.

College of Agriculture, Parbhani was affiliated to PDKV, Akola till 1972 when MKV, Parbhani was established and this college become the first constituent college of the University. The college was established to develop agricultural technologies, educate, train and generate agricultural experts and to cater the needs of the farming community. It is a matter of great pride and privilege for the people of Marathwada and Parbhani, College celebrated its Golden Jubilee in the year 2006.

## About Project

Centre of excellence: for Digital Farming solutions for Enhancing Productivity by Robots, Drones and AGVs (DFSRDA) under Center for Advanced Agricultural Science and Technology (CAAST) is being implemented in Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra under World Bank sponsored National Agricultural Higher Education Project (NAHEP) of Indian Council of Agricultural Research (ICAR), New Delhi, Government of India, Since 2019. The main objective of this center is to train PG/PhD students and faculties about advances in science and technology. The project is proposed on 50:50 cost sharing basis between the World Bank and the Government of India, implemented at VNMKV, Parbhani. Overall, the project aims to establish an advanced basic engineering hardware and software setup such as Mechatronics, CAD/CAM/CAE, 3-D Printers and Instrumentation Laboratories for Agribots, Agri-drones and Agri-AGVs, so that a holistic model can be developed to raise the standard of current agricultural education system that provides more jobs which is entrepreneurship oriented and on par with the global agriculture education standards.

Centre of excellence: for Digital Farming solutions for Enhancing Productivity by Robots, Drones and AGVs (DFSRDA), VNMKV, Parbhani in collaboration with Parbhani Chapter of ISA & ISGGPB is organizing a “**International Online Seminar On Digital Technologies for Smart Agriculture: A Futuristic Plan**” from 10 to 13 August, 2020.

## Background

Digital Farming will have major impact on agriculture and food security in Future. In many parts of the country, the greatest challenges for the dry areas is crop productivity. The objective

of this seminar is to share research results, identify the future priorities and make an action plan for potential prospects of using digital technologies for smart Agriculture.

For this objective, it is essential to proceed systematically with integrated approaches to utilize and harness the benefits of digital technologies.

## Themes of the Seminar

- Internet of things (IOT) and Integrated farming
- Online natural resource management.
- Digital tools and equipment's in plant protection.
- Digital Agricultural Marketing.
- Advanced post harvesting and food processing method.
- Digital tools in plant genetics resource management.
- Digital farming tools and technologies.

## Target Audience

National & International PG / Ph.D. Students, Faculties, Scientist and Staff of Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani with other Agricultural universities and Staff of Government Departments are eligible to register and are requested to take advantage of the online training during the COVID-1 lockdown period.

## Registration

The seminar will be available to 1000 registered eligible candidates (250 candidates of VNMKV and 750 candidates of other universities/ Institutions) and preference will be given to relevant disciplines.

The link for the online registration is,

<https://qrqo.page.link/NZRYw>

or use QR code provided here.












**Registration is open till 07<sup>th</sup> August 2020 (24.00 Hrs.)**

**There is No Registration Fees for Seminar**

## About the Selection

- 1) The **Whatsapp Group** of the selected candidates will be formed at least one day before the start of the seminar and the communications regarding the seminar will be posted in the group.
- 2) Alternatively Candidates can keep accessing the CAAST-VNMKV website (<https://nahep.vnmkv.org.in>) regarding the selection, preferable on the day before the start of the seminar.
- 3) Lead lectures through online platform will be conducted along with online interaction. The link, ID and password for joining the online session will be communicated through whatsapp group of the selected candidates 30 minutes before the start of the session.
- 4) Certificates will be issued to those participants only who will complete all online session and assignments/Online questionnaires.

**"Digital Technologies for Smart Agriculture: A Futuristic Plan"****Expert Schedule**

Date	Time	Speaker Name	Subject	Speakers
10.08.2020	09:00 to 10.00 India US Time:11:30 PM to 12:30 AM (09.08.20)	<b>Prof. Dr. PARAG CHITNIS</b> Director, USDA, NIFA, USA	<b>Keynotes Speech on “ Global Scenario for Smart Agriculture”</b>	
	15.00 to 16.00 India Lebanon Time:12:30 PM to 01:30 PM (10.08.20)	<b>Prof. Dr. MOSTAFA AL KURDI</b> Director of Tyre Campus, American University of Technology, Lebanon	<b>Smart Farming and Precision Agriculture by using UAV and UGV Robots</b>	
11.08.2020	09.00 to 10.00 India US Time: 10:30 PM to 11:30 PM (10.08.20)	<b>Prof. Dr. PAVEL NAVITSKI</b> Associate Prof. Engineering Department Oral Roberts University Tulsa, Oklahoma, USA	<b>Digital Technologies for Plant Protection in Precision Farming</b>	
	15.00 to 16.00 India Belarus Time:12:30 PM to 01:30 PM (11.08.20)	<b>Prof. Dr. MIKHAIL TATUR</b> Byelorussian State University of Informatics and Radioelectronics, Minsk, Belarus	<b>SMART- Agriculture Educational Process for Specialists Belarus to India</b>	
12.08.2020	10:00 to 11.00 India Argentina Time: 01:30 PM to 02:30 PM (12.08.20)	<b>Prof. JESZAE CRISTOPHER</b> Agricultural Science Faculty, National University of Rosario, Argentina.	<b>Artificial Intelligence: Genetics Algorithms Applied to Optimization of Mechanization Systems</b>	
	15.00 to 16.00 India US Time: 2:30 AM to 03:30 AM (12.08.20)	<b>Dr. LAV. R. KHOT</b> Agricultural Automation Engineering, Department of Biological Systems Engineering, Washington State University, WSU, USA.	<b>Precision Agriculture and Automation Technologies for Specialty Crop Production Management</b>	
13.08.2020	10:00 to 11.00 India Algeria Time: 11:30 AM to 12:30 PM (13.08.20)	<b>Prof. Dr. LABAD RYMA</b> Department of Agronomy, Ferhat Abbas University –Sétif- Algeria.	<b>Advanced Automated Herbicide Applicator Machineries in Algeria</b>	
	15.00 to 16.00 India	<b>Dr. V. PRAVIN RAO</b> Hon. Vice Chancellor, PJTSAU, Hyderabad, India President, ISA, New Delhi	<b>Keynote Speech 1</b>	
	16.00 to 17.00 India	<b>Dr. P. K. GHOSH</b> National Director and Hon. Vice Chancellor, NIBSM, Raipur, Chhattisgarh, India	<b>Keynote Speech 2</b>	



## Patron



**Dr. ASHOK DHAWAN**  
Vice-Chancellor  
VNMKV, Parbhani



**Dr. R. C. AGRAWAL**  
National Director  
NAHEP, ICAR, Delhi

## Chief Guest



**Dr. PARAG CHITNIS**  
Director USDA, NIFA, USA



**Dr. V. PRAVIN RAO**  
Hon. Vice Chancellor, PJTSAU,  
Rajendra Nagar, Hyderabad, India



**Prof. Dr. PAVEL NAVITSKI**  
Engineering Department  
Oral Roberts University Tulsa,  
Oklahoma, USA



**Prof. JESZAEEL CRISTOPHER**  
Agricultural Science Faculty,  
National University of Rosario, Argentina.

## Convenor & Organizing secretary



**Dr. PRABHATH KUMAR**  
National Coordinator (CAAST)  
NAHEP, ICAR, Delhi



**Dr. D.N. GOKHALE**  
President PCISA  
DI & Dean F/A  
VNMKV, Parbhani



**Dr. D.B. DEOSARKAR**  
President ISGPBPC  
Director of Extension  
VNMKV, Parbhani



**Dr. GOPAL U. SHINDE**  
Principal Investigator  
NAHEP, VNMKV, Parbhani

## Co-Organizing secretary

**Dr. J. E. JAHAGIRDAR**  
Head Dept. of Agricultural Botany  
VNMKV, Parbhani

**Dr. B. V. ASEWAR**  
Head Dept. of Agronomy  
VNMKV, Parbhani

**Dr. H.V. KALPANDE**  
Asso. Prof. Dept. of Agricultural Botany  
VNMKV, Parbhani

**Dr. R. V. CHAVAN**  
Assistant Professor  
Dept. of Agril. Economics  
COA, VNMKV, Parbhani

**Dr. MIRZA I. A. B.**  
Assistant Professor  
Dept. of Agronomy  
COA, VNMKV, Parbhani

**Dr. S. V. KALYANKAR**  
Assistant Professor  
Dept. of Agril. Botany  
COA, VNMKV, Parbhani

**Dr. J. D. DESHMUKH**  
Assistant Professor  
Dept. of Agril. Botany  
COA, VNMKV, Parbhani

**P. K. WAGHMARE**  
Assistant Professor  
Dept. of Agronomy  
COA, VNMKV, Parbhani

## Training Coordinators

**Er. KHEMCHAND M. KAPGATE**  
RA, NAHEP, Parbhani

**Dr. AVINASH S. KAKADE**  
SRF(FPA), NAHEP, Parbhani

**Dr. RASHMI BANGALE**  
SRF(SPM), NAHEP, Parbhani

**RAHEEM KHAN NIZAM KHAN**  
JRF(SSPN), NAHEP, Parbhani

**Er. TANZIM KHAN LAL KHAN**  
Je (Mech), NAHEP, Parbhani

**Er. SHAILESH SHINDE**  
Je (CSE), NAHEP, Parbhani