Centre of Excellence for
Digital Farming Solutions for Enhancing Productivity by
Robots, Drones and AGV's (DFSRDA)

One Week Online International Training
on

Present and Futuristic Trends in Agricultural Mechanization

18 - 23 June 2020

Vasantrao Naik Marathwada Krishi Vidyapeeth
Parbhani - 431402 (MS)

About

Centre of excellence for Digital Farming solutions for Enhancing Productivity by Robots, Drones and AGV's (DFSRDA), VNMKV, Parbhani is organizing a **"One week International online training on "Present and Futuristic Trends in Agricultural Machanization"** from June 18 to 23, 2020. Centre of excellence for Digital Farming solutions for Enhancing Productivity by Robots, Drones and AGV's (DFSRDA) Under Centre 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 July 2019.

Background

The covid-19 situation may create scarcity in farm inputs and farm labourers availability causing lower crop yield. The mechanized, precision Agriculture and advanced automated system devices will be the supposing pillars to achieve the desired crop production in these adverse climatic condition and current pandemic environment. Precision farming is an approach where inputs are utilized in precise amounts to get increased average yields, compared to traditional cultivation techniques. Farm mechanization and crop productivity have direct relation, as the use of agriculture machinery, such as tractors and tractor drawn farm machineries, will increase the crop productivity by 20% and reduce the cost of cultivation by 25%. Increasing the power supply to agriculture means that more tasks can be completed at the right time and greater areas can be farmed to produce greater quantities of crops while conserving natural resources. Efficient machinery helps in increasing production and productivity, besides enabling the farmers to raise a second crop or multi crop making the Indian agriculture attractive and a way of life by becoming commercial instead of subsistence. Future agriculture will use sophisticated technologies such as robots, drones and various sensors, aerial images and GPS technology. These advanced technologies are being designed and developed at various research institutions and universities in India and overseas. This training is being organized for researchers to understand advance technologies and to apply skills for designing and manufacturing society demand driven agricultural machinery.

Objectives

- To understand the status and scope of farm mechanization in India and overseas countries.
- To encourage post graduates and Doctoral researchers globally competitive in the research discipline of precision agriculture.
- To enhance awareness on advanced farm machineries among faculties and extension functionaries for conducting high end capacity research and effective dissemination of technologies.

Aim

The online training aims to discuss leading edge technologies and recent scientific developments related to precision agriculture and modern farming. The training will provide a forum to academic researchers and industries to discuss and execute research projects on farm mechanization keeping in view of doubling farmers income through developing smart and precise agricultural machineries.

Audience

PG / Ph.D. Students, Faculties, Scientist 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-19 lock down period.

Registration

The training will be available to 400 registered eligible candidates (200 candidates of VNMKV and 200 candidates of other universities/ Institutions) and preference will be given to relavent disciplines.

The link for the online registration is

https://forms.gle/1Uom2iQSZNQBgwvE6

or use QR code provided here.

Registration is open till 17 June 2020 (5.00 PM).

There is No registration fees for training

Selection

- The What's App group of the selected candidates will be formed at least one day before the start of the training programme and all the communications regarding the training programme will be posted in the group.
- 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 training programme.
- Daily lectures through online platform will be conducted along with online discussions and tutorials. The link, ID and password for joining the online session will be communicated through What's App group of the selected candidates 30 minutes before the start of the session.
- Certificates will be issued to those participants only who will complete all online sessions and assignments/tutorials.

Patrons

Dr. A.S Dhawan
Hon. Vice - Chancellor
VNMKV, Parbhani

Dr. R. C. Agrawal
National Director
NAHEP, New Delhi

Chief Guest of Inaugural Function

Dr. V.M. Mayande
Former Vice-Chancellor,
Dr. PDKV, Akola

Guests of Honour

Dr. V.K. Tewari
Director, IIT, Kharagpur

Dr. Indra Mani Mishra
President, ISAE, New Delhi

Chief Convenors

Dr. Prabhat Kumar
National Co-ordinator
NAHEP, New Delhi

Dr. D.N. Gokhale
DI & Dean (F/A)
VNMKV, Parbhani

Convenors

Dr. G.U. Shinde
Principal Investigator
NAHEP-CAAST-DFSRDA, VNMKV, Parbhani

Er. S N Pawar
Co-PI (SPM)
NAHEP-CAAST-DFSRDA, VNMKV, Parbhani

Co-convenor

Er. D. D. Tekale
Associate Prof. (FMPE) &
Core Team Member
NAHEP- CAAST-VNMKV, Parbhani

Organizing Secretary

Er. D. V. Patil
Asst. Prof. (FMPE) &
CoreTeam Member,
NAHEP-CAAST-VNMKV, Parbhani

Training Co-ordinators

Er. Khemchand Kapgate
RA, NAHEP, Parbhani

Dr. Rashmi Bangale
SRF (SPM), NAHEP, Parbhani

Dr. Avinash Kakade
SRF (FPA), NAHEP, Parbhani

Er. Shivanand Shivpuje
JRF, NAHEP, Parbhani

Er. Gopal Raner
JE, NAHEP, Parbhani

CONTACT DETAILS

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Present and Futuristic Trends in Agricultural Mechanization

18 - 23 June 2020

EXPERTS SCHEDULE

Sr. No.	Date	Time	Resource Person	Topic	Photo
1	18/06/2020	10.00 AM to 11.00 AM	**Dr. I. Srinivas** Principal Scientist, ICAR-CRIDA, Hyderabad	Appropriate mechanization in small farm holdings with a special focus on rainfed agriculture	
2	18/06/2020	03.00 PM to 04.00 PM	**Dr. Baldev Dogra** Principal Scientist, PAU , Ludhiana	Advancement in threshing and harvesting equipment	
3	19/06/2020	10.00 AM to 11.00 AM	**Dr. Manoj Karkee** Associate Professor, WSU, Pullman, USA	Artificial Intelligence and Robotics in Speciality Crops	
4	19/06/2020	3.00 PM to 4.00 PM	**Dr. Manjeet Singh** Principal Scientist Cum Head, PAU , Ludhiana	COVID-19 pandemic push more Mechanization and Digitization of Farms	
5	20/06/2020	10.00 AM to 11.00 AM	**Dr. Mahesh Narang** Senior Scientist, PAU Ludhiana	Mechanized crop residue management technologies	
6	20/06/2020	11.00 AM to 12.00 PM	**Dr. Satish Lande** Scientist (SS), ICAR-IARI, New Delhi	Technologies for In-situ and Ex-situ management of agri residues	
7	20/06/2020	3.00 PM to 4.00 PM	**Dr. T. P. Singh** Principal Scientist Cum Head, GBPUAT, Pantnagar	Hill Mechanization in India: Challenges and Opportunities	
8	20/06/2020	4.00 PM to 5.00 PM	**Dr. Sukhbir Singh** Senior Scientist, ICAR-IISR, Lucknow	Sugarcane Mechanization in India: Challenges and Opportunities	

Sr. No.	Date	Time	Resource Person	Topic	Photo
21/06/2020 – Sunday					
9	22/06/2020	10.00 AM to 11.00 AM	**Dr. B. B. Gaikwad** Scientist (SS), ICAR-NIASM, Baramati	Gearing up for the New Normal Agriculture Automation Necessity	
10	22/06/2020	3.00 PM to 4.00 PM	**Dr. Peeyush Soni** Associate Professor IIT, Kharagpur	Camera applications in Precision Agriculture	
11	23/06/2020	10.00 AM to 11.00 AM	**Dr. Sindhuja Sankaran** Associate Professor, WSU, Pullman, USA	Sensor applications in phenomics for impact in crop improvement programs	
12	23/06/2020	11.00 AM to 12.00 PM	**Dr. B M Nandede** Scientist (SS), ICAR-CIAE, Bhopal	Status and Scope of vegetable transplanter in developing countries	
13	23/06/2020	03.00 PM to 04.00 PM	**Dr. Parag Badgujar** Deputy Manager Tirth Agro Prv. Ltd., Rajkot	Industry talk on farm equipment and precision agriculture	
14	**23/06/2020**	**4.00 PM to 5.30 PM**	**Dr. V. M. Mayande Former Vice Chancellor Dr. PDKV, AKOLA**	**Valedictory Speech and Valedictory Function**	

Convenor

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Co-PI (SPM)
NAHEP-CAAST-DFSRDA
VNMKV, Parbhani

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SRF (FPA), NAHEP, Parbhani

Er. Shailesh Shinde
JE, NAHEP, Parbhani