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FACULTY INFORMATION BROCHURE



National Agricultural Higher Education Project

CENTRE OF EXCELLANCE : DIGITAL FARMING SOLUTIONS FOR ENHANCING
PRODUCTIVITY BY ROBOTS, DRONES AND AGVS

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INTRODUCTION

National Agricultural Higher Education Project (NAHEP)

NAHEP is designed to strengthen the national agricultural education system in India with overall objective to provide more relevant and high quality education to agricultural university students. This programme has been promoting efficiency and competitiveness through changes in working mechanism of agricultural universities, raising the teaching and research standards through improved research and teaching infrastructure and enhanced faculty competency.

Centre for Advanced Agricultural Science and Technology (CAAST)

These centers are multidisciplinary and interdisciplinary in nature for teaching, research and extension on critical and emerging issues of agriculture. The key provision under CAAST include research and teaching equipment, Faculty and Scientist Development Fellowship, Post-graduation student Scholarships and cost associated with twining arrangements with similar centers both nationally and internationally. The emphasis is on participation of industries in these centers for skill development for enhanced employer ability and entrepreneurship.

Vasantao Naik Marathwada Krishi Vidyapeeth (VNMKV)

VNMKV Parbhani is one of the four Agricultural Universities in the State of Maharashtra. It was established on May 18, 1972 to fulfil the regional aspirations of agrarian growth. It is entrusted with the responsibilities to provide education to students in agriculture and allied fields, undertake research and facilitate technology transfer in Marathwada region of Maharashtra. The University is well known for its innovative research in sorghum, pigeon pea, soybean, sunflower, safflower, cotton which are the strength of the University. Highly accepted and commercial GM BT cotton variety i.e. NHH-44 and virus resistant variety (Parbhani Kranti) of ladies finger are developed by this University.

About NAHEP-CAAST, VNMKV, Parbhani

The NAHEP-CAAST DFSRDA-VNMKV Parbhani centre is integrated by three interdisciplinary research divisions such as **Agri-bots, Agri-Drones and Agri-AGV's** based on four portfolios:

- Climate-based Digital Knowledge Support Centre. (CDKS)
- Seed/Seedling Processing and Nursery Automation Centre. (SSPN)
- Smart Portable Machinery Centre. (SPM)
- Food Processing Automation Centre. (FPA)






Vision - To emerge as a learning environment and capacity building center where PG/Ph.D students, faculties of VNMKV collaborate for advancement in academic, professional skills development and empowerment.



Mission - To provide skill development courses, research projects, case studies, training programs for the stake holders through comprehensive courses, training domains.

Objective –


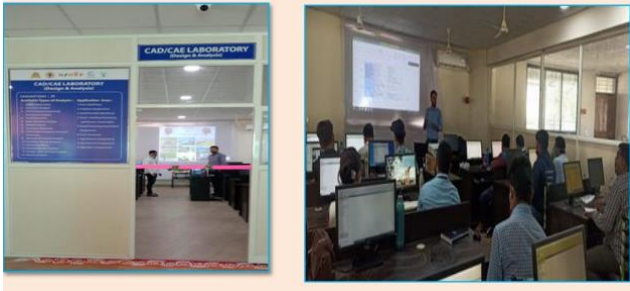



1. Establishing an advanced basic engineering hardware and software setup such as Mechatronics, CAD/CAM/CAE, 3-D Printers and Instrumentation Laboratories for Agri-bots, Agri-drones and Agri-AGVs.
2. Strengthening the present PG and PhD courses in all disciplines by offering three elective course work such as Robotics, Drones or AGVs and also to Certificate courses
3. Developing case studies / Projects of Agribots, Agri-drones, Agri-AGVs applications in agriculture.
4. Enhancing the skills of faculty and PG student of VNMKV by academic and thematic research.
5. Establishing University and Industry interface for students and faculty at national and international level.





Research Facilities available at NAHEP CAAST VNMKV, Parbhani:

Sr No	Equipment, plant & Machinery	Photo	Application
1	A robotic manipulator		It is used for automatic operations such as cotton picking
2	Grafting Robot	 	It is used to graft two species of same family plants
3	Mobile platforms for Agribots and AGVs	 Latitude: 19.24796 Longitude: 76.794336 Elevation: 417.5413 m Accuracy: 7.4 m Time: 03-13-2021 12:06 Note: Mobile Platform for Agri-bots and Agri-AGVs (Scissor Lift) at NAHEP-VNMKV, Centre Parbhani Powered by NoteCam	The Hydraulic Scissor lifts are work platforms used to safely move workers vertically and to different locations in a variety of industries including construction, retail, entertainment, manufacturing and various agricultural field operations.
4	Gator-type agricultural utility vehicles		UTVs are ideal for streamlining operations at plowing time Once your fields are ready, you can use a spreader

			attachment on your UTV to helps spread seeds
5	Trucks and trailers		<p>A farm truck is a vehicle designated for agricultural use, and may include anything from small pick-up trucks or even vehicles fashioned out of old parts, to class 8 eighteen-wheeler trucks.</p> <p>Some states in the United States have a special registration for farm trucks that includes restrictions such as distance the vehicle may travel from the farm.</p>
6	3 D scanner		<p>It is used to scan any object or any agricultural equipment model and after that once scanning is finished the actual product can be printed in 3 D Printer</p>

7	Stereo vision cameras		Robotic navigation and object recognition
8	Real-sense cameras		1.Robotic navigation and object recognition, 2.Useful for obstacle avoidance
9	Zed Cameras 2 sensors		Gather real-time synchronized inertial, elevation and magnetic field data along image and depth.
10	Various industrial grade CCD cameras		For Surveillance purpose in agricultural machineries
11	Spectroradiometer		helping us to better understand light quality and intensity, necessary for plant growth
12	Multi-spectral (3, 4 and 5 band) imaging systems	  <p>a) NIR Red Edge Green Red 41 mm 59 mm RGB</p> <p>b) Sunshine sensor (DLS) 47 mm 39.6 mm</p> <p>c) Parrot Sequoia Bands</p> <p>Response (%)</p> <p>Wavelength (nm)</p> <p>Green: 530-570 nm Red: 640-680 nm Red Edge: 730-740 nm NIR: 770-810 nm</p>	It is useful for Drone Image Capturing of Agriculture field & Mapping

13	Sensors		This is useful for measuring NPK, Soil moisture, soil PH
14	CAD/CAE Laboratory		For design and analysis of agricultural machines, equipments
15	Cold Storage		For storage of fruits, vegetables
16	UAV Technology Trainer Lab		For spraying and Mapping
17	Agri-AGVs Lab Training Workshops		Farm machinery workshop set up to create AGV for agricultural applications

18	Agri-bots Technology Lab-3 D Printer		It is used to create actual 3 D model
19	GIS and Drone Data processing Facility	 	1.20 Systems with Open Source QGIS Software for data analysis of Satellite data, meteorological data etc 2.PIX4D Software for Drone data processing
20	Refrigerated Van		The main function of the refrigerated truck is to keep the fresh food, the truck is dedicated to transport food, keep the internal health standards, and can play a role in inhibiting the growth of bacteria. Such as to transport of chilled food, seafood, vegetables and so can achieve better results.

Faculty Participation in NAHEP-CAAST, VNMKV, Parbhani

Faculty Participating in NAHEP Project through different activities such as trainings & Research work.:

National & International Trainings :

Sr. No.	National & International Events (training)	No. of participants	Duration
1	One day e-Training is organised by Er. D. V. Patil (Core Team member) on, "Aerial grasping Application for Agriculture Researchers- An Overview by UAV".	72	23/05/2020
2	One Week <u>Online training</u> on "Recent Trends in Academic Writing" organized by Dr. Santosh Kadam VNMKV Parbhani.	424	20/5/2020 to 24 /5/2020
3	One Week <u>Online training</u> organized by Dr. K.K. Dakhore Core Team member on "Recent Advances and Instrumentation in Agriculture Meteorology (CDKS Portfolio)"	457	26/5/2020 - 02/06/2020
4	One day Krushi Parisavad organized by Dr. Kapse sir on "Soybean Lagwad Technology Parisanvad With Agriculture Minister"	200	02/06/2020
5	One week International online training program is organized by Dr. Bharose Achyut on "Biotechnology: It's Application in Modern Agriculture"	480	04/06/2020 - 08 /06/2020
6	One-week <u>online Training</u> Programme organized by Dr. Vaidya P. H. on "Application of Remote Sensing & GIS In Digital Agriculture".	450	04/06/2020 to 08 /06/2020
7	One-week <u>online Training</u> Programme on "COVID 19 Pandemic: Impact and Strategies in Agriculture Education" was organized by Dr. Veena Bhalerao Core Team member.	401	09/06/2020 to 13/06/2020
8	Dr. B.V. Asewar HOD Agronomy organized one week <u>online training</u> program on "Climate resilient technology for Rainfed Agriculture".	452	11/06/2020 - 15/06/2020
9	Er. D. V. Patil Core Team member organized one week <u>online training</u> on "Present & Futuristic trends in Agriculture mechanization".	424	18/06/2020 to 23 /06/2020
10	One day <u>online-training</u> program on "Power of Digital manufacturing for new product development- 3D printing" organized by Dr. Vishal Ingale.	323	25/06/2020
11	Dr. G. S. Pawar Core Team member organized one week <u>online-training</u> on "Recent Digital tools in Abiotic Stress Management for crop modelling".	480	29 /06/2020- 3/07/2020
12	As a part of MoU joint activity done with IIT Khragpur. Organized a two week <u>online short term course</u> on "Application of Digital Technologies in Agriculture"	52	13/07/2020 to 24/07/2020
13	Inauguration of Joint activity of IIT Bombay with NAHEP-CAAST, VNMKV in which Three weeks online short term course to NAHEP-CAAST students and faculties on "Application of digital technologies for smart agriculture"	84	10/08/2020 to 28/08/2020

National & International Webinars

Sr. No.	National & International Events (Webinars)	No. of participants	Duration
1	One day webinar organized by Dr. Shyam Graud Co-PI (FPA) on “Enhancing research writing skills of students and scholars: Citations Management” (FPA Portfolio)	345	08/05/2020
2	One Week webinar on “Role of Technologies and Automation in Food Processing and Preservation” (FPA Portfolio) organized by Dr. Shyam Graud Co-PI (FPA),	365	14/5/ 2020 to 19/5/ 2020
3	One day <u>Krusha Parisavad</u> organized by Dr. Kapse sir on “Soybean Lagwad Technology Parisanvad With Agriculture Minister”	200	02/06/2020
4	Dr. Veena Bhalerao (Core Team member) organized webinar Series of one week on “Digital Agriculture Technologies for self-Reliance of farm woman”	740	6/7/2020 - 10/7/2020
5	State level Weekly Webinar Series organized by Dr. Megha jagtap & Dr. Dhiraj Kumar Kadam on a “सुदृढ पर्यावरणसाठी पीक संरक्षक कृषि रसायनाचा संतुलित वापर” .	100	25/07/2020 to Every Saturday till 03/10/2020
6	State level one week webinar series organized by Dr. Rajesh Kshirsagar (core Team Member) on “डिजिटल तंत्रज्ञानद्वारे कृषी प्रक्रिया उद्योग: उद्योजकांच्या यशोगाथा” .	780	27/07/2020 to 31/07/2020
7	One day webinar on “मक्यावरील लष्करी अळी जागरूकता व प्रशिक्षण कार्यक्रमाचे आयोजन”	120	05/08/2020
8	Inauguration of International Seminar (Online) on “Digital Technologies for smart agricultural: Futuristic plan”	400	10/08/2020 to 13/08/2020
9	Inauguration of Joint activity of IIT Bombay with NAHEP CAAST VNMKV in which Three weeks online short term course to NAHEP CAAST students and faculties on “Application of digital technologies for smart agriculture”	82	10/08/2020 to 28/08/2020
10	3D printing demonstration and webinar at NAHEP centre.	50	15/08/2020
11	One-Week Hands on Training on “GIS and Remote Sensing Applications in Agriculture” jointly organized by NAHEP VNMKV and IIT Bombay	45	20/01/2021- 25/01/2021
12	Three Days Online Training on “ Personality Development and Life Skills”	86	03/05/2021- 50/03/2021

NAHEP-CAAST, VNMKV, Parbhani
Adopting Online Teaching-Learning in 2020

Annexure 1: List of Respondent Faculty Members

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263	Syed Ismail Syed Ibrahim		HOD	DDO to DI & Dean F/A,VNMKV, Pbn	syedismail.ibrahim@gmail.com	9890931861
264	Jagdish Eknathbuwa Jahagirdar		HOD	DDO to DI & Dean F/A,VNMKV, Pbn	jagdishjahagirdar@gmail.com	9421594506
265	Sanjeev Dhondiba Bantewad		HOD	DDO to DI & Dean F/A,VNMKV, Pbn	sdbantewad@rediffmail.com	9421354439

Annexure 2: Proforma for NAHEP Participants



Ref No.: NAHEP/CAAST/VNMKV/ /2020

Date: / /2020

PROFORMA FOR NAHEP PARTICIPATION

(Please visit: <https://nahep.vnmkv.org.in/> before filling application form) Date: / /2020

1	Name of Applicant		PHOTO				
2	Designation						
3	Department						
4	Portfolio applied for	CDKS/SSPN/SPM/FPA					
5	Working Division	Agribots/Aggridrones/AgriAGV's					
6	Father's/Husband's Name						
7	Date of Birth	/ /					Gender: Male/Female:
8	Category (SC/ST/OBC/GEN)						
9	Age						
10	Mobile No.						
11	E-mail						
12	WhatsApp no.						
13	Office Address						
14	Permanent Address						
15. Academic Qualification							
Sr no.	Name of Degree	Specialization	Board/University	Year of Passing	CGPA/ %	Grade	
i	Post Doc						
ii	Ph.D.						
iii	M.Sc./M.Tech						
iv	B.Sc./B.Tech						
v	12 th or equivalent						
vi	Others if any						
vii	SET/NET/GATE Qualification						
viii	Software skills						
ix	Hardware skills						
a) Thesis Title							
i	Ph. D						
ii	M.Sc./M.Tech						
iii	Others if any Certificate						

16. Professional Experience				
Sr No.	Name and address of Employer	Designation	Nature of duties	Years
i				
ii				
iii				
iv				
v				
17. Students Guided (No.)		M.Sc./M.Tech:	Ph. D:	
18	Research Publications (with NAAS Rating in last 5 years)			
I	Research Papers			
i				
ii				
iii				
iv				
v				
vi				
	Total No.			
II	Books/Chapters Published			
i				
ii				
iii				
III	Awards/Memberships			
i				
ii				
iii				
19	Research interest related to Digital Farming:			
	1. 2. 3.			
20	Research statement:			

The information provided above by me are true to best of my knowledge and belief, if any information is being found false, my candidature/services, if selected, may be terminated without any notice.

Enclosure: Biodata

Date:

Place:

Name & Signature of Applicant

Date:

Authority Signature with seal

Annexure 3: Survey Questionnaire for Faculty Members

1. Name : _____
2. Age : _____
3. Teaching Experience (in years): _____
4. Department : _____
5. You are teaching which courses?
 - Under-Graduate
 - Post-Graduate
 - Ph.D.
6. You have access to the internet through
 - Dial-up connection (broadband etc)
 - Leased Lines (as available in department)
 - Wireless
 - Mobile devices
7. Which device do you use most frequently to access the Internet?
 - Smartphone
 - Tablet
 - Laptop
 - Desktop
8. Do you get Wi-Fi/ wireless Internet connectivity on your campus?
 - Yes
 - No
9. I use the Internet:
 - Daily
 - Alternate days
 - One a week
 - Irregularly
 - Rarely
 - Never
10. On an average, how much time do you spent on Internet-related activities (email, browsing, social media) daily?
 - < 1 hour
 - 1-2 hours
 - 3-5 hours
 - 3-5 hours
 - > 5 hours
 - Don not use daily
11. Have you ever taught online before? Yes or No
12. If yes, then for how long? (in hours)
13. Have you come across any Online teaching app for conducting online course before COVID-19? (Yes/No)
14. In the past year, have you taken a MOOC (massive open online course) through any institution/organization?
 - No, and I don't know what a MOOC is
 - No, but I don't know what a MOOC is
 - Yes, but I could not complete.
 - Yes, and I completed it

15. Before your transition from face to face platform to online, what made you to get online with confidence?

Statements	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
I was versed and trained for online teaching from before.					
Additional technical support was provided to transition face-to-face teaching to online amidst COVID-19 pandemic which made me confident.					
Though for the first time, but I did it on my own through trial errors.					

16. Please share your teaching experience of online teaching

Statements	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
Online teaching supported in handling the content.					
Online teaching gave more opportunity to interact with individual students.					
Online teaching reduced distractions among students and make them more focused.					
Online teaching helped in creating document of students' interaction, feedback and involvement.					
Online teaching provided better time management opportunity in class					
Online teaching gave an opportunity to record my lecture for review and follow-up					
With each online class, I felt more confident and better equipped to handle the technological issues that was a learning for me.					

17. Experiences of content sharing and other online facilities

Statements	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The content sharing in form of power point, text, photos and images etc was much easy in online teaching.					
The students' involvement and replies increased substantially due to chat box and other facility as compared to regular classroom teaching.					
The hand rise options promoted students to involve themselves much more as compared to regular classroom teaching.					
The teaching become more efficient and easier due to the online teaching functions.					

18. The experience s related to flexibility of time and space

Statements	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
The freedom of selection of time of class, right form morning to night, was an added advantage.					
The freedom of space for the class (teaching form home or anywhere) was a brilliant experience which added to quality of teaching.					
The facility of video mute and unmute also gave me more freedom to cater best teaching.					
I could feel that best teaching-learning could happen without much of the discipline of time and space.					

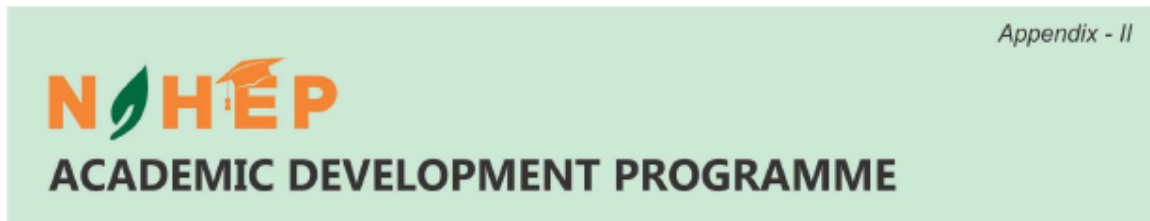
19. Do you want to continue with the online teaching experience after COVID 19 shutdown?

Statements	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
I want to continue the online teaching experience for ongoing teaching from time to time.					
I want to continue this for online interactions with other experts, professionals and to deliver lectures for other Universities.					
I want to use this experience for participating and developing my courses for online platforms like MOOC, SWAYAM etc.					

20. Please rate the following statements about technology use in your respective courses.

Statements	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
I want to keep using this online teaching technology because					
It will help me get better results in my subjects.					
It will help me align with other online platforms for better learning.					
It will help me in giving assignments, projects, tests in my subjects more effectively.					
It will align me to explore many topics/courses which I had not aligned before.					
It will help me to collaborate with others easily, both on and outside of the campus.					
It will improve me emerge as a better professional with strong networking.					

Annexure 4:
ACADEMIC DEVELOPMENT PROGRAMME



Name of the Academic Development

Programme participated _____

From Date of Programme _____

To Date of Programme _____

Name _____

ID.No. _____

Report

a) Distribution of different learning activities of the programme

	Name of the Activity	Details	Mode of Conduct (Hands On / Lecture / Interaction / Seminar / Any other/Approximate hours spent)
1			
2			
3			
4			
5			

(1 of 6)

b) Details of Study materials provided

S.No.	Name of Material	Details	Utility
1			
2			
3			
4			
5			
6			

c) Outcomes of the programme

S.No.	Outcome	Details

(2 of 6)

d) Utility of the programme

e) Logical arrangement of the programme

f) Scope for further development

(3 of 6)

g) How you will utilize the Programme

I. For the betterment of your career

ii. For the betterment of the institution

(4 of 6)

h) How you will motivate your juniors for NAHEP

Explain every activity as mentioned in 5a

(5 of 6)

General Feedback

On duration



Logistics provided



Support provided by NAHEP once at MVC



Arrangements at WSU/OSU



Suggestions for improving the programme

Suggestions for juniors

Any other

Five good photographs in high definition clearly depicting any activity

+

+

+

+

+

(6 of 6)



Contact

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National Agricultural Higher Education Project

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