



NAHEP



THE WORLD BANK



STUDENT INFORMATION BROCHURE



National Agricultural Higher Education Project

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

**Vasantao Naik Marathwada krishi Vidyapeeth Parbhani,
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www.nahep.vnmkv.org.in**

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.

Vasantrao 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	 <p>Latitude: 19.24796 Longitude: 76.794336 Elevation: 417.54±3 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.</p> <p>Powered by NoteCam</p>	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		<p>UTVs are ideal for streamlining operations at plowing time</p> <p>Once your fields are ready, you can use a spreader attachment on your UTV to help spread seeds</p>
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		<p>Robotic navigation and object recognition</p>
8	Real-sense cameras		<p>1.Robotic navigation and object recognition, 2.Useful for obstacle avoidance</p>
9	Zed Cameras 2 sensors		<p>Gather real-time synchronized inertial, elevation and magnetic field data along image and depth.</p>
10	Various industrial grade CCD cameras		<p>For Survelience purpose in agricultural machineries</p>

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		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.

Student Participation in NAHEP-CAAST, VNMKV, Parbhani

PG/Ph.D. Students 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 Parisavd 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 Programme</u> 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 Programme</u> 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>Krushi 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 jagpap & Dr. Dhiraj Kumar Kadam on a “सुदढ 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 प्राक्रिया 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

Annexure 1: List of Respondent students

Sr No	Reg. No.	Name	Department	Title of Thesis	Contact No.	Email id
Doctoral Students						
1	2017A/06P	Dake Rahul Balasaheb	Agril. Ento	Seasonal incidence and evaluation of insecticide combinations against major insect pests of BT cotton.	9975312919	rahuldake1990@gmail.com
2	2018A/08P	Kharade Vilas Gorakh	Agril. Ento	Host preference and management of fall army worm, Spodoptera frugiperda (J.E.Smith) (Lepidoptera: Noctuidae)	9421596179	Vilaskharade10@gmail.com
3	2018A/16P	Navale Mayur Dnyaneshwar	Plant Pathology	Investigation on dry root rot of safflower caused by Macrophomina phaseolina (Tassi) Goid.	9404028164	mayurnavale99@gmail.com
4	--	Shantanu Madhukar Jadhav	SSAC	Investigation on effect of zinc solubilizing microorganisms on growth, yield and nutrient, availability in pigeon pea.	9421177049	Shantanujadhav00@gmail.com

5		Bhosale Ajinkya Ravindra	Ssac	Enhancement of drought tolerance in wheat and soil health using promising microbial cultures in vertisols.	9011508666	ajinkyassac@gmail.com
6	2018A/09P	Matre Yogesh Babasaheb	Agril. Ento	Studies on seasonal incidence and insecticides spray schedule against major insect pests of BT cotton"	7387521957	yogesh.matre111@gmail.com
7	--	Shaikh Wasim Chand	Agronomy	Effect of plant growth regulators and micronutrients on growth and yield of high density planted BT cotton	8087414154	AgriCosswasim13@gmail.com
8	2018A/17P	Patil Ashutosh Chandrakant	Plant Pathology	Exploration of ginger Rhizome rot complex and its management.	9403662843	aashutoshpatil2254@gmail.com
9	2018A/10P	Prakash Lingappa Sarukh	Agril. Ento	Management of major insect pests of cabbage.	9822228399	Prakash.sarukh2222@gmail.com
10	2019A/25P	Varala Krishna Veni	Plant Pathology	Variability of <i>Rhizoctonia solani</i> Kuhn infecting small millets	7762889028	varalakrishnaveni4444@gmail.com
11	2019A/9P	Totewad Prashantkumar Gangadharrao	Plant Physiology	Not yet decided	9975789252	prashant.totewad@gmail.com
12	2019A/32P	Angad Prakash Garde	Horti	Not yet decided	8408838450	angadg28@gmail.com
13	2019A/34P	Bhosale Pushpanjali	Horti	Not yet decided	9975138118	pushpanjali.bhosale21@gmail.com

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14	2019A/27P	Lokhande Priyanka Babasaheb	SSAC	Not yet decided	9545588987	priyankalokhande0704@gmail.com
15	2019A/28P	Patil Nikhil Mahadev	SSAC	Assessment of soil and water quality for sustainable land use planning by using RS & GIS	9405569787	nikhilmpatil8@gmail.com
16	2018A/01P	Bainade Sangram Singh Punamsingh	Agronomy	Not yet decided	9637831065	sangramrajput007@gmail.com
17	2019A/33P	Motapalukula Jyothi	Vegetable Science	Studies on advanced grafting technology for salt tolerance in Brinjal (Solanum melongena L.)	9515800833	jothimotapalukula11@gmail.com
18	2018T01P	Shailendra Dilipkumar Katke	Food Engg	Standardization of technology for development of Probiotic Frozen Yogurt and Dessert by using Modified Psyllium Husk	9970996282	katkesd@gmail.com
19	2018T02P	Rushikesh Pratap Mane	Food Engg	Studies on formulation, process optimization and quality evaluation of millet-based value-added food products	9403129872	manerp.foodtech@gmail.com
20	2019T04P	Shinde Eknath Munjaji	Food Tech		9422959752	shindeeknath50@gmail.com
21	2019A/20P	Lade Ashish Homraj	Extn Edu	-----	7741043101	ashishlade24@gmail.com
22	2019A/24P	Kendre Ashatai Hanumantrao	Plant Pathology	-----	7264952586	ashataikendre@gmail.com

23	2019CS01P	Akanchha Singh	Community Sci	Development and Impact of Multigrain Mix on Diabetics		
24	2019T01P	A. Poshadri S/o. A. Mallaiiah	Food Technology	--	9850236380	ganesjpg107@gamil.com
25	2019T02P	Gaikwad Ganesh Prallad	Food Technology	--	8999068641	mundhesnehal.s@gmail.com
26	2019T03P	Mundhe Snehal Sopanrao	Food Technology	--	9422959752	shindeeknath50@gmail.com
27	2019T04P	Shinde Eknath Munjaji	Food Technology	--	8975399491	sgraavshinde@gmail.com
28	2019T05P	Shinde Sugreev Tukaram	Food Technology	--	9970996282	katkesd@gmail.com
29	2018T01P	Katke Shailendra Dilipkumar	Food Technology	--	9403129872	manerp.foodtech@gmail.com
30	2018T02P	Mane Rushikesh Pratap	Food Technology	--	8390296644	mohammadnisar.18@gmail.com
31	2018T03P	Mohammad Nisar Abdul Razzaque	Food Technology	--	9359180829	shindedevyani08@gmail.com
32	2018T05P	Shinde Devyani Digambar	Food Technology	--	9404076199	lekha02_cft@rediffmail.com
33	2018T06P	Bhokre Chandralekha Kondira	Food Technology	--	9637240406	joshianuprita.2009@gmail.com
34	2018T07P	Joshi Anuprita Ashokrao	Food Technology	--	7588156277	bhanudas95@gmail.com
35	17T2P	Mr. Patil Bhanudas Madhukarrao	Food Technology	--	9960738550	rahul.salve03@gmail.com
36	17T3P	Mr. Salve Rahul Vinayak	Food Technology	--	8888973302	zubair.foodtech@gmail.com
37	17T4P	Mr. Syed Zubair Syed Turb	Food Technology	--	9370935538	suchitrafoodtech@gmail.com

38	2019AE/01P	Sathe Mahesh Prabhakar	SWCE Agril. Engg.	--	9860334091	maheshsathe03@gmail.com
39	2018AE/02P	More Ram M.	SWCE Agril. Engg.	--	9822530967	ramlvs4ru@gmail.com
40	2017AE/01P	Nilza Othzes	SWCE Agril. Engg.	--	9419219285	nilzalampa123@gmail.com
41	2017AE/02P	More M.R	SWCE Agril. Engg.	--	9420907167	moremadhukar73@gmail.com
42	2016AE/01P	Madhuri Haridas Gajabe	APE Agril. Engg.	--	8411826013	madhurigajabe@gmail.com
43	2016AE/02P	More P. G. (In-service)	APE Agril. Engg.	--	7588082868	pramodinimore@gmail.com
44	2016AE/03P	Pawar R.B	FMP Agril. Engg.	--	9552057424	rapawarkjbf@gmail.com
45	2016AE/04P	Supekar S.J (In-service)	IDE Agril. Engg.	--	9822494350	sjsupekar@yahoo.com
46	2016AE/05P	Payal S.D (In-service)	SWCE Agril. Engg.	--	9420966384	sandippayal35@gmail.com
47	2015AE/02P	Pimpale Swapnali Vitthal	SWCE Agril. Engg.	--	9834372055	spimpale27@gmail.com
48	2015AE/03P	Takale D.D.	FMP Agril. Engg.	--	9850141121	ddtekale@gmail.com
49	2015AE/04P	Jadhav S.B.	IDE Agril. Engg.	--	7588082073	sbjadhav_aep@rediffmail.com
50	2015AE/05P	Kamble A.M	SWCE Agril. Engg.	--	8830445290	anishkamble1974@gmail.com
51	2014AE/04P	Jadhav S.B.	APE Agril. Engg.	--	7588057166	sbjadhav1972@gmail.com
52	2014AE/06P	Munde P.A.	FMP Agril. Engg.	--	7588082072	mundhe.pandit@gmail.com
53	2019A/1P	Darade Ganesh Annasaheb	Agronomy	--	9623096671	daradeganu@gmail.com

54	2019A/2P	Mane Sudhir Govind	Agronomy	--	9503582596	sudhirmane055@gmail.com
55	2019A/3P	Thombre Santosh Vitthalrao	Agronomy	--	7350267261	santhombre1995@gmail.com
56	2019A/4P	Yallanagouda Madagoudra	Agronomy	--	9611626915	yallu4229@gmail.com
57	2019A/5P	Deshmukh Akshay Suresh	Agril. Botany (GPB)	--	9881984835	akshaydeshmukh1415@gmail.com
58	2019A/6P	Sabavat Raju Naik	Agril. Botany (GPB)	--	7780765261	rajuss3134@gmail.com
59	2019A/7P	Patil Sudhir Awachitrao	Agril. Botany (GPB)	--	7588500320	sapatilap@gmail.com
60	2019A/8P	Thakur Niranjana Ravindra	Agril. Botany (GPB)	--	9404784585	niranjana.thakur95@gmail.com
61	2019A/9P	Totewad Prashantkumar Gangadharrao	Agril. Botany (Ply. Phy.)	--	9975789252	prashant.totewad@gmail.com
62	2019A/10P	Kadam Sandipkumar Raosaheb	Agril. Botany (Seed Tech.)	--	9850861312	sandeepkadamdkv@gmail.com
63	2019A/11P	Ms.Akanchha Virendra Kumar Singh	Food Science & Nutrition (CCS)	--	7620264001	anujakabra7454@gmail.com
64	2019A/12P	Agam Priyanka Ashokrao	Agril. Economics	--	8975955769	priyanka.agam123@gmail.com
65	2019A/13P	Baviskar Paresh Pundlikrao	Agril. Economics	--	9405909496	paresh.baviskar1994@gmail.com
66	2019A/14P	Sonawane Kaveri Govind	Agril. Economics	--	8275107550	kaveriyk@gmail.com
67	2019A/15P	Gangurde Shaligram Maharu	Agril. Entomology	--	9403189102	smgangurde5@yahoo.com
68	2019A/16P	Ingale Anuja Suresh	Agril. Entomology	--	9527642722	anujaingale1355@gmail.com
69	2019A/17P	Radhika	Agril. Entomology	--	9731892165	radhikakk1994@gmail.com

70	2019A/18P	Gaikwad Bhausaheb Shahu	Animal Husbandry	--	9763885122	bhausahebg2929@gmail.com
71	2019A/19P	Shinde Akshay Yogesh	Dairy Science	--	-	-
72	2019A/20P	Zine Pravin Lahanu	Dairy Science	--	8830133429	pravinzine146@gmail.com
73	2019A/21P	Lade Ashish Homraj	Extension Education	--	7741043101	ashishlade24@gmail.com
74	2019A/22P	Londhe Shital Madhukar	Extension Education	--	7218381945	londheshital92@gmail.com
75	2019	Rathod Archana Shriram	Extension Education	--	9175588207	rathodarchan06@gmail.com
76	2019A/23P	Kausadikar K D	Extension Education	--	9421384900	kishorkausadikar@gmail.com
77	2019A/24P	Jaiswal Kishor Laxman	Plant Pathology	--	8830076815	kishorjaiswal47@gmail.com
78	2019A/25P	Kendre Ashatai Hanumantrao	Plant Pathology	--	7264952586	ashataikendre@gmail.com
79	2019A/1P	Varala Krishnaveni	Plant Pathology	--	7762889028	varalakrishnaveni4444@gmail.com
80	2019A/26P	Bagmare Rakesh Ramesh	S.S.A.C.	--	9822758802	rakesh.bagmare@yahoo.com
81	2019A/27P	Lokhande Priyanka Babasaheb	S.S.A.C.	--	9545588987	priyankalokhande0704@gmail.com
82	2019A/28P	Patil Nikhil Mahadev	S.S.A.C.	--	9405569787	nikhilmpatil8@gmail.com
83	2019A/29P	Jadhav Abhijit Ravso	Fruit Science	--	9730676675	abhijadhav21694@gmail.com
84	2019A/30P	Manjare Pravin Bapurao	Fruit Science	--	8888348050	pravinmanjare8888@gmail.com
85	2019A/31P	Anurag Dasmohapatra	Vegetable Science	--		
86	2019A/32P	Kamble V.P	Fruit Science	--	8551928128	kvpn81@gmail.com

PG Students						
Sr. No	Reg. No.	Name	Department	Title of Thesis	Contact No.	Email id
1	2019AE/04M	Pornima Digambar Rathod	Agril.Engg	Performance and Evaluation of spraying drones in different cropping system	7264001468	pornimarathod600@gmail.com
2	--	Avadhut Dinkar Pawar	Agronomy	Effect of Plant Growth Regulators and Fertilizer spray on Growth and Yield of Niger (Guizotia Abyssinica (L.f.) Cass)	--	--
3	2019AE/05M	Chalapathi H V	Agril. Engg	M.Tech	8553424359	chalapathi.hv123@gmail.com
4	2019HT/11M	Chole Akshay Sridhar	Hort	Effect of Sulphure sources and Water stress regimes on storage quality of Onion (Allium Cepa.N) Bhima Shakti	7875127872	akshaychole97@gmail.com
5	2019T16M	Wandhekar Sangram Sanjay	Food Tech	Standardisation and Quality Evaluation of Millet Based Instant Appe Mix.	8308373824	sangramwandhekar297@gmail.com
6	2019T13M	Shaikh Rohina Nabi	Food Tech	Studies on Development of Mixed Fruit bar Fortified with whey protein using 3D Printing Technology	7720810420	rohina2441997@gmail.com
7	2019CS04M	Pooja Singnale	Community Sci	Gender Differences in the Nutritional Status of Adolescents(13 – 18 year old)	9876543210	poojasingnale03@gmail.com
8	2019A/ 108M	Mukesh Kumar	Plant Pathology	Studies of leaf spot of sapota Phaeophleospora indica	9799723525	mukesh12121995@gmail.com

9	2019CS10M	Swati Dagdu Suryavanshi	Community Sci	Effect of backpacks on health of school going students (60 students)	9096782349	sonaliho111@gmail.com
10	2019T01M	Alane Shakuntala Tukaram	Food Tech	studies on development of nutritionally rich sorghum based instant dhapate mix fortified with soybean flour and bottle gourd	7387713321	alaneshakuntala@gmail.com
11	2019CS03M	Yogeshwari Satishrao Pawar	Community Sci	Nutritional Status of Farm Women (30 to 60 yrs)	9923960742	rutupawar6030@gmail.com
12	2019CS05M	Nawal Mohammed Chause	Community Sci	Early child care practices adopted by parents	7972096236	nawalnahadi@gmail.com
13	--	Gajmal Dipali Bhujang	Food Tech	Process Standardization and quality evaluation of gluten free flat bread made from different varieties of sorghum	--	--
14	2019A/62 M	Kancharla Mounika	Agril.Ento	Biology and feeding potential of Chrysoperla Zastrowi millensi	8374272617	mounikareddycanchhar196@gmail.com
15	2019CS07M	Surekha Sakharam Devkate.	Community Sci	Recreational Activities For School Going Children And Their Views About It	8999177710	devkatesurekha@gmail.com
16	2019CS01M	Anuja Nandkishor Kabara	Community Sci	Nutritional Status of Obese Women (30-60Yrs)	7620264001	anujakabra7454@gmail.com
17	2019CS08M	Ujagare Prachi Navnath	Community Sci	Effects of Maternal Employment on Child Care Practices.	7448029072	prachiujgre123@gmail.com
18	2019AE/15M	Unnati Rajmal Sonawane	Agril.Engg Swce	Statistical, Trend and Dry Spell Analysis of Point Rainfall For Parbhani	9405372157	sonuunnu456@gmail.com

19	2019CS06M	Prasad Gambhirrao Deshmukh	Community Sci	Influence of TV Viewing on selected aspects of of rural school going childrens of Parbhani district	9552215262	prasadgd1996@gmail.com
20	2019CS02M	Saniya Ashok Mairal	Community Sci	Development of Nutritious instant soup mix	9022071750	saniyamairal@gmail.com
21	2019T09M	Hemanth M	Food Tech	Studies on utilization of native and modified psyllium husk as a prebiotic in food products.(smoothie, milkshake and fruit beverages)	8310050587	hemanthmjbj@gmail.com
22	2019T14M	Shingote Abhilasha Balu	Food Tech	Studies on Development and Processing of Cereals and Legume based Complementary Foods	9156312629	shingoteabhi27@gmail.com
23	2019T02M	Bachate Aditi Hanumanrao	Food Tech	Studies on Process Optimization and Quality Assessment of Frozen Dessert (Kulfi) incorporated with Partially Hydrolyzed Guar Gum	aditibachate23@gmail.com	7875030221
24	2018T01M	Bochare Suchitra Shivajirao	Food Technology	--	9049456859	taybahtabassum65@gmail.com
25	2018T02M	Bogha Taybah Tabassum Md. Zikar	Food Technology	--	-	-
26	2018T03M	Deshmukh Bhakti Anand	Food Technology	--	9373471430	snehakanchan14@gmail.com
27	2018T05M	Kanchan Sneha Satyendra	Food Technology	--	9834061648	kulkarniabhi29@gmail.com
28	2018T06M	Kulkarni Abhijit Tukaram	Food Technology	--	8379058682	snehadyp12@gmail.com

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31	2018T09M	Mandharelalita Laxman	Food Technology	--	9158239624	mohininagulwar09@gmail.com
32	2018T10M	Nagulwar Mohini Mahendra	Food Technology	--	8208474876	prashantpawar838@gmail.com
33	2018T11M	Pawar Prashant Pandurang	Food Technology	--	9075921227	reshmashaikh5555g@gmail.com
34	2018T12M	Reshma Parveen Shaikh Shafee	Food Technology	--	9823225646	samarsyed555@gmail.com
35	2018T13M	Samar Javed Syed	Food Technology	--	9226558190	deeprajtoshniwal@gmail.com
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37	2018T15M	Zade Kirti Haribhau	Food Technology	--	7387713321	alaneshakuntala@gmail.com
38		Mali Sneha Dattatraya	Food Technology	--	7058335253	harshu1696@gmail.com
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44	2019T06M	Gaikwad Kunal Kailas	Food Technology	--	7447505325	gajmald.b@gmail.com

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206	2019A/ 124M	Shinde Manojkumar Manohar	S.S.A.C. Agriculture	--		
207	2019A/ 125M	Sule Sagar Malhari	S.S.A.C. Agriculture	--	7507276883	sagarsule77@gmail.com
208	2019A/ 126M	Tadi Raja Sekhar	S.S.A.C. Agriculture	--	6304852859	rtadi29@gmail.com
209	2019A/ 127M	Yengade Shivani Uttamrao	S.S.A.C. Agriculture	--	9834062743	shivaniyengade1998@gmail.com
210	2019HT/1M	Chavan Bhagwat Bhaskar	Fruit Science	--	8605934200	bc79479@gmail.com
211	2019HT/2M	Md Shahajahan	S.S.A.C. Agriculture	--	7908758544	shahajahanmd023@gmail.com

212	2019HT/3M	Ghughe Nilesh Nivrutti	Fruit Science	--	7030273079	agricosnil33@gmail.com
213	2019HT/4M	Ghule Pranav Dattatray	Fruit Science	--	8600771678	pranavghule70@gmail.com
214	2019HT/5M	Kakade Pradip Babanrao	Fruit Science	--	9168428698	pradipkakade1234@gmail.com
215	2019HT/6M	Kakde Akshay Mukund	Fruit Science	--	8805414171	akshaykakde015@gmail.com
216	2019HT/7M	Nikam Rakshita Jayant	Fruit Science	--	9860604666	rakshitanikam4284@gmail.com
217	2019HT/8M	Panherkar Minakshi Ramdas	Fruit Science	--	9689287340	minakshipanherkar07@gmail.com
218	2019HT/9M	Pavankumar L G	Fruit Science	--	7795526272	pavankumarl09@gmail.com
219	2019HT/10M	Shivam Mishra	Fruit Science	--	9140410487	shivammishra11562@gmail.com
220	2019HT/24MI	Shivani	Fruit Science	--	8569853355	shivaniasadai81@gmail.com
221	2019HT/1M	Giram Kailas Sakharam	Fruit Science	--	9975254422	gkailas4902@gmail.com
222	2019HT/11M	Chole Akshay Shridhar	vegetable Science	--	7875127872	akshaychole97@gmail.com
223	2019HT/12M	Dethe Rohini Govindrao	vegetable Science	--	9561713601	rohinidethe201@gmail.com
224	2019HT/13M	Galande Harshada Ramesh	vegetable Science	--	9130368518	harshadagalande1996@gmail.com
225	2019HT/14M	Ingle Jagadish Dilip	vegetable Science	--	9689335450	jagadishingle@gmail.com
226	2019HT/15M	Karanam Deepika	vegetable Science	--	9032291996	karanam.deepika7@gmail.com
227	2019HT/16M	Kothekar Samadhan Gautam	vegetable Science	--	7066900241	kothekarsamadhan4@gmail.com
228	2019HT/17M	Manoj G S	vegetable Science	--	9483029823	manojs154@gmail.com
229	2019HT/18M	Sarode Umesh	vegetable	--	9168362175	umeshsarode1996@gmail.com

		Ramdas	Science			
230	2019HT/19M	Shaikh Saba Najeer	vegetable Science	--	9130494973	sabashaikhnajeer@gmail.com
231	2019HT/20M	Shivaleela Umakant	vegetable Science	--	9611575029	maushettyshivu@gmail.com
232	2019HT/21M	Jambutkarsuresh Sahebrao	Floricult & L.scaping	--	9960086104	jambutkarsuresh1992@gmail.com
233	2019HT/22M	Priya Bhusaraddi	Floricult & L.scaping	--	9972156996	priyabhusaraddi@gmail.com
234	2019HT/23M	Solapure Satish Laxman	Floricult & L.scaping	--	9637638656	satishsolapure2411@gmail.com
235	2019A/128MI	Kamble Abhijeet Sahadeo	Agronomy	--	8275023179	abhijeet.sk2211@gmail.com
236	2019A/129MI	Kale Shivaji Pandit	Extesion Education	--	9421474002	shivaji.kale0@gmail.com
237	2019HT/24MI	Giram Kailas Sakharam	Fruit Science	--	9975254422	gkailas4902@gmail.com

Annexure 2:

Proforma for NAHEP Participants



World Bank Group
**CENTRE OF EXCELLENCE FOR DIGITAL FARMING SOLUTIONS FOR
ENHANCING PRODUCTIVITY BY ROBOTS, DRONES and AGVs.**
VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI (M.S.) INDIA
Contact No. 02452_223002, 223802 Mob. 9422111232 Email: nahep.caast.vnmkv@gmail.com
www.vnmkv.org.in ; www.nahep.vnmkv.org.in



Ref: NAHEP/CAAST/VNMKV/ /2020

Date: / /2020

Proforma for NAHEP Participants

Photo

1. Full Name (Block letters) : _____
2. Designation (Students/Faculty) : _____
3. Date of Birth : _____
4. Sex (Male/Female) : _____
5. Category (OPEN/OBC/SC/ST) : _____
6. PG/Ph.D Department: _____
7. Discipline : _____
8. Domicile State : _____
9. Mobile and E-mail : _____
10. Address for correspondence : _____
(Including Phone, Fax & E-mail*) Email must for intimation of selection.

11. Educational Qualification :

Degree	Subject	Board/ University	Subject	Year	CGPA /OGPA
Ph.D.					
M.Sc./M.Tech					
B.Sc./B.Tech					

12. Professional Experience : _____
13. M.Sc. & Ph.D. Thesis : _____
(Title, objectives and Output)
13. Current area of research/ Project: _____
14. Name of Research Guide: _____
15. Fellowship: _____
16. Awards : _____
17. Does your Current Research work/ Project needs digital tools AI, Robot, Drone, AGVs Application(Give brief information) : _____
18. Publications: _____

It is to certify that the information provided above is verified from the records and found correct. If any information is being found false, my candidature/services, if selected, may be terminated without my notice.

Signature of Applicant

Date:
Place:

19. Certificate and Recommendation by forwarding authority

Date:
Place:

Signature with seal of the Authority

Annexure 3:

Survey Questionnaire for Students

1. Name: -----
2. ID No.: -----
3. Age: -----
4. Gender:
 - Female
 - Male
5. College:
6. Degree Programme:
7. Year of Study:
 - 1st Year
 - 2nd Year
 - 3rd Year
 - 4th Year
8. Was it a first time experience of online class or you had attended such classes before:
 - a. It was a first experience for me for classroom teaching and real-time lecture.
 - b. I had undertaken such classes previously also in my school days.
 - c. I have done online course previously on different subjects.
9. To what extent do you think that the process of online learning has met your expectations?

Statements	Alway s	Somewha t	Neve r
The online teaching-learning process has met my expectations.			
The online methods of course content delivery has met my expectations.			
The online course discussions has met my expectations.			
The online student-instructor interactions has met my expectations.			
The online student-student interactions has met my expectations.			

10. Suggest your level of agreeableness by answering the following questions. (SA – Strongly Agree, A-Agree, DA-Disagree, SDA-Strongly Disagree)

Statements	SA	A	Neutral	DA	SDA
Content and Design of Online Classes					
Online learning experience is enjoyable and interesting as compared to traditional classroom.					

Online learning allows learners to choose his/her leaning style.					
Subject matter introduction is as effective as in traditional classroom learning.					
Content is clearly understood and comprehensible.					
Language understanding is simple as compare to formal classroom teaching.					
The teaching material shared in online courses covers important concepts related to course outline.					
The teaching material shared in online courses is credible and up-to-date.					
Instructor to Learner Interaction (ITI)					
There is enough opportunity to interact with the instructor to ask question.					
There is enough opportunity to interact with the instructor as compared to traditional classroom.					
The instructor responded to my questions in a timely manner.					
I felt free to express and explain my own views throughout the learning process.					
Instructor Support (IS)					
The online system provides enough options to the instructor for supporting students learning.					
The online learning system provided the instructor more opportunity to generate the discussion.					
The online system provides enough options to the instructor for supporting students learning.					
Instructor Feedback					
the instructor provided timely feedback on my inputs.					
I felt as if the instructor cared about my individual learning in this learning process.					
The instructor was more responsive to student corners as compared to regular teaching.					
Learner to Learner Interaction					
Student interaction was an important component of this learning process.					
I had sufficient opportunity to interact with other students on the online platform.					
Perceived Effectiveness					
I have learned a lot during online classes.					
I would recommend online platform to friends/colleagues for effective learning.					

**Annexure 4:
ACADEMIC DEVELOPMENT PROGRAMME**

Appendix - II



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			

b) Details of Study materials provided

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

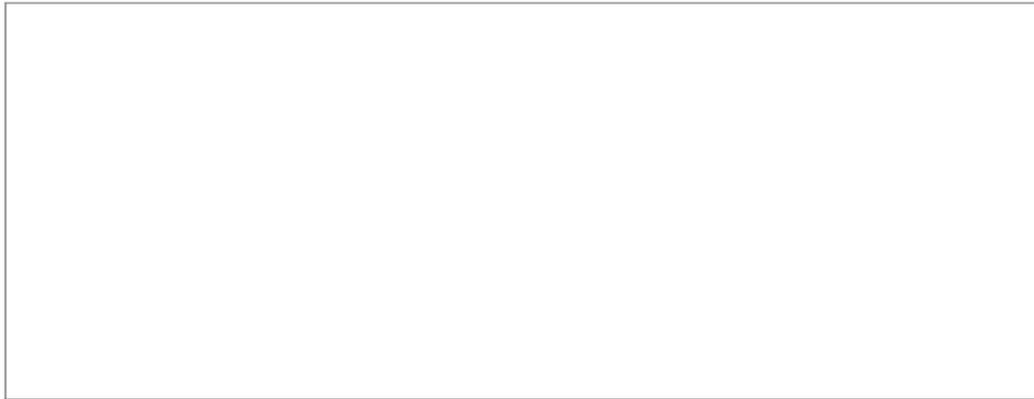
c) Outcomes of the programme

S.No.	Outcome	Details

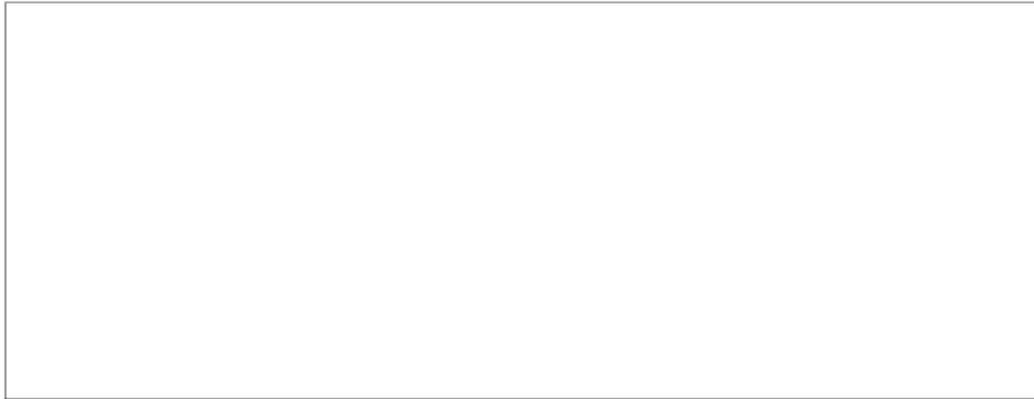
d) Utility of the programme



e) Logical arrangement of the programme



f) Scope for further development

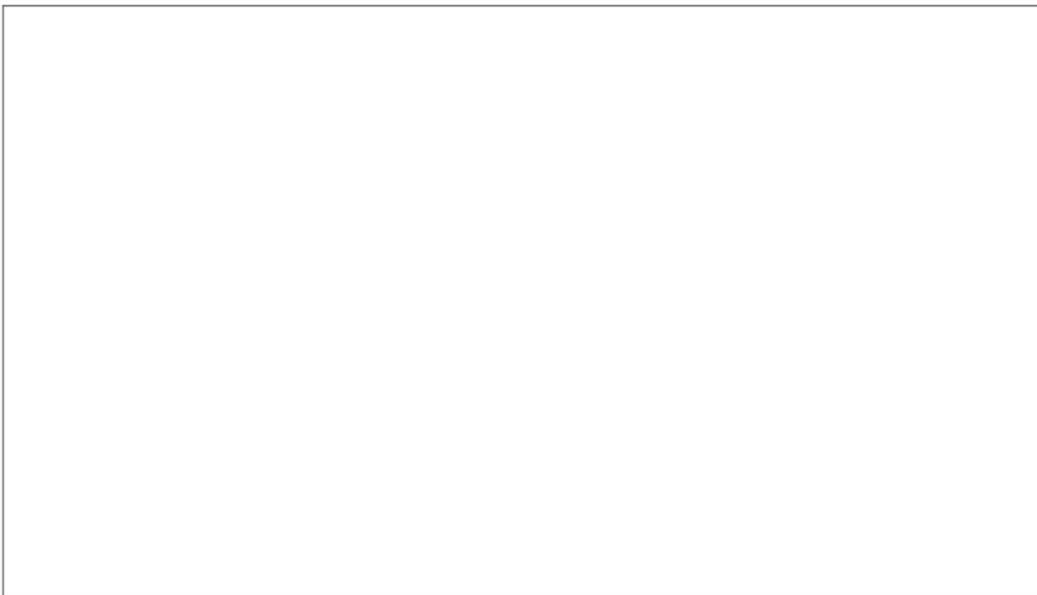


g) How you will utilize the Programme

I. For the betterment of your career



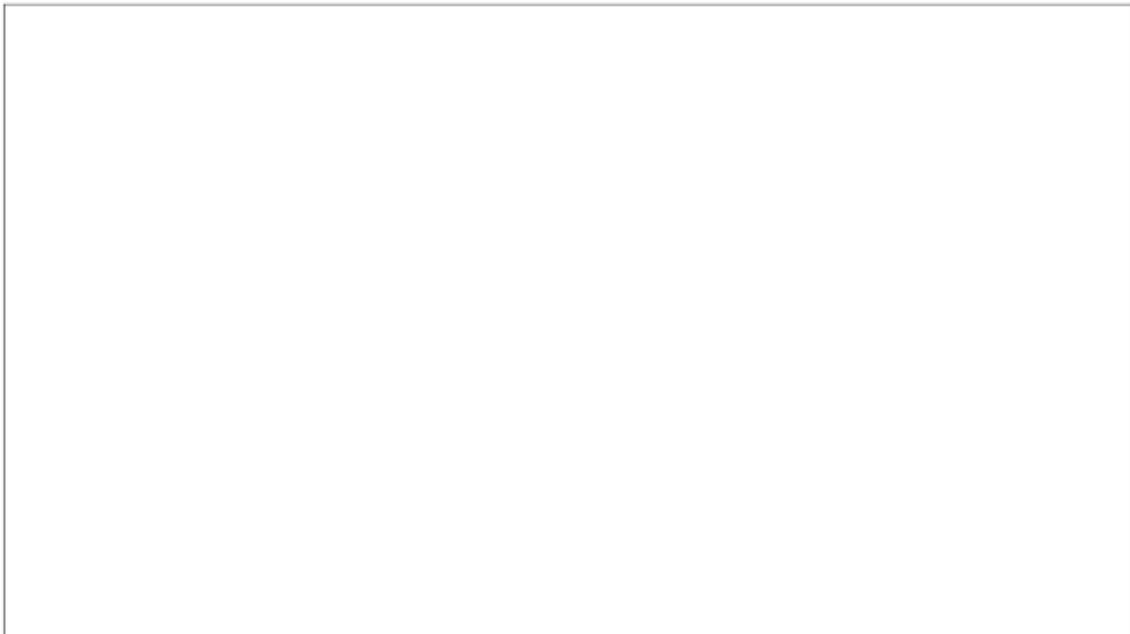
ii. For the betterment of the institution



h) How you will motivate your juniors for NAHEP



Explain every activity as mentioned in 5a



General Feedback

On duration



Logistics provided



Support provided by NAHEP once at MVC



Arrangements at WSU/OSU

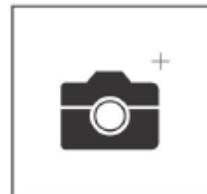
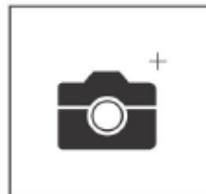
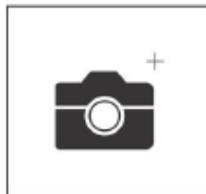
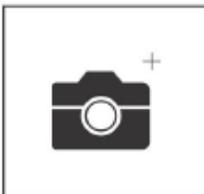


Suggestions for improving the programme

Suggestions for juniors

Any other

Five good photographs in high definition clearly depicting any activity



(6 of 6)



Contact

Dr. Gopal Shinde

Principal Investigator

NAHEP-CAAST DFSRDA

VNMKV, PARBHANI

Mob. - 9422111232

Email- nahep.caast.vnmkv@gmail.com

National Agricultural Higher Education Project

**CENTRE OF EXCELLANCE : DIGITAL FARMING SOLUTIONS FOR ENHANCING
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**Vasantrao Naik Marathwada krishi Vidyapeeth Parbhani,
Maharashtra (INDIA)
www.nahep.vnmkv.org.in**