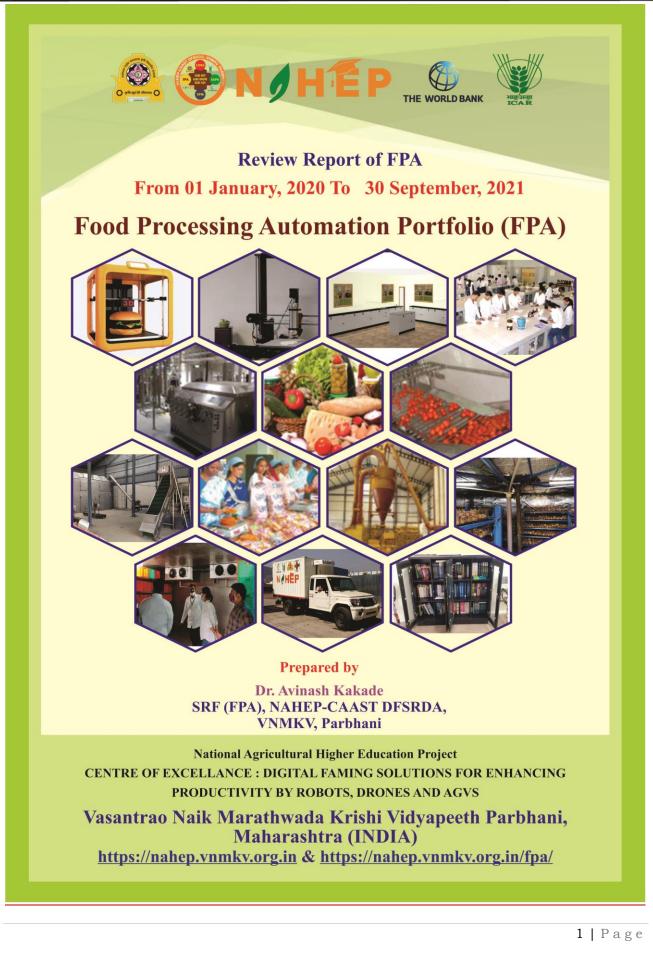




Contact No. 02452\_223002, 223802 Mob. 9422111232 Email: <u>nahep.caast.vnmkv@gmail.com</u> www.vnmkv.org.in ; <u>www.nahep.vnmkv.org.in</u>









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#### 1. About Food Processing Automation :

- India's food ecosystem offers huge opportunities for investments with stimulating growth in the food retail sector, favorable economic policies and attractive fiscal incentives. The food & grocery market in India is the sixth largest in the world. Food & grocery retail market in India further constitutes almost 65% of the total retail market in India.
- Food Processing includes process under which any raw product of agriculture, dairy, animal husbandry, meat, poultry or fishing is transformed through a process (involving employees, power, machines or money) in such a way that its original physical properties undergo a change and the transformed product has commercial value and is suitable for human and animal consumption.
- An introduction of high-tech food processes such as automation in food materials harvesting, handling, processing, packaging, storage, transportation and distribution to increase the quality, yield, diversity of products and also to enhance their shelf life.

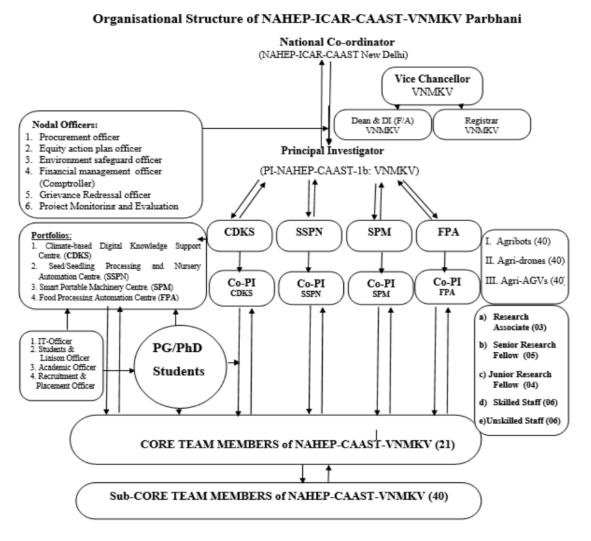
### 2. OBJECTIVE:

- Establishment of advanced engineering hardware and software setup for Mechatronics, CAD/CAM/CAE, 3-D printers and instrumentation laboratory to support application of Agri-Bots, Agri-Drones and Agri-AGVs in food processing industry.
- Strengthening of PG and Ph D courses in food processing automation by offering three elective/ certificate courses on Robotics, Drones and AGVs and their applications in Food Processing.
- Development of case studies/ projects on application of Agri-Bots, Agri-Drones and Agri-AGVs in food industry.
- Skills development of UG/PG/ PhD students and Faculty of University through academic research in food processing automation.
- Establishment of University- Industry interface at national and international level for increasing employment opportunities.
- Exposure to the PG and PhD students with the applications of Agri-Bots, Agri-Drones and Agri-AGVs in food processing.
- Development of practical applications of advanced techniques in fruit and vegetable processing.





### \* Organisational Structure of NAHEP-CAAST-DFSRDA, VNMKV, Parbhani.









### \* **<u>Point No. 4,5 and 6.</u>**

### ACTIVITIES and EVENTS Conducted during 1st Nov. to 15th Nov. 2019

- 1. 1. 2019: Brain storming workshop for the Digital Application in community Science for researcher faculty, students participant at College of Community Science VNMKV Parbhani.
- 4.11.2019: Meetings with Officer in-charge & Head of Department ,faculty and researcher students for deciding the research activities plan and technical specifications of grafting robots in horticultural Science VNMKV Parbhani for nursery automation.
- 3. 6.11.2019: Meeting and Discussion with Head of Department, faculty members and researcher students for deciding the research activities plan and technical specifications of grafting robots in entomology science VNMKV Parbhani for CDKS/SPM/SSPM sub Centre. Also to decide the research objectives in PG and PhD research students project
- 9.11.2019: Preparation of Procurement plan for plant machinery and equipment and laboratory equipment in CDKS/SSPN/SPM/FPA sub Centre with review and revised specifications as per NAHEP CAAST Objectives.
- 5. **12.11.2019:** Scrutiny and preparation eligible and not eligible candidates applied for the post for RA, SRF and JRF in NAHEP-CAAST VNMKV Parbhani Centre.
- 6. 15.11.2019: Preparation of final list of eligible candidates to appear for RA, SRF and JRF

Post interviews.

Pricipal Investigator(PI) NAHEP-CAAST-VNMKV Parbhani(M.S.) India





- \* Activities and Events Conducted during 1st Dec 2019 to 25th Jan 2020.
- 20.01.2020 to 30.01.2020: Organised interviews for Contractual Positions of Research Associate, Senior Research fellow and Junior Research Fellows required for NAHEP-CAAST-VNMKV Parbhani. Similarly, selection orders for the above-mentioned posts were issued.
- 01.01.2020 to 04.01.2020: Joining of new Contractual Staff like RA/SRF/JRF had been taken place and continuous brain storming sessions and discussion were conducted for better understanding of the objectives and outcomes of the project
- 10.01.2020: Core Team member of college of food Technology, VNMKV Parbhani, PG students had conducted seminar on Artificial Intelligence.
- 23/01/2020: Visit to machinery and power engineering & process engineering department. Differentiated between 3DR Aero Matric 600 and DJI 3DR, Prepared final draft of administrative sanctions to be signed, Collection of contact numbers from P. G /Ph.D. students. Meeting with Dr. Khodke sir, Meeting with honourable vice chancellor of VNMKV PARBHANI, request for quotation regarding computers, Syllabus for certified course soil water and plant analysis, Automation in FPA research papers is downloaded.

### \* Activities and Events Conducted during 01 Jan 2020 to to 17<sup>th</sup> March 2020.

	Event Date	Event & Activities are		Pho	oto	
		Organized/Co-ordinated				
01	24/01/2020	Organized/Co-ordinated Published the Advertisement for skilled and unskilled vacancies in ROBOTS/DRONES/AGV's Sub-centre positions on contractual/temporary basis on VNMKV Advertisement and NAHEP VNMKV Portal Ref: NAHEP/CAAST/VNMKV/ 77 / 2020 Date: 24/01/2020	ROB > Ref:	CENTRE OF EXCELLENCE FOR DI INHANCING PRODUCTIVITY I Vasantrao Naik Marathwada Krishi Vic	Higher Education Project (FATA-PARMINE SUMPOIS YOUR SUMPOIS WERNEY, UNIVERSITY OF THE SUMPOIS SUMPOSITY OF THE SUMPOIS AND ACTIVATION SUMPOSITY OF THE SUMPOSITY OF THE SUMPOIS SUMPOSITY OF THE SUMPOSITY OF THE SUMPOSITY SUMPOSITY OF THE SUMPOSITY OF THE SUMPOSITY OF THE SUMPOSITY SUMPOSITY OF THE SUMPOSITY OF THE SUMPOSITY OF THE SUMPOSITY SUMPOSITY OF THE SUMPOSITY OF	ry basis

02	24/01/2020	22, 223802 Mob. 9422111232 Email: nahe www.vnmkv.org.in : www.nahep.vnmkv Ref: NAHEP/CAAST/VNMKV/ 77 / 2020 Date: 24/01/2020	
03	24/01/2020		
04	06/02/2020	No of applications received at end of the date	
05	03/02/2020	Approval of various committees for Recruitment Process under NAHEP VNMKV Parbhani	<image/> <image/> <image/> <image/> <image/> <image/> <image/>
06	06/02/2020 to 12/02/2020	Scrutiny of received application forms regarding the advertisement for Skilled and unskilled posts. Total no. of applications received for 12 posts are 1994.	

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ENHANCING PRODUCTIVITY BY ROBOTS, DRONES and AGVs. VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI (M.S.) INDIA Contact No. 02452\_223002, 223802 Mob. 9422111232 Email: <u>nahep.caast.vnmkv@gmail.com</u>



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07	11/02/2020	One day training programme organized by Dr.R.B.Kshirsagar for PG and PHD students of Food Tech by senior guest faculty Mr.Lalit Meisheri IIT B-Tech Chemical Engineering on recent Advances on drying of food commodities	
08	13/02/2020	Mr.Ranjeet Patil, Registrar VNMKV Parbhani visited NAHEP center.	
09	17/02/2020	Mr. Matthias Maiwald from Germany and Dr. Deepak K.G. has visited NAHEP-DFSRDA	
10	18/02/2020	Mr. Anil Pagar , Director, Invensys CAD Solutions demonstratedPresentation on Creo/3D,Printing /Augmented Reality/IOT Technology for Agricultural Science and Engineering and allied science students and faculty.	
11	24/02/2020	1.NAHEP organized Brain Storming Workshop for PG/ PhD students of Extension and Agricultural Economics Department 2. Letters send to all Head under the VNMKV, parbhani for nomination of four students PG (2)/PhD (2) from each department for participation in three days national workshop.	







	nucerito: 02402_22500	www.vnmkv.org.in ; www.nahep.vnmkv	
12	25/02/2020	Redressal of grievances received from the candidates applied for different posts against NAHEP CAAST VNMKV recruitment notification.	<image/> <image/>
13	25/02/2020	Published the notification on VNMKV/NAHEP Portal regarding Schedule for writteen Examination and Interviews	Annue Tagineer Annue Tagineer A
14	04/03/2020	An order has been given to respective recruitment selection committee.	
15	05/03/2020	Recruitment work has been done for scheduled exam 06 - 07 March 2020.	

16	06/03/2020	Recruitment Day 1: document verification, Written exam and interview for the post of Junior Engineer (Electrical, Electronics, Computer Science, Mechanical And Agricultural Engg./Food Technology).	
17	07/03/2020	Recruitment Day 2: document verification, Written exam and interview for the post of Field Assistant	







		www.vnmkv.org.in; www.nahep.vnmkv	v.org.in
18	07/03/2020	Selection list published on VNMKV Advertisement and NAHEP VNMKV Portal Ref: <b>NAHEP/CAAST/VNMKV/</b> <b>172 / 2020 Date:</b> <b>07/03/2020</b>	<image/> <image/> <image/> <image/> <text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text>
19	09/03/2020	Dr. D. N. GokhaleDI & Dean F/A, VNMKV, Parbhani visited NAHEP centre for Welcome of new employee and discussed regarding three days International Workshop.	
20	13/03/2020	Three days International Workshop on "Digital Farming Practices by Agribots, Agri-Drones and Agri-AGV's" Day 1: Inaugural function Dignitaries and Experts Lectures : 1. Dr. Siva K. Balasundram, Professor, Department of Agriculture Technology, Universiti Putra Malaysia 2. Chief Guest : Mr.AvinashShirode, National Space Society- Space Ambassador, President NSS (USA) 3. President : Dr. Ashok S. Dhawan, Vice- Chancellor ,VNMKV, Parbhani 4. Prof. R.Machavaram, Agricultural and Food Engineering Department, IIT Kharagpur	





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21		5. Prof.A.K.Deb, Electrical Engineering dept. , IIT Kharagpur, Kharagpur	
22	14/03/2020	International workshop Day 2: Expertise: 1. Dr. Dineshsingh G. Thakur, Institute of Advanced Technology, DIAT (Deemed University), DRDO, Ministry of Defence, Girinagar, Pune 2. Dr. OholShantipal Suresh, Mechanical Engineering Department, College of Engineering Pune 3. Mr.SheetalJadhav, Founder and CEO,NellInfotechPvt.ltd. Pune 4.Rahul Chande, ARK Empowering Lives,Mumbai	
23	15/03/2020	International Workshop Day 3: Demonstration and valedictory function 1.Dr.AjayDeshmukh,Direc to r,Affordable robotics automation ltd (ARAPL) PUNE and treasure of IAIAM Pune 2. Dr.DeepakWaiker,Vice Chair,IEEE Education Society chapter.	SPACES



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### CENTRE OF EXCELLENCE FOR DIGITAL FARMING SOLUTIONS FOR ENHANCING PRODUCTIVITY BY ROBOTS, DRONES and AGVs.



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# ACTIVITIES and EVENTS Conducted during 18 March to 30 July 2020

		<u>s conducted during 10 m</u>	
25	18/03/2020 to 30/04/2020	<ol> <li>Attended various personal online certificate courses.</li> <li>PG/ PhD students online Trainings Assignments follow-up</li> <li>Planning for Webinar e- Trainings and e-Meetings during lockdown conditions</li> </ol>	
26	02/05/2020	<ol> <li>Prepared Faculty         Lockdown report             about e-Course/e-             Training/e-webinar             Activities.             Created Advisory group             for mentoring             PG/PhD students and             Faculty about e-Learning             activities on what's app             under             guidance of NAHEP staff.             3. Demonstration of e-             learn course         </li> </ol>	
27	04/05/2020	Conducted Meeting with PI and all CO PI of FPA Portfolios regarding webinar on FPA at department of Food Engg.	
28	08/05/2020	One day webinar organized by Dr. Shyam Graud Co-PI (FPA) on "Enhancing research writing skills of students and scholars: Citations Management" (FPA Portfolio) where 345 total participants are participated	<text><text><section-header><section-header><section-header><table-row><table-container><table-container><table-container></table-container></table-container></table-container></table-row></section-header></section-header></section-header></text></text>







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29	08/05/2020	Meeting conducted with Hon. Vice Chancellor of VNMKV Parbhani at NAHEP office regarding Review of NAHEP work during lockdown period.	
30	09/05/2020	Conducted meeting on the topic of finalizing the FPA Portfolios webinar series from 14 may to 18 may 2020 with PI Sir and FPA Core Team Members	
31	13/05/2020	Meeting regarding One week Webinar series related Food Processing Automation (FPA) portfolio.	
32	14/5/ 2020 to 19/5/ 2020	One Week webinar on <b>"Role of</b> <b>Technologies and</b> <b>Automation in Food</b> <b>Processing and</b> <b>Proservation"</b> (FPA Portfolio) organized by Dr. Shyam Graud Co-PI (FPA), 365 total participants take advantage of this webinar series	<image/> <text><text><text><text><text><text><text></text></text></text></text></text></text></text>
33	14/05/2020	Day 01: Topic 01: Processing and automation for Indian traditional food By- Dr.K Venkatesh Murthy	







Con	Contact No. 02452_223002, 223802 Mob. 9422111232 Email: <u>nahep.caast.vnmkv@gmail.com</u> <u>www.vnmkv.org.in</u> ; <u>www.nahep.vnmkv.org.in</u>			
34		Topic 02: Opportunities and challenges in food process automation of cottage level industries By- Er.Nitin Aras	Image: set of the set	
35	15/05/2020	Day 02: Topic 01:An Introduction to FSSAI ACT and Regulations By- Mr. Sanjay Dave	<ul> <li>Centre of Excellence for Digital Farming Solutions for Enhancing Moducitive Para Robots, Doros And ACK (DFRRAD)</li> <li>Centre of Excellence for Digital Farming Solutions for Enhancing Moducitive Para Robots, Doros And ACK (DFRRAD)</li> <li>Centre of Excellence for Digital Farming Solutions for Enhancing Moducitive Para Robots, Doros And ACK (DFRRAD)</li> <li>Centre of Excellence for Digital Farming Solutions for Enhancing Moducitive Para Robots, Doros And ACK (DFRRAD)</li> <li>Centre of Excellence for Digital Farming Solutions for Enhancing Moducitive Para Robots, Doros And ACK (DFRRAD)</li> <li>Centre of Excellence for Solution In Solutions in Todo Para Robots, Doros Robo</li></ul>	
36		Topic 02: Role of postharvest management in doubling the farmers income By- Dr.Madhav Naidu M		
37	16/05/2020	Day 03: Topic 01:Recent advances in food packaging By- Dr. Rajeshwar S.Matche Topic 02: Non-thermal food processing technologies By- Dr. Pradeep Singh Negi	Centre of Excellence for bigal Farming Solutions for Enhancing Productivity by Robots, Dromes And AGW (DRRAD) Vasantres Natik Mettathowak Kishik Vakyawateh Brechard 1963 Centre of Excellence and Solutions for Conference of Solutions (et al 93 May 2003) Centres Centres C	
38	17/05/2020	Day 04: Topic 01:3 D Food Printing- Scope and Limitations By- Er. Chakkaravarthi A Topic 02: Food Processing contaminants. Bisphenol- A: Impact on food safety and analysis By- Dr. Vasanth Ragavan K	<ul> <li>Centre of Excellence for Digital Farming Solutions for Enhancing Productivity By Robots, Dorne Mcd AOM (DFRDA) Naturative Nat. McNo (DFRDA) Naturative Configuration (Section Configuration) Naturative Configuration (Section Configuration) (Figuration Configuration) (Figuration Configuration) (Figuration)</li></ul>	







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39	18/05/2020	Day 05: Topic 01:3 Food nutrition awareness in view of Covid 19 pandemic By- Dr. Sridevi Annapurna Singh Topic 02: Functional Foods and their health benefit By- Dr. Ravindra V	Centre of Societance for Digital famming Solutions for Enhancing Productivity by Robots: Drones And AGN (DSSBDA) Subarton SMA (AGN) (DSSBDA) Debuter (MS) Conserved Coullies webbars reris on Role of technological and automation in hole opprecising and preservation (P4 to 19 May, 2020) State 1 Topic : Food nutrition awareness in view of Covid 19 pandemic Covid 19 pandemic Covid Covid Covid 19 pandemic Covid Covid Covid 19 pandemic Covid Covid Covid 19 pandemic Covid Covid Covid 19 pandemic Covid Covid Covid Covid Covid 19 pandemic Covid Covid Covid Covid 19 pandemic Covid Covid Covid Covid Covid Covid Covid 19 pandemic Covid Covid Covid Covid Covid 19 pandemic Covid Covid Covid Covid Covid Covid Covid Covid Covid Covid 19 pandemic Covid Covid
40	19/05/2020	Day 06: Topic: Chromatographic based analytical techniques to ensure Food Quality and Safety Issues By- Dr. Prasanna Vasu	<image/> <image/> <image/> <text><text><text><text><text><text><text></text></text></text></text></text></text></text>
41	20/5/2020 to 24 /5/2020	One Week Online training on "Recent Trends in Academic Writing" organized by Dr. Santosh Kadam VNMKV Parbhani, where 424 participants are participated.	Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani One Week Online Training Program of Recent Trends in Academic Writing 20 - 24 May 2020 Organized by University Library and Department of Extension Education VMMKV, Parbhani
42	02/06/2020	One day Krushi Parisavad organized by Dr. Kapse sir on "Soybean Lagwad Technology Parisanvad With Agriculture Minister" where 200 participants were participated	<section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header>



## CENTRE OF EXCELLENCE FOR DIGITAL FARMING SOLUTIONS FOR ENHANCING PRODUCTIVITY BY ROBOTS, DRONES and AGVs.

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

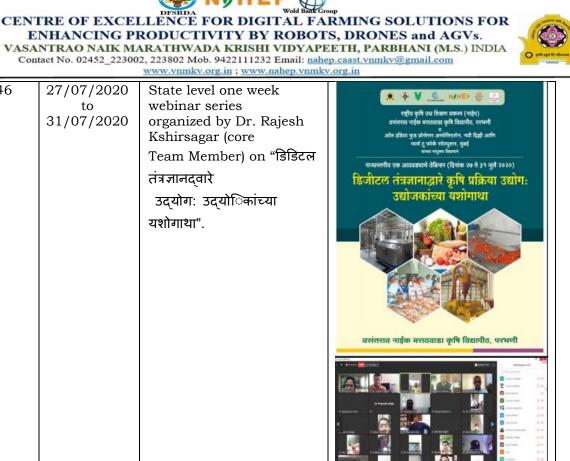


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	43	9/06/2020 to 13/06/2020	One-week online Training Programme on "COVID 19 Pandemic: Impact and Strategies in Agriculture Education" was organized by Dr. Veena Bhalerao Core Team member in which 401 participants were participated	<page-header><image/><image/><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></page-header>
				Civic Displayers and particular spectra and provide the spectra and provide th

- AR	E VASA	NHANCING PI NTRAO NAIK MA	Widd Ban Gr Widd Ban Gan Gr Widd Ban Gr Wi	S, DRONES and AGVs. CETH, PARBHANI (M.S.) INDIA
	44	25/06/2020	One day online-training program on "Power of Digital manufacturing for new product development- 3D printing" organized by Dr. Vishal Ingale where 323 participants were participated	<image/> <image/> <text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>
	45	06/07/2020 to 10/07/2020	Dr. Veena Bhalerao (Core Team member) organized webinar Series of one week on "Digital Agriculture Technologies for self-Reliance of farm woman" where 740 total participants are attended the series.	<image/> <text><text><text><text><text><image/><image/><image/><image/><image/><image/><image/><image/><image/></text></text></text></text></text>

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# ACTIVITIES and EVENTS Conducted during 01 August to 30 August 2020

47	05/08/2020	One day "Online Soyaben Workshop" conducted in presence of Hon. Maharashtra Agriculture Minister Dadaji Bhuse	<image/> <image/> <image/> <image/> <image/> <image/> <section-header><image/><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
48	10/08/2020 to 28/08/2020	National Agriculture Higher Education Project (NAHEP) has been formulated by the Indian Council of Agricultural Research (ICAR), an autonomous body responsible for coordinating agricultural education and research in India, for five years starting from 2017-18 with financial assistance of the World Bank. The project aims in developing the mechanism and resources to raise the standards of the current agriculture education on par with global agriculture education standards. The short-term course on 'Application of Digital Technologies for Smart Agriculture' is a part of one of the mandates of ICAR i.e., promotion and coordination of education in agriculture, aiming to attract talented students to the agriculture. The main objective of the short-term course is to familiarize the students with latest technologies and their applications in	<image/> <image/> <section-header><image/><section-header><image/><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>





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		agriculture to boost the professional skills of the students and faculty. The course was planned for 3 weeks, starting from 10th August 2020 to 28th August 2020. The speakers were the faculties and researchers from the renowned institutes of India, Indian Institute of Technology Bombay and Indian Institute of Technology Guwahati, and all the lectures were held virtually.				
49	10/08/2020	Inaugural function for three weeks Online short- term Course to NAHEP CAAST VNMKV Students on " Application of Digital Technologies for Smart Agriculture" held at 4.00 PM in presence of Prof. Amit Arora PI NAHEP IIT Bombay; Prof. Satish Agnihotri Co-PI NAHEP,IIT Bombay; Prof. Kavi Arya, Co-PI NAHEP IIT Bombay; Dr. Ashok Dhawan Hon. Vice Chancellor, VNMKV; Dr. D. N. Ghokhale, DI & Dean (F/A) VNMKV and Dr.Gopal Shinde PI, NAHEP CAAST VNMKV Parbhani.	<image/> <image/> <image/> <text><text><text><text><text></text></text></text></text></text>			
50	10/08/2020	Day:01 Topic: Introduction to Indian Agriculture, Advances in Crop Management	<image/> <image/> <image/> <image/> <text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text>			
51	11/08/2020	Day:02 Topic: E-Yantra and K- Yantra	<image/> <image/> <text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>			







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52	12/08/2020	Day:03	And Aprice Program and Aprice Pr		
		Topic: Sensors in Agriculture	The Table Online Table To Call Table To Tabl		
53	12/08/2020	Day:03 Topic: Electronics 101	<image/> <image/> <image/> <image/> <image/> <image/> <section-header><image/><section-header></section-header></section-header>		
54	13/08/2020	Day:04 Topic: IoT Applications in Agriculture	<image/> <image/> <text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>		
55	14/08/2020	Day:05 Topic: Let's learn Circuits & Tutorial	<image/> <image/> <image/> <image/> <text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text>		
56	17/08/2020	Day:06 Topic: Precision Agriculture	<image/> <image/> <text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>		
57	18/08/2020	Day:7 Topic: 01) Automation in Agriculture (Green House, Farm implements) & 02) Automation in Food Processing.	<image/> <image/> <image/> <image/> <text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text>		
58	19/08/2020	Day:8 Topic: Introduction to Artificial Intelligence.	<complex-block><image/><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></complex-block>		





CENTRE OF EXCELLENCE FOR DIGITAL FARMING SOLUTIONS FOR

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59	20/08/2020	Day:9	China dependencia de la construir de la constr		
		Topic: Automation in Food Processing	There Wash: Online Maine Trans Concers in SAUTE CAANT TSNICY Studies's and Applications of Deligial Technologics for Smarth 4 Applications of the Digital Technologics Tabler Concers of Ecologics (Studies), Physics SAUTE CAANT, ECA, Studies, Bouer and AGN: 102.03.Applications (Studies), Studies (Studies), Studies), Studies (Studies), Studies), S		
			Day-9 : 20 August 2020 Session: I Time : 10.30 AM Com Meeting ID: 814 0560 8310 Password: snn26J Topic: Automation in Food Processing (CTARA. IIT Beatey)		
60	20/08/2020	Day: 9	A Statistical Approximation of the state of		
		Topic: Introduction to Artificial Intelligence	Bar Streike Odale Mart Franc Carwa in NAIDF CAAT YONIN' Vandari an Applicational Offgold Technologies for Smart Application Table State State of State		
			Day-9 : 20 August 2020 Session: II Time : 03.30 PM Zoom Meeting ID: 814 0560 8310 Password: snnZ6J Topic: Introduction to Artificial Intelligence		
61	20/08/2020	Day:9 Topic: Crop Planning	Provide State		
		(Case study)	Attic Der (CTARA, UT Benkey)		
62	21/08/2020	Day:10	NFHEP Some Some Some Some Some Some Some Some		
		Topic: Application of GIS and RS in Agriculture (Part-1)	Barbard       Agel Carlow Digital Technologic for Similar 4 generation 4 gener		
63	24/08/2020	Day:11	NFFEP www.www.www.www.www.www.www.www.www.ww		
		Topic: Data Analysis (Part-1) & Data Analysis	Applications of Digital Technologies for Structure Agriculture Technologies for Structure Agriculture ("Mediate Agriculture Produces to Robust, Brown and AGV ("Mediate Agriculture"). Is it is a use at Week:-3 Day-1: 24 August 2020		
		(Part-2)	Sension: I Time : 0.3.0 AM Session: II Time : 0.3.0 PM Zoom Meeting ID: 814 0560 8310 Password: enzGJ Topic: Data Analysis (Part-1) & Data Analysis (Part-2) II Bonky Pragulanesagar		
64	25/08/2020	Day:12	Control Approximation Figure 7 and an an an and approximation for the matrix is Analysis of the figure 7 and and approximation of the analysis of the figure 7 and and approximation of the analysis of the figure 7 and and approximation of the analysis of the analysi		
		Topic: Bioinformatics	Application of Digital Technologies for Standt Agticulture Technologies and Standard Standard Agticulture Media Standard Standa		
			Session: I Time : 10.30 AM Zoom Meeting ID: 814 0560 8310 Password: snnZ6J Topic: Bioinformatics Bhatt (CTARA, IIT Benlay)		
65	25/08/2020	Day:12 Topic: Application of GIS and RS in Agriculture	A Contract of the second		
		(Part-2)	Week:-3 Day -2: 25 August 2020 Session: II Time : 03.30 PM Zoom Meeting ID: 814 0560 8310 Password: snnZ6J Topie: Application of GIS and RS in Agriculture (Part-2) (CTARA, IIT Bombary)		







		www.vnmkv.org.in ; www.nahep.vnmkv	v.org.in
66	26/08/2020	Day:13 Topic: Application of GIS and RS in Agriculture (Part-3)	<image/> With a start of
67	26/08/2020	Day:13 Topic: Application of GIS and RS in Agriculture (Part-3)	<image/> <section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
68	27/08/2020	Day:14 Topic: Spatial Statistics	<image/> <image/> <image/> <text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text>
69	27/08/2020	Day:14 Topic: GIS applications for Agriculture (Case study)	<complex-block><image/><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></complex-block>
70	27/08/2020	Day:14 Topic: Data Analysis (Part-3)	<image/> <image/> <image/> <image/> <image/> <section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><image/><text><text><text><text><text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
71	27/08/2020	Day:14 Topic: Crop planning	<image/> <section-header><image/><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
72	27/08/2020	Day:14 Topic: Climate Smart Storage Structures	<image/> <image/> <image/> <image/> <image/> <section-header><image/><section-header><image/><section-header><image/><section-header><image/><section-header><image/><section-header><image/><text></text></section-header></section-header></section-header></section-header></section-header></section-header>





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73	27/08/2020	Day:14	
		Topic: Automation in Agriculture	<image/> <section-header><image/><section-header><image/><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
74	27/08/2020	Day:14 Topic: Automation in Agriculture	<image/> <section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
75	28/08/2020	Day:15 Topic: Over Feedback taken from each participants. 52 Participants received a copy of training complitation certificate	<complex-block><complex-block><section-header><complex-block><section-header><complex-block><section-header><complex-block><section-header><complex-block><text></text></complex-block></section-header></complex-block></section-header></complex-block></section-header></complex-block></section-header></complex-block></complex-block>

### **# ACTIVITIES and EVENTS Conducted during 01 September to 30 November 2020**

76	08/09/2020	Practical Exam and Interview process of Shortlisted candidate for the post of Computer operator or Office assistant is held at NAHEP center	
77	08/09/2020	Document Verifaction of Shortlisted candidate for the post of Computer operator or Office assistant is held at NAHEP center	

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							
78	08/09/2020	Published the selection list of Office Assistant/ Computer Operator under NAHEP CAAST VNMKV Parbhani on VNMKV/NAHEP Portal	<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>				
79	17/09/2020		One day Online Farmers meet was organized by Extension Department coordinal with NAHEP on the occasion of "Marathwada Mukti				
80	18/09/2020	Advt. No.03 : Notification for filling the contractual positions Viz. Research Associate (RA) and Account Assistant Ref: NAHEP/CAAST/VNMKV/ 441/2020, Date: 18/09/2020	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>				
81	18/09/2020	Advt. No.03 : Notification for filling the contractual positions Viz. Research Associate (RA) and Account Assistant Ref: <b>NAHEP/CAAST/VNMKV/</b> 441/2020, Date: 18/09/2020	<image/> <image/> <image/> <text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>				





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82	24/09/2020	Meeting with NAHEP staff Related to Procurement.	
83	01/10/2020	Approval of various committees	<image/>
84	08/10/2020	Interview Schedule and List of shortlisted candidates called for the interview of Research Associate (RA) and Account Assistant posts under NAHEP-CAAST- VNMKV Project.	<image/> <image/> <image/> <image/>
85	08/10/2020	Interview Schedule and List of shortlisted candidates called for the interview of Research Associate (RA) and Account Assistant posts under NAHEP-CAAST- VNMKV Project	<image/> <image/>

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	86	15/10/2020	Selection list of Research Associate (RA) and Account Assistant posts under NAHEP-CAAST- VNMKV Project has been published on VNMKV/NAHEP Portal			
	87	06/11/2020	Dr. Avinash Kakade & Dr. Hemant Rokade Senior Research Fellow NAHEP VNMKV Parbhani Published popular Marathi on "सीताफळापासून होतो जीवनसत्वांचा पुरवठा" Articles in Agrowon.	<section-header><section-header><section-header></section-header></section-header></section-header>		
	88	15/11/2020	Dr. Avinash Kakade & Dr. Hemant Rokade Senior Research Fellow NAHEP VNMKV Parbhani Published on "संतुलित आहार स्रोत : सिताफळं" popular Marathi Articles in Agrowon.	<text><text><text><text><text><text></text></text></text></text></text></text>		



# NAHEP

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: <u>nahep.caast.vnmkv@gmail.com</u>

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_	-		www.viiinkv.org.iii , www.nanep.viiiik	
	89	20/11/2020	Gopal Raner, Junior Engineer & Dr. Avinash Kakade, Senior Research Fellow, NAHEP VNMKV Parbhani Published Marathi Article on "शेतीमध्ये ड्रोन तंत्रज्ञानाचा वापर" in Agrowon Daily Magazine."	<text><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></text>
				वेचे, सकलित केलेक्ट या साहेतीये एकाइंग सिकलेप्स केले जाते. पुडीत ट्य्यामध्ये या साहितीला याजिक लिकाल्पणांची (सरित लॉर्म) जोड देता देवेल, यामुळे पिकंप्या गरजा जाजूर, आगंआप योग्य व्यागात खते, कीटक्नाराके आणि पानी देता इंड गल्दले. मर्याद्य भारतामध्ये ट्वेन उत्पाहक खेयन्या आधार परदेशी घटकावर अवलंबून आहेत. भारतीय बनावटीच्या ट्वोन्सी निर्मती हे आपलन आहे. • ट्रोन निर्मतीचा दार्च गर्वादित ठेवगे हे दुसरे आहान अस्मार आहे. कारण भारत हा अल्पमुधारकांचा देश आहे. येथे अधिक महानदी थी केविय्या शेतकायांचती नेपायांने क्रिंड अवराय आहे.



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**# ACTIVITIES and EVENTS Conducted during 01 December to 31 December 2020** 

90	03/12/2020	Avinash Kakade, Senior Research Fellow, Hement Rokde, Senior Research Fellow & Rashmi Bangle, Junior Engineer NAHEP VNMKV Parbhani Published Marathi Article on "सीताफल (शरीफा) के औषधि गुणधर्म" part-I in Ropan Magazine	<complex-block><complex-block><complex-block><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></complex-block></complex-block></complex-block>
91	23/12/2020	On the occasion of National Farmer's Day NAHEP-CAAST, VNMKV, Parbhani Inaugurated different online activities such as online Essay Competition, online Quiz Competition, online Debate & Poster Competition for PG/Ph.D Students and Faculties and others.	
92	23/12/2020	On the occasion of National Farmer's Day NAHEP-CAAST, VNMKV, Parbhani organized Quiz Competition on "Food Processing Automation" for PG / Ph. D Students. Where 220 Participates are participated in this Quiz Competition.	Contract VARIENCY MAILENCY MAILENCE AND A CONTRACT OF
93	28/12/2020	Attended Two weeks "Hands on Training on ANSYS 2020 R2" in collaboration with ARK Info Solution, Mumbai was Inaugurated at NAHEP CAASTDFSRDA Centre, Parbhani. Topic Covered: MODELING Basics of SCDM: Sketching, Geometry Modeling: Modeling, Geometry	<image/> <image/> <text><text></text></text>







Co	ntact No. 02452_22500	2, 223802 Mob. 9422111232 Email: <u>nahe</u> <u>www.vnmkv.org.in</u> ; <u>www.nahep.vnmkv</u>	
94	29/12/2020	Attended Day-2: "Hands on Training on ANSYS 2020	with the a
		R2" Topic Covered: MESHING Introduction to Meshing: ANSYS Meshing Basics.	
95	30/12/2020	Day-3: "Hands on Training on ANSYS 2020 R2" Topic Covered: MECH Mesh Methods: Mesh Methods, Global Mesh Controls: Using Global Mesh Controls, Local Mesh Controls: Local Mesh Controls, Introduction to FEM: ANSYS Mechanical Overview.	
96	31/12/2020	Day-4: "Hands on Training on ANSYS 2020 R2" Topic Covered: MECH Introduction to FEM: Static Structural Analysis, Static Structural Analysis: 1d 2d 3d Analysis, Modal Analysis: Plate with hole, Eigenvalue Buckling: Buckling of column, Thermal Analysis: Steady State Thermal Analysis, Static Structural: Analysis of shaft and bearing.	
97	31/12/2020	Raheem Khan, Junior Research Fellow, Dr. Rokade H. N.,and Dr.Kakade A.S Senior Research Fellow NAHEP VNMKV Parbhani Published English Article on"Precision Farming-The Digital Approach" in AgriCos e-Newsletter	<image/> <image/> <image/> <text><text><text><text><text><text><text><text><text><text><text><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></text></text></text></text></text></text></text></text></text></text></text>

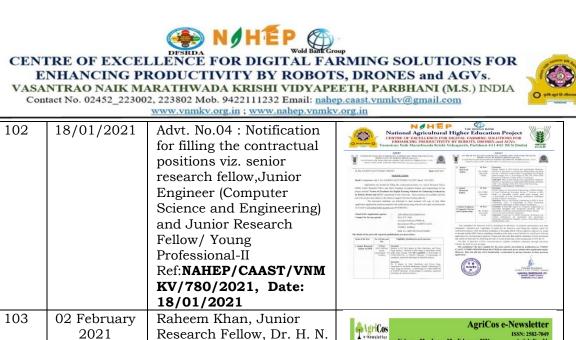




### <u># ACTIVITIES and EVENTS Conducted during 01 January to 30 April 2021</u>

		1	
98	01/01/2021 To 06/01/2021	Attended Day-5: "Hands on Training on ANSYS 2020 R2" Topic Covered: CFD Introduction to CFD, Introduction to GUI: Fluent Fluid Flow & Heat Transfer in Mixing Tee, Cell Zone & Boundary Conditions: flow around a sphere, Boundary Condition Continued	
99	07/01/2021	Attended Hands on training "Multispectral camera Parrots Sequoia, Micasense with Pix-4D software from Kambil system for mapping Survey, and inspection of field	
100	10 January 2021	Raheem Khan, Junior Research Fellow, Dr. Rokade H. N.,and Dr.Kakade A.S Senior Research Fellow NAHEP VNMKV Parbhani Published English Article on"Rain Water Harvesting" in AgriCos e-Newsletter	<image/> <image/> <image/> <text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text>
101	18/01/2021	Advt. No.04 : Notification for filling the contractual positions viz. senior research fellow,Junior Engineer (Computer Science and Engineering) and Junior Research Fellow/ Young Professional-II Ref: <b>NAHEP/CAAST/VNM</b> <b>KV/780/2021, Date:</b> <b>18/01/2021</b>	<image/> <image/> <image/> <image/> <image/> <image/> <section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>





		Engineer (Computer Science and Engineering) and Junior Research Fellow/ Young Professional-II Ref: <b>NAHEP/CAAST/VNM</b> <b>KV/780/2021, Date:</b> <b>18/01/2021</b>	<text><text>      in the state of the</text></text>
103	02 February 2021	Raheem Khan, Junior Research Fellow, Dr. H. N. Rokade, Senior Research Fellow, Dr. G. U. Shinde, Principal Investigator, & Dr. A. S. Kakade, Senior Research Fellow, NAHEP- CAAST, VNMKV Parbhani Published English Article on "Hydroponic, Step Towards Smart Agriculture" in AgriCos e-Newsletter Monthly Magazine	<image/> <image/> <image/> <text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>
104	05/02/2021	Approval of Various committees	<image/>

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	105	08 February 2021	Marathi Popular Article Published in Baliraja Magazine By Dr. Avinash Kakade and Dr. Hemant Rokade on "आधुनिक युगातील पशुपालनाचे तंत्रज्ञान" in <b>बळीराजा</b> Monthly Magazine	<text><text><image/><section-header><text><text><text><text><text><text></text></text></text></text></text></text></section-header></text></text>	
	106	02/03/2021	Meeting with PG/Ph.D. Scholar from Agricultural College, VNMKV regarding internship @FAO	and end a gran gran ender of weld and weld and weld and the of a data weld and the second and the of a data weld and the second and the secon	
	107	02/03/2021	Meeting with progressive industrialists/ farmers regarding Pulp manufacturing Industry's	Mr. Inamdar, Mr. Ashish Inamdar, Mr. Sanjay Nikam Dr. Hement Rokade & Dr. Avinash Kakade	
	108	05/03/2021	Redressal of grievances received from the candidates applied for different posts against NAHEP CAAST VNMKV recruitment notification.	<section-header><image/><image/><image/><image/><text><text><section-header><section-header><section-header><section-header><section-header><form></form></section-header></section-header></section-header></section-header></section-header></text></text></section-header>	

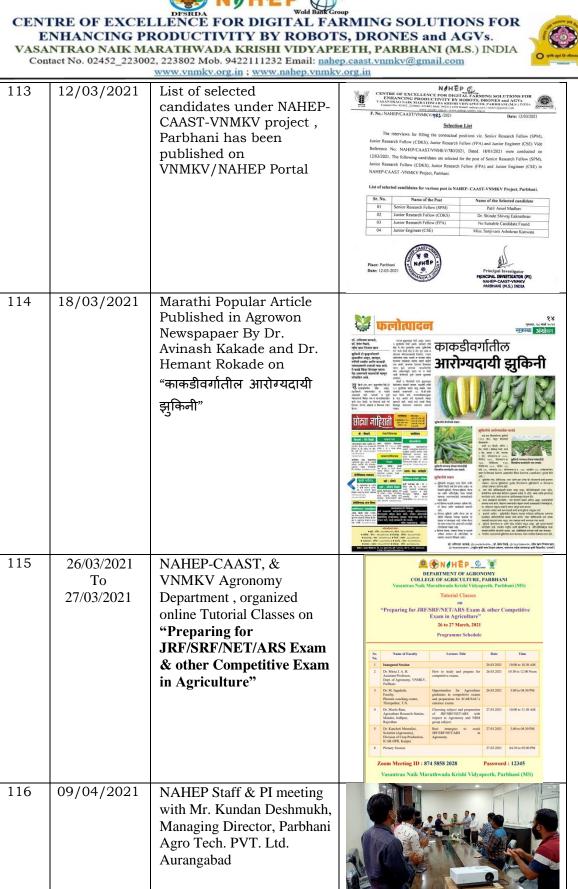






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109	08/03/2021	Online programme on	
		occasion of International	आंतरराष्ट्रीय मुद्दिता दिन मुद्दोत्तरात त्या मेठवन अनिवार कार्यका स्वाय भारत कार्यका किस्ट संवेत केला केला म्या प्राय सावस
		Woman's Day "महिला नेतृत्व:	क समझाने विभिन्न करा । • स्वरण = स
		कोव्हिड-19 जगात एक समान	डॉ. प्रार्थगत जोखाने सी. सिरदुराप प्राप्ताये चायाजन शिवन व जोताया सिर्फात प्रतिकार प्रतिकार चात्र प्रत्न प्रकृति , जरवनी इ. प्राय्य प्रपरिति ।
		भविष्य साध्यता आव्हानेत	भीभाषी उच्च उसरोक स्वाप्य भीभाषी सुर्पण वाप्रसार वाम्यालन कींपीयी उपल्या प्रवित्य सेवायों भीभाषी दीपियत स्वाउतित प्रदान्त कींपी प्रवित्य स्वाप्ति के स्वाप्य के स्वाप्य ही जानकिंपत कीलेन्द्री स्वाप्य के स्वाप्य स्वाप्य के स्वाप्य के स्वाप्य के स्वाप्य के स्वाप्य के स्वाप्य के स्वा
		आव्हाने निश्चित करा ! "	भी से अपनी स्थान को भोनेको भी सा अपनी भार, सि अग्र का स्थान का भारत के स्थान का स्थान को भीनी पर पुरिसार्ग के स्थान प्रार्थ प्रार्थ के स्थान के स्थान के स्थान के स्थान के स्थान के स्थान के स्थान से से स्थान कि स्थान के स्थान क स्थान के स्थान का स्थान का स्थान के स्थान को स्थान को
			ितरणः समाप्रतिविक्तीत स्वरित्व स्वतित्व स्वात्माः क्रिप्ताः सम्प्रतिविक्तीत स्वरित्व स्वतित्व क्रिप्ताः क्रिप्ताः स्वर्णमाः स्वर्ति निक्रम्प्र सीत्रम्
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		Online programme on	
		occasion of International Woman's Day ''महिला नेतृत्व:	
		कोव्हिड-19 जगात एक समान	2 Clean block A June 200 Contraction Contraction Contraction
		भविष्य साध्यता आव्हानेत	
		आव्हाने निश्चित करा ! "	
			Fundaher
110	10/03/2021	Ph.D. research scholar Miss.	
_	-,,	Nilza Othez & Mr. Hemant	
		Rupnawar (PFE) visited	
		NAHEP Centre	
111	12/03/2021	The interviews for filling the	
		contractual positions viz. Senior Research Fellow	
		(SPM), Junior Research	
		Follow (CDKS), Junior	
		Research Fellow (FPA) and	
		Junior Engineer (CSE) Vide Reference No.	
		NAHEP/CAAST/VNMKV/7	
		80/2021, Dated. 18/01/2021	
		were conducted on 12/03/2021.	
112	12/03/2021	Participated in	Glimpses of Recruitment of SRF, JRF, JE
		Conducting Online	
		Interview for the Post of SRF JRF JE	









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VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI (M.S.) INDIA Contact No. 02452\_223002, 223802 Mob. 9422111232 Email: <u>nahep.caast.vnmkv@gmail.com</u> <u>www.vnmkv.org.in</u>; <u>www.nahep.vnmkv.org.in</u>

		www.viiiikv.org.iii, www.iiaiiep.viiiikv	The game
117	12/04/2021	Ph.D. research scholar Miss. Nilza Othez & Mr. Hemant Rupnawar (PFE) visited NAHEP Centre	Guidance to PG/Ph.D. Research Scholar
118	15/04/2021	Distribution of PG/Ph.D. Research scholar among NAHEP Staff as NAHEP Advisor	Distribution of PG/PDD Students all to mark the state of
119	15/04/2021	Distribution of PG/Ph.D. Research scholar among NAHEP Staff as NAHEP Advisor	Distribution of PG/PhD Students/Faculty/ Coretean 2020-21
120	17/04/2021	Upgrade the NAHEP VNMKV Portal (https://nahep.vnmkv.org.in/) with Photo, NAHEP Working profile of Core Team Member and NAHEP Staff	NAHEP Portal Upgraded
121	17/04/2021	Upgrade the NAHEP VNMKV Portal (https://nahep.vnmkv.org.in/) with FPA Information Bro	<section-header></section-header>
122	20/04/2021	Updated the NAHEP Portal with FPA Information Brochure and Facilities available under FPA Portfolio	Updated the NAHEP Portal with FPA Information Brochure and Facilities available under FPA Portfolio
123	21/04/2021	Updated the NAHEP Portal with FPA Information Brochure and Facilities available under FPA Portfolio	<section-header></section-header>

Hen R	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: <u>nahep.caast.vnmkv@gmail.com</u> <u>www.vnmkv.org.in</u> ; <u>www.nahep.vnmkv.org.in</u>				
	124	21/04/2021	NAHEP-CAAST, VNMKV, organized a zoom meeting for "Meeting on Grafting Robot by Kusakabe Kikai Co. Ltd. Japan" for mutual collaboration for development and advancement in the existing grafting robot.		
	125	26/04/2021	NAHEP-CAAST, VNMKV, organized a zoom meeting for "Technical discussion on 3D Food printing" with core team members from Food Technology & Agril. Engraining College.	Dr. G. U. Shinde, Dr. Shaym Garud, Dr. R. B. Kshirsagar, Dr. B. S. Agarkar & Prof. Lahane & Prof Gosavi from CSMS College, Aurangabad	
	126	27/04/2021	Annual Procurement Review Meeting For 2020-21 At NAHEP-DFSRDA-VNMKV Centre	Tree C. U. Shinde, Ravi Kumar Kalloji, Er. D. D. Tekale, Dr. U. M. Khodke, Dr. K. K. Dakhore, Er. S. N. Pawar, Er. Kemchand Kapgate, Dr. Hement Rokade, Dr. Avinash Kakade	
	127	28/04/2021	NAHEP-CAAST, VNMKV, organized a zoom meeting for "Technical discussion on 3D Food printing"	President de la construction	

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VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI (M.S.) INDIA Contact No. 02452\_223002, 223802 Mob. 9422111232 Email: <u>nahep.caast.vnmkv@gmail.com</u> www.vnmkv.org.in ; www.nahep.vnmkv.org.in



128	28/04/2021	Procurement Activities	
		Ongoing under Food	PROCUREMENT ACTIVITIES ONGOING     Food technology unit: RFQ Finalised
		Processing Automation	
		Portfolio.	
			International Control of Contro of Control of Control of Control of Control of Control
			The American Stream Str

## <u># ACTIVITIES and EVENTS Conducted during 01 May 2021 to 30 September 2021</u>

129	03/05/2021	Prepared Food Processing Automation (FPA) Information Brouchure Co-Hosted NAHEP-CAAST, VNMKV, organized a zoom meeting on occasion of VNMKV University Foundation Day for "खरीप शेतकरी मेळावा"	<image/> <image/>
			tiener, brort Henr di Af, di antiù yen Kerer Henra albarni Bores albane phi albarti, voret Zoom Meeting (D: 1553 93 386) Passoward: 1224 in draamind werer familieren greger di serverit averan afer.
131	19/05/2021	Meeting with Dr. Jwale Sir Regarding Dates Planting and PHT of Dates	
132	20/05/2021	Discussion with PI Sir and FPA Core Team Members along with Dr. H N Rokade and Mr. Nagesh Hiware regarding Value	



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		addition of caster seed oil	
		and DOC	
133	25/05/2021	Finalise the MOU draft with CHAMBER FOR ADVANCEMENT OF SMALL AND MEDIUM BUSINESSES, Mumbai	
134	27/05/2021	Organised a Review Meeting with PG PHD Research scholar from Food Technology College on Ongoing research activity	
135	28/05/2021	Host the Online Zoom Meeting for Director of Extension Education Department on BBF Planter for Farmers of Marathwada Region Organised by KVK Aurangabad. 460 Farmers are participated in this meeting	
136	04/06/2021	CO-HOST for Seed Production and Planning Zoom Meeting	
137	06/06/2021	Celibration of World Enviroment Day	
138	07/06/2021	Co-Host and Co-ordinator fora Four Week Training Programme on "APPLICATIONS OF COMPUTER AIDED ENGINEERING IN AGRICULTURE" scheduled during 07th June to 03 rd July 2021.	<image/> <text><text><text><text></text></text></text></text>

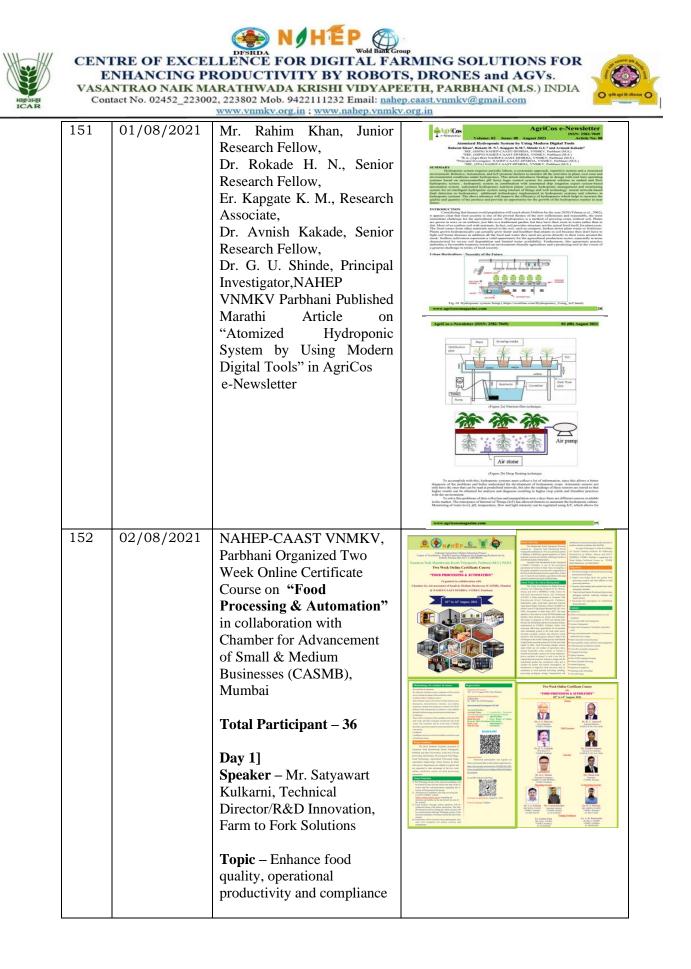




ENHANCING PRODUCTIVITY BY ROBOTS, DRONES and AGVs. VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI (M.S.) INDIA Contact No. 02452\_223002, 223802 Mob. 9422111232 Email: nahep.caast.vnmkv@gmail.com www.vnmkv.org.in ; www.nahep.vnmkv.org.in



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139	23/06/2021	Dr. Avanish Kakade, Senior Research Fellow & Dr. G. U. Shinde, Principal Investigator, NAHEP- CAAST, VNMKV Parbhani Published Marathi Article on "अन्न प्रक्रियेमध्ये 3 डी प्रिंटिंगची तंत्रे" in Agrowon Daily Magazine.	<page-header><page-header><page-header><page-header><page-header><page-header><image/><image/><image/><image/><image/><section-header><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></section-header></page-header></page-header></page-header></page-header></page-header></page-header>
140	02/07/2021	The MoU between NAHEP- DFSRDA, VNMKV, Parbhani & Washington State University, Pullman, USA the two international organizations will include agricultural education, research as well as exchange of students, faculties and scientists from universities. Information on modern technologies in agriculture such as drone technology, robotics, artificial intelligence, precision agriculture, automated machinery etc. will be exchanged.	
150	05/07/2021	Co-Host and Co-ordinator fora Four Week Training Programme on "APPLICATIONS OF COMPUTER AIDED ENGINEERING IN AGRICULTURE" scheduled during 07th June to 03 rd July 2021 and Valedictory function of training on 05/07/2021	





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	www.vnmkv.org.in ; www.nahep.vnmkv.org.in		
153	03/08/2021	NAHEP-CAAST VNMKV, Parbhani Organized Two Week Online Certificate Course on <b>"Food</b> <b>Processing &amp; Automation"</b> in collaboration with Chamber for Advancement of Small & Medium Businesses (CASMB), Mumbai	Norm     Norm
		Day 2] Speaker – Senior Data Science Manager, BASF SE, Germany.	
154	04/08/2021	Topic – IOT in food trade & retail management NAHEP-CAAST VNMKV, Parbhani Organized Two Week Online Certificate Course on "Food Processing & Automation" in collaboration with Chamber for Advancement of Small & Medium Businesses (CASMB), Mumbai	<complex-block></complex-block>
		<b>Day 3]</b> <b>Speaker</b> – Dr. Sagar Gokhale, Ojman Foodbio, Co-founder and partner.	
		<b>Topic</b> – Inventory	
155	05/08/2021	Management NAHEP-CAAST VNMKV, Parbhani Organized Two Week Online Certificate Course on <b>"Food Processing &amp; Automation"</b> in collaboration with Chamber for Advancement of Small & Medium Businesses (CASMB), Mumbai	
		Day 4] Speaker – Mr. Aniket Gawai, Doctoral Researcher & Academic Mentor, University of Reading, UK Food Supply Chain Transparency & Traceability	





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using Block Technology	chain		
solution and	blockchain		
08/2021 NAHEP-CA Parbhani Org Week Online Course on " <b>Processing a</b> in collaborat Chamber for of Small & M	AST VNMKV, ganized Two e Certificate Food & Automation" ion with Advancement Medium		
Consultant, A Training & C <b>Topic</b> – Des implementat 4.0 solutions	Auditor, Certifications sign and tion of Industry s in traditional		
08/2021 Governor of Hon. Bhaga Koshyari vi	Maharashtra at Singh sited to NAHEP- MKV, Parbhani	Figure 1Figure 2Figure 2Grand Welcome to Hon. Bhagat Sing Koshyari by Hon. Vice Chancellor Dr. Ashok Dhawan, Dr. D. N. Gokhale& Dr. G. U. ShindeFigure 2Figure 2	
	<ul> <li>using Blocka Technology</li> <li>Topic – Foo solution and managemen</li> <li>08/2021</li> <li>NAHEP-CA Parbhani Org Week Online Course on " Processing a in collaborat Chamber for of Small &amp; N Businesses ( Mumbai</li> <li>Day 5] Speaker – M Consultant, a Training &amp; O</li> <li>Topic – Des implementat 4.0 solutions factory settin</li> <li>08/2021</li> <li>Governor of Hon. Bhaga Koshyari vi</li> </ul>	using Blockchain TechnologyTopic – Food traceability solution and blockchain management08/2021NAHEP-CAAST VNMKV, Parbhani Organized Two Week Online Certificate Course on "Food Processing & Automation" in collaboration with Chamber for Advancement of Small & Medium Businesses (CASMB), MumbaiDay 5] Speaker – Mr. Raj Kumar, Consultant, Auditor, Training & CertificationsTopic – Design and implementation of Industry 4.0 solutions in traditional factory settings	



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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



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158	09/08/2021	NAHEP-CAAST VNMKV, Parbhani Organized Two Week Online Certificate Course on "Food Processing & Automation" in collaboration with Chamber for Advancement of Small & Medium Businesses (CASMB), Mumbai	Transition of the second secon
		Day 6] Speaker – Mr. Sanjay Indani, Lead auditor ISO 22000, FSSC 22000, ISO 9001, BRC FOOD, SA 8000, NRP FoSTaC-FSSAI, APEDA Consultant-Food Safety.	Competitive advantage and SCM
		Topic - Supply chain management, Traceability	
159	10/08/2021	and product recall NAHEP-CAAST VNMKV,	Examp Describe For Company Describe For Co
		Parbhani Organized Two Week Online Certificate Course on "Food Processing & Automation" in collaboration with Chamber for Advancement of Small & Medium Businesses (CASMB), Mumbai	Why is R&D IMPORTANT? Critical to survival Fast changing environment Continuous technology change Competition Changing consumer preferences Fundamental to "marketing"
		Day 7] Speaker – Mr. Ritesh Mathur, Senior level leading R&D for McDonalds, Danone, General Mills, Givaudan, Godfrey Phillips and Raptakos & founder of F2F Solutions	Image: Constrained of the state o
		Topic - R&D innovation in food processing	Plantes 0.3 1 5 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
160	10/08/2021	Dr. Avinash Kakade Senior Reserch Fellow, & Dr. Gopal Shinde, Principal Investigator, Dr. Shyam Garud, Core Team Member, Dr. R. B. Kshirsagar, Core Team Member, Dr. B. S. Agarkar, Core Team, NAHEP VNMKV Parbhani Published English Article on "3D Food Printing Scope	<section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><text></text></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></section-header>





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		And Limitations" in Ropan Monthly Magazine.	<text><text><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><list-item><list-item><list-item><list-item><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></list-item></list-item></list-item></list-item></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></text></text>	
161	11/08/2021	NAHEP-CAAST VNMKV, Parbhani Organized Two Week Online Certificate Course on "Food Processing & Automation" in collaboration with Chamber for Advancement of Small & Medium Businesses (CASMB), Mumbai Day 8] Speaker – Ms. Chinmayee Deulgaonkar, Managing Director at FoodChain ID (SWA). Topic - Certification and accreditation essential		
162	11/08/2021	Raheem Khan, JRF (SSPN), Khemchand Kapgate , RA (Agri-Bot), Dr. Hemant N Rokade, SRF (SSPN), Avinash Kakade, SRF (FPA) NAHEP VNMKV Parbhani Published English Article on "Propagation Media used in Nursery/ Polyhouse" in Ropan Monthly Magazine.	<page-header><text><text><list-item><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></list-item></text></text></page-header>	





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163	12/08/2021	NAHEP-CAAST VNMKV, Parbhani Organized Two Week Online Certificate Course on "Food Processing & Automation" in collaboration with Chamber for Advancement of Small & Medium Businesses (CASMB), Mumbai Day 9] Speaker – Ms. Subhapradha Nishthala, Director Incharge at ITCFSAN President of AFST-Mumbai Chapter Topic - Food safety and quality management	<complex-block></complex-block>
164	13/08/2021	NAHEP-CAAST VNMKV, Parbhani Organized Two Week Online Certificate Course on "Food Processing & Automation" in collaboration with Chamber for Advancement of Small & Medium Businesses (CASMB), Mumbai Day 10] Speaker – Mr. Sukanta Bhattacharyya, Head of Packaging - Packaging Consultant Role at ORAC Lifesciences Pvt. Ltd. Topic - Packaging Technology	<complex-block></complex-block>







Wold 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



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169	21/09/2021	<ol> <li>Day online Workshop</li> <li>Jointly Organizing by IIT</li> <li>Bombay and NAHEP</li> <li>CAAST VNMKV, Parbhani</li> <li>Total Participants: 70</li> <li>eYIC 2021 Hackathon</li> <li>Topic: Articulating</li> <li>Agricultural Problems</li> <li>Speaker:</li> <li>Prof Kavi Arya, IIT</li> <li>Bombay</li> <li>Prof Amit Arora IIT</li> <li>Bombay</li> <li>Prof P. Udmale IIT</li> <li>Bombay</li> <li>4 Dr G. U. Shinde PI</li> <li>NAHEP VNMKV, Parbhani</li> </ol>	
170	27/09/2021	<ol> <li>Day online Workshop</li> <li>Jointly Organizing by IIT</li> <li>Bombay and NAHEP</li> <li>CAAST VNMKV, Parbhani</li> <li>Total Participants: 70</li> <li>eYIC 2021 Hackathon</li> <li>Topic: Articulating</li> <li>Agricultural Problems</li> <li>Speaker:         <ol> <li>Prof Kavi Arya, IIT</li> <li>Bombay</li> <li>Prof Amit Arora IIT</li> <li>Bombay</li> <li>Prof P. Udmale IIT</li> <li>Bombay</li> <li>A Dr G. U. Shinde PI</li> <li>NAHEP VNMKV, Parbhani</li> </ol> </li> </ol>	





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Contact

Dr. Gopal Shinde Principal Investigator NAHEP-CAAST DFSRDA VNMKV, PARBHANI Mob. - 9422111232 Email- nahep.caast.vnmvk@gmail.com

**National Agricultural Higher Education Project** CENTRE OF EXCELLANCE : DIGITAL FAMING SOLUTIONS FOR ENHANCING PRODUCTIVITY BY ROBOTS, DRONES AND AGVS

Vasantrao Naik Marathwada Krishi Vidyapeeth Parbhani, Maharashtra (INDIA) <u>https://nahep.vnmkv.org.in & https://nahep.vnmkv.org.in/fpa/</u>