

Annual Report

2021-2022



Mahatma Phule Krishi Vidyapeeth

Rahuri - 413722, Dist. Ahmednagar (Maharashtra)

www.mpkv.ac.in



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ANNUAL REPORT

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MAHATMA PHULE KRISHI VIDYAPEETH

Rahuri - 413 722, Dist. Ahmednagar (Maharashtra)

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Dr. P. G. Patil
Vice Chancellor,
Mahatma Phule Krishi Vidyapeeth,
Rahuri-413 722, Dist.Ahmednagar



FOREWORD

It gives me an immense pleasure to present an account of the progress of Mahatma Phule Krishi Vidyapeeth, Rahuri for the year 2021-22 in all aspects viz., education, research, extension, administration, civil works, accounts, sports and games and the significant achievements of students in various competitive examinations and the accomplishments of the faculty, scientists and employees. It is the result of the people who have worked to achieve the targets and goals in order that the end beneficiaries augment their income and thereby improve their socio-economic status.

During this report year, 6684 students have successfully completed the Undergraduate, Post-Graduate and Ph.D. degree programmes. During this report year, 18 students excelled in JRF and 7 students excelled SRF, whereas, 124 students qualified ICAR-NET in the disciplines of agriculture and allied sciences. Also, 15 students qualified the ARS preliminary examination-2021 conducted by ASRB, New Delhi. A majority of the students secured scholarships from various agencies. Apart from their wonderful performance in the extra-curricular and co-curricular activities, many students have started their own agri enterprises and majority of the students have joined the Maharashtra Government Services through MPSC and also joined the Private Sector. A few of them have opted for self-employment. MPKV celebrated its 54th Foundation Day in which teachers and scientists were awarded. The 35th Convocation of the University was successfully organized during this report year. In this report year, under CAAST-CSAWM 98 International, National trainings/workshops/webinar/courses were conducted in which 5679 students, 2623 faculties and 488 farmers were benefited.

In the report year the university has released 8 crop varieties of cereals, pulses and cash crops, 2 varieties of horticultural crops, 1 implement and 58 research recommendations at state level for the benefit of farming community. The patent on 'Process of preparation of cookies' has been granted to the University by the patent office, Government of India for 20 years. The University has also initiated a project on 'Indigenous Cattle Research cum Training Centre' in Pune for improvement in breeds of deshi cows and providing the training to entrepreneurs and farmers. Seeds and grafts of various field crops and plantation crops were produced and distributed to the farmers.

Mahatma Phule Krishi Vidyapeeth, Rahuri has been the most credible source of information and farm advisory for the farmers of the region. Therefore, lakhs of farmers visit the Central Campus and other Colleges and Research Stations. The faculty and the scientists of the university guide them through the actual fields and laboratories and convince them regarding the technologies generated by the university for their socio-economic benefit through various programmes and publications. University is implementing innovative extension programmes like ICAR Farmers FIRST, Rabi Day, Krishi Parayan, Model Village, MPKV Idols in MPKV jurisdiction for effective transfer of technology. University has organized 265 different extension programmes under the banner of Azadi ka Amrit Mahotsav. The response of the farmers is quite encouraging and satisfactory.

We duly acknowledge with thanks the guidance and help of His Excellency Hon'ble Governor of Maharashtra and the Chancellor of the university, Hon'ble Minister for Agriculture and Pro-Chancellor of the university, the Director General of Indian Council of Agricultural Research, New Delhi, the Executive Council Members of the University, Academic Council Members of the University and other statutory bodies of the University

(P. G. Patil)





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1. Salient Achievements

Mahatma Phule Krishi Vidyapeeth, Rahuri established on 29th March, 1968 has been a center of human resource development to meet the growing demands of the state as well as the nation for trained man power specialized in Agriculture. This is one of the four Agricultural universities in the state with its jurisdiction spread over Western Maharashtra covering 10 districts, viz., Kolhapur, Sangli, Satara, Solapur, Pune, Ahmednagar, Nasik, Dhule, Jalgaon and Nandurabar.

The unique feature of this University's jurisdiction is that, it has extreme agro-climatic conditions of farming. Four out of the nine agro-climatic zones of Maharashtra fall in this region. These are Western Ghat Zone, Sub-Mountain Zone, Western Maharashtra Plain Zone and Scarcity Zone. The total geographical area distributed among the ten districts of this University is 116.12 lakh ha (37.5 percent of total geographical area of the state). Out of this, 72.45 lakh ha area is under cultivation. The total irrigated area is 13.17 lakh ha (18.17 percent). However, a large area of this University comes under drought prone zone (approx. 80.00 percent of the state). The main objective of MPKV is to co-ordinate Agril. Education, Research and Extension activities.

1.1 Education

Mahatma Phule Krishi Vidyapeeth is imparting education from diploma to doctoral level in the field of Agriculture and Allied faculties through its constituent and affiliated schools and colleges. Some of the salient educational activities and achievements are as given below-

• Major Events Celebrated

All the events were organized either virtually or offline by following COVID-19 protocols.

1. **Mahatma Phule Jayanti** was celebrated on April 11, 2021 at various constituent colleges and Central Campus, MPKV, Rahuri.
2. **Bharatratna Dr. Babasaheb Ambedkar Jayanti** was celebrated on April 14, 2021 at various constituent colleges and Central Campus, MPKV, Rahuri.
3. The **International Day of Yoga** was observed on June 21, 2021 at various constituent and affiliated colleges under the jurisdiction of MPKV, Rahuri.
4. **Massive Tree Plantation Programme** was conducted during July 01-07, 2021 as **Krishidin** and **Vanmahotsav** at all constituent colleges under the ambit of university. At Central Campus, MPKV, Rahuri **Vanmahotsav** was organized under Chairmanship Hon'ble Vice Chancellor, Dr. P. G. Patil in special presence of Hon'ble Shri. Hasan Mushrif, Rural Development and Labour Minister, Government of Maharashtra and Hon'ble Padmashree Shri. Popatrao Pawar, President of Adarsh Gaon Yojana.
5. **Teachers Day** was celebrated on September 05, 2021 at various constituent and affiliated colleges under the jurisdiction of MPKV, Rahuri.
6. **The Constitution Day** was celebrated at Central Campus, MPKV, Rahuri and all the constituent colleges on November 26, 2021.
7. **Mahatma Jotiba Phule Punyatithi** was celebrated on November 28, 2021 at Central Campus, MPKV, Rahuri and all the constituent colleges.
8. **Agricultural Education Day** was celebrated on December 03, 2021 at various constituent and affiliated colleges under the jurisdiction of MPKV, Rahuri to attract the talent, building strong agricultural base and create awareness among the students and parents regarding the agricultural



education. The resource person invited as a guest speaker from the agricultural and allied fields guided more than 3000 students.

9. **The Birth Anniversary of Chattrapati Shivaji Maharaj** was enthusiastically celebrated on February 19, 2022 in the university.
10. Other activities *viz.*, **Republic Day, Maharashtra Din** and **International Labour Day** and **Independence Day** were celebrated.

● Major Events organized

1. Indian Council of Agricultural Research, New Delhi and World Bank aided National Higher Agricultural Education Project jointly organized online inaugural function of Virtual Classroom on April 26, 2021 at the auspicious hands of Hon'ble Shri. Naredra Singh Tomar, Minister of Agriculture & Farmers Welfare, Rural Development and Panchayat Raj, Government of India. On this, occasion Hon'ble Shri. Purushottam Rupala, State Minister of Agriculture & Farmers Welfare; Hon'ble Dr. Trilochan Mohapatra, Secretary, Department of Agricultural Research and Education and Director General, Indian Council of Agricultural Research; Hon'ble Shri. Sanjay Kumar Singh, Secretary, Indian Council of Agricultural Research; Hon'ble Dr. R. C. Agrawal, National Director, National Higher Agricultural Education Project and Deputy Director General (Agril. Education), Indian Council of Agricultural Research; Hon'ble Dr. P. G. Patil, Vice Chancellor, MPKV, Rahuri and Hon'ble Dr. Prabhat Kumar, National Co-ordinator, National Higher Agricultural Education Project were present online.
2. **COVID-19 Vaccination Centre** for University staff at Central Campus, MPKV, Rahuri was inaugurated at the auspicious hands of Hon'ble Vice Chancellor, Dr. P. G. Patil on July 16, 2021.
3. On the eve of 75th Independence Day under Fit India Mission Fit India Freedom Run 2.0 Mini Marathon was organized at Central Campus, MPKV, Rahuri on August 14, 2021 in presence of Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri.
4. **52nd Foundation Day of National Service Scheme** was celebrated on September 24, 2021 at various constituent colleges through online/offline mode.
5. Inaugural function of "Rajmata Vijayaraje Sindhia Girls Hostel" at RCSM, College of Agriculture, Kolhapur was organized on September 26, 2021 at the hands of Hon'ble Shri. Dadaji Bhuse, Minister for Agriculture and Ex. Servicemen Welfare, Government of Maharashtra alias Pro Chancellor, MPKV, Rahuri; Hon'ble Mr. Prakashji Abitkar, Vice President, Maharashtra Council of Agricultural Education and Research, Pune; Hon'ble Shri. Chandrakantdada Patil, MLA, Pune and in the presence of Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri and other dignitaries. This hostel was constructed through CSR Fund of Rs.1.80 crores provided by Bhaskaracharya Pratisthan, Kolhapur. This hostel consists 36 rooms accommodating 135 girl students.
6. **Women Farmer's Day** was organized at College of Agriculture, Dhule on October 21, 2021 in presence of Hon'ble Shri. Dadaji Bhuse, Minister for Agriculture and Ex. Servicemen Welfare alias Pro Chancellor, MPKV, Rahuri.
7. **35th Convocation** Ceremony of Mahatma Phule Krishi Vidyapeeth, Rahuri has been organized on October 28, 2021 at Central Campus, MPKV, Rahuri and other colleges individually due to COVID-19 restrictions. His Excellency Shri. Bhagat Singh Koshyari, Governor of Maharashtra



and Chancellor of MPKV, Rahuri presided over the convocation ceremony. Guest of Honour was Shri. Dadaji Bhuse, Hon'ble Pro-Chancellor of MPKV, Rahuri & Minister, Agriculture and Ex. Servicemen Welfare, Government of Maharashtra. Chief Guest was Dr. Narendra Singh Rathore, Hon'ble Vice Chancellor, Maharana Pratap University of Agriculture and Technology, Udaipur.

- During 35th Convocation Ceremony of University, Doctor of Science (D. Sc.) degrees were conferred upon Hon'ble Shri. Sharadchandraji Pawar, Member of Parliament, Rajya Sabha and Hon'ble Shri. Nitinji Gadkari, Minister for Road, Transport and Highways, Government of India.
 - Total 11,468 degrees were conferred upon students during the 35th Convocation
8. 51st Flower Show was jointly organized by Horticulture Section, RCSM College of Agriculture, Kolhapur and Gardens Club, Kolhapur at RCSM College of Agriculture, Kolhapur during December 24-25, 2021. The show was inaugurated at the hands of Dr. Kadambari Balkawade, Hon'ble Commissioner, Municipal Corporation, Kolhapur.
 9. College of Agriculture, Dhule and Shri. Bhausaheb Hire Medical College, Dhule jointly organized **Blood Donation Camp** at College of Agriculture, Dhule on January 26, 2022. Faculty, staff and student participated in camp. Total 75 blood bottles were collected.
 10. During 2021 under COVID-19 situation National Service Scheme volunteers of RCSM College of Agriculture, Kolhapur carried out various activities such as distribution mask, ration; vaccine awareness drives, blood donation and conducted the classes for small kids.

• Examination system reforms under COVID-19

Rajarshi Chhatrapati Shahu Maharaj College of Agriculture, Kolhapur has developed www.agrioes.in web based examination portal and conducted semester end online examinations of University successfully during the year 2021-22.

• Capacity Building

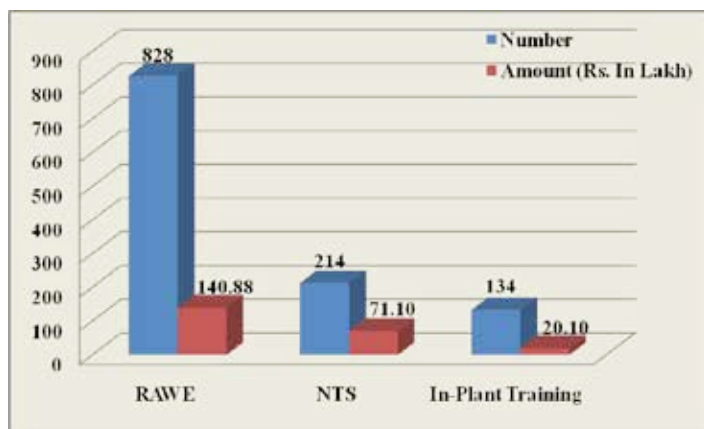
Under capacity building programme, **316 faculty members** and **21 students** proceeded for Winter School / Summer School / Refresher Courses, National / International Conference / Seminars / Conclave / Symposia through online or offline mode during the year 2021-22.

• Workshops/Seminar/Trainings Organized

1. Six months training programme on ‘Protected Cultivation of Flowers and Vegetables’ for Agri. Diploma students was organized by College of Horticulture, Pune.
2. Sixteen training programmes on various aspects of agriculture and allied fields under SC-SP Plan were conducted at College of Agriculture, Dhule with more than 450 beneficiaries.
3. Twenty-three training programmes (online/offline) on various aspects of agriculture and allied fields were conducted at Post Graduate Institute, MPKV, Rahuri with 3200 beneficiaries.
4. Thirty-five training programmes on various aspects of agriculture and allied fields were conducted at College of Agriculture, Dhule with 1340 beneficiaries.



- **Students Development**
- **Student READY/NTS Beneficiaries**



- **Students Achievements in JRF/SRF/NET/Competitive Exams/Others**

- 18 and 7 students qualified ICAR's PGS-2020 Exam as JRF and SRF, respectively.
- 44 Post Graduate and 80 Ph. D. students from MPKV, Rahuri qualified ICAR NET -2021.
- 11 and 04 students of Faculty of Agriculture and Agril. Engineering, respectively qualified the ARS Preliminary Examination-2021 conducted by ASRB, New Delhi.
- The NSS volunteer, Shri. Aniket Wakle, College of Agriculture, Pune bagged the Best Volunteer Award for the year 2020-21.
- Miss. Akshata Adinath Annadate, student of Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon received Prestigious National Award for Marathi Language Film entitled 'SHETI' in MANAGE Agri. Film Festival-2022 on March 11, 2022.

- **Memorandum of Understandings**

S. N.	Name of the Organization	Year of Signing	Purpose
1	AgMatrix Consultancy Private Limited, Pune	August 16, 2021	Students training and skill development
2	FMC India Private Limited, Mumbai	April 21, 2022	Fellowship for Post-graduate students research

- **Awards and recognition**

- **A)Faculty**

- Dr. U. D. Chavan, Professor and Head, Food Science and Technology, MPKV, Rahuri selected for Fellow Membership (FSASS) of Scholars Academic and Scientific Society of India for the year 2021.
- Dr. Milind Ahire, Head, Agricultural Extension and Communication and Associate Dean, PAH College of Agriculture, Halgaon honored with the Dr. G. S. Student Award of Indian Society of Extension Education 2021 with the auspicious hands of Hon'ble Minister of State for Social Justice, Uttar Pradesh Shri. Ravindra Jayaswal; Dr. A. K. Singh, Hon'ble Deputy Director General (Agril. Extension); Dr. U. S. Gautam, Hon'ble Vice Chancellor, Banda University of Agriculture and Technology, Banda and President ISEE at Banaras Hindu University, Varanasi, Uttar Pradesh on October 06, 2021.
- Dr. U. S. Surve, Professor of Agronomy, Post Graduate Institute, MPKV, Rahuri elected as a Counsellor for Indian Society of Agronomy for two years (2022-2024).
- Dr. T. B. Bastewad, Professor and Principal

Investigator of AICRP on Farm Implements and Machinery, Dr. ASCAE&T, MPKV, Rahuri has been awarded Indian Icon Award-2021 on December 27, 2021 by National Human Rights Organization during Human Rights Workshop at New Delhi.

- Dr. S. D. Patil, Associate Professor of Agril. Extension, College of Agriculture, Dhule awarded with the Young Scientist Award of Indian Society of Extension Education 2021 with the auspicious hands of Hon'ble Minister of State for Social Justice, Uttar Pradesh Shri. Ravindra Jayaswal; Dr. A. K. Singh, Hon'ble Deputy Director General (Agril. Extension); Dr. U. S. Gautam, Hon'ble Vice Chancellor, Banda University of Agriculture and Technology, Banda and President ISEE at Banaras Hindu University, Varanasi, Uttar Pradesh on October 06, 2021.
- Dr. S. D. Patil, Associate Professor of Agril. Extension, College of Agriculture, Dhule; Dr. U. S. Surve, Professor of Agronomy, Post Graduate Institute, MPKV, Rahuri; Dr. A. B. Jadhav, Assistant Professor of Soil Science, College of Agriculture, Pune and Dr. A. B. Bagade, Assistant Professor of Agril. Entomology, RCSM College of Agriculture, Kolhapur awarded with the ICAR Best Teacher Award- 2022 during 54th University Foundation Day ceremony held on March 29, 2022.
- Dr. Milind Ahire, Head, Agricultural Extension and Communication and Associate Dean, PAH College of Agriculture, Halgaon was elected on Editorial Board of Indian Research Journal of Extension Education of Extension Education Society, Agra for the period of three years on

April 06, 2022.

- Dr. U. D. Chavan, Professor and Head, Food Science and Technology, MPKV, Rahuri was honoured at the auspicious hands of His. Excellency Shri. Bhagat Singh Koshyari, Governor of Maharashtra with certificate of patent granted to university for production of cookies during celebration of World Intellectual Property Day held at Raj Bhawan, Mumbai on April 26, 2022.

B) Institute

- Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management (CAAST-CSAWM), MPKV, Rahuri ranked first among all CAAST projects of National Agricultural Higher Education Project in India (2021-22).
- ICAR, New Delhi honored University Library for the Best Profile Registration Award for Western Region for active promotion and usage of the J-Gate and CeRA platform (2021).
- MBA (Agri.) Programme at College of Agriculture, Pune and Agricultural Technical School, Solapur achieved ISO: 9001: 2015 Certification for its Quality Management System for the period of three years (2019 to 2022).
- College of Agricultural, Pune Dispensary was honored with ISO: 9001:2015 Certification for its Good Health Practices for the period of three years (November 01, 2019 to October 31, 2022).
- **New Constituent College/Agriculture Polytechnic Sanctioned**
 - Government of Maharashtra sanctioned new



constituent College of Food Technology at Kashti, Tal. Malegaon, Dist. Nashik from the academic year 2021-22.

- Government of Maharashtra sanctioned new constituent Agriculture Polytechnic at Kashti, Tal. Malegaon, Dist. Nashik from the academic year 2021-22.

• New Academic Programme

- Center for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM) under NAHEP-ICAR has started the Post-Doctoral programme.

• Sport Activities

A. Students: University team participated in various sport tournaments at national level.

Sport	Event	Venue of Programme	Date / Period	Participants		
				Male	Female	Total
All India University Sport	Basket Ball (M)	Jiwaji University, Gwalior, Madhya Pradesh	March 6-10, 2022	12	-	12
	Wrestling (M)	Chaudhary Bansi Lal University, Bhiwani, Haryana	March 7-10, 2022	10	-	10
	Weight Lifting and Best Physique (M)	Chandigarh University, Mohali, Punjab	March 8-12, 2022	13	-	13
	Kho-kho (M)	Dr. Hari Singh Gour University, Sagar, Madhya Pradesh	March 8-12, 2022	12	-	12
	Kho-kho (W)	Veer Narmad South Gujarat University, Surat, Gujarat	March 10-13, 2022	-	12	12
	Chess (M)	Vivekananda Global University, Jaipur, Rajasthan	March 23-30, 2022	6	-	6

A. Staff: University staff team participated in State Agricultural Inter University Staff Sport-2022 in various events held at Dr. Balasaheb Sawant Kokan Krishi Vidyapeeth, Dapoli during March 1-3, 2022.

Sport	Venue of Programme	Date / Period	Event
State Agricultural Inter University Staff Sport	Dr. Balasaheb Sawant Kokan Krishi Vidyapeeth, Dapoli	March 1-3, 2022	Kabaddi (M)
			Basket Ball (M)
			Table Tennis (M)
			Volleyball (M)
			Chess (M)
			Badminton (M)
			Athletics (M) 200/400 m
			Athletics (M) 800 m
			Singing (M)
			Table Tennis (W)
			Chess (W)
			Badminton (W)
			Athletics (W) 200 m
			Rangoli (W)
Tug of war (W)			

In this tournament, university staff team secured prizes in following events

A. Team event

Event	Position
Table Tennis (M)	Winner
Kabaddi (M)	Runner-up
Basket Ball (M)	Runner-up
Chess (W)	Runner-up

B. Individual event

Event	Name of staff	Position
200 & 400 m Run (M)	Dr. R. D. Bansod	Winner
800 m Run (M)	Shri. Sharad Shirsat	Runner-up
200 m Run (W)	Mrs. Kavita Jadhav	Runner-up
400 m Run (W)	Mrs. Maya Thorat	Runner-up
Singing (M)	Dr. J. H. Gaikwad	Runner-up

1.2 Research

1. The University has released 10 new varieties i.e. Sorghum (Phule Yashomati), Wheat (Phule Anupam), Safflower (Phule Gold), Safflower (Phule Kiran), Sesamum (Phule Purna), Urdbean (Phule Vasu), Soybean (Phule Durva), Sugarcane (Phule 11082), Guava (Phule Amrut) and Tamarind (Phule Shrivani).
2. The University has released one Agri. Farm Implement - Tractor operated Phule automatic reversible MB plough.
3. The University has passed 58 recommendations on various aspects for the benefit of the farming community.
4. The University has produced 20697 quintals of seed.
5. A total of 13.22 lakh planting material of fruit crops and ornamental plants was produced by University.

6. A total of 878 litres and 80.30 MT of biopesticides and 43.28 MT and 10,334 litres of biofertilizers and 28,000 litres of micronutrients were produced by various centers of the University.

1.3 Extension Education

1. About 934 training programmes for farmers, farm youth, farm women, staff of development departments and interaction training programme between farmers and scientists were organized by the Regional Extension Centres, District Extension Centres, Agri. Research Stations and Krishi Vigyan Kendras.
2. A total of 83 monthly district workshops were organized and 2075 were the beneficiaries.
3. A total of 389 method demonstrations, 631 Result demonstrations, 870 Front line demonstrations were conducted and 5325 farmers were benefitted from these demonstrations.
4. During the year different 1372 group discussions, meetings, field visits / shivar pheries, field days, Farm and Home visits, Farmers rallies, Agril. Exhibition, Study tours were organized for promoting agricultural technologies to the end users.
5. Diagnostic and surveillance team has visited 484 places to guide the farming community.
6. Different publications viz., Krishi Darshani (10000), Shri Sugi (2000), Folders (20), booklets, MPKV e-Varta were published by the University and made available to the end users.
7. The University scientists attended 41695 Help line calls and guided the farmers on major issues.
8. In the annual year 3015 water and soil samples, 217 pests samples, 319 diseases samples were tested by the University scientists along with necessary guidance.
9. Total 156500 farmers were given advisory through SMS.



2. Education

Mahatma Phule Krishi Vidyapeeth, Rahuri is the first State Agriculture University in Maharashtra established in 1969 having its jurisdiction in 10 districts of Western Maharashtra. Director of Instruction shoulders the responsibility of leading the education of the university. Director of Instruction is responsible for preparing the academic programme as regards to courses offered, curricula and co-ordinate and guide education, in all the constituent and affiliated colleges, technical schools of the university in close co-operation with the Deans of Faculties, Head of Departments and other officers.

The mandate is to provide Diploma, Graduate, Post-Graduate and Doctorate level quality education in agriculture and allied disciplines for skill development and producing the competent human resource.

Quality Education for Competent Graduates

The University offers various educational programmes viz., Bachelors Degree Programme in Agriculture, Horticulture, Agriculture Engineering, Food Technology, Agri-Business Management, Biotechnology, Diploma in Agriculture Technology and Masters degree programme in 21 disciplines of Agriculture and 4 disciplines of Agriculture Engineering and Doctoral degree programme in 17 disciplines of Agriculture and 04 disciplines of Agriculture Engineering.

There is a Post-Graduate Institute at the Central Campus, Rahuri for M.Sc. and Ph.D. programmes. There are also seven Colleges of Agriculture at Pune, Kolhapur, Dhule, Nandurbar, Karad, Muktainagar and Halgaon for B.Sc. (Hons) Agriculture. MPKV has one College of Horticulture at Pune for B.Sc. (Hons) Horticulture, one each College of Agri.

Business Management and Food Technology at Kashti, Malegaon for B.Sc. (Hons) Agri. Business Management and B.Tech (Food Technology) and one College of Agricultural Engineering at Rahuri for B.Tech. (Agril. Engg.), M.Tech. (Agril. Engg.) and Ph.D. programmes. The Post-graduate programme is also started at College of Agriculture, Pune, Dhule and Kolhapur leading to M.Sc.(Agri.) degree and Ph.D. programme in Agril. Meteorology at College of Agriculture, Pune. The new PG degree course in Agricultural Business Management i.e. M.B.A. (Agri.) has started at College of Agriculture, Pune.

Educational Programmes

2.1 Bachelor's Degree Programme

University has eleven Under Graduate Constituent Agriculture and Allied Colleges with intake capacity of 924 students and 62 affiliated unaided Agriculture and Allied Colleges with intake capacity of 4700 students.

B. Sc. (Hons) Agriculture

B.Sc. (Hons) Agriculture is a four-year degree programme spread over 8 semesters with 183 credit load. Total 143 course credits of B.Sc. (Hons) Agriculture degree has to be completed by the student upto first six semesters. In seventh semester, student has to participate in the Rural Agricultural Work Experience (RAWE) & Agro-Industrial Attachment programme of 20 credits, which exposes students to the rural life and farming situations and the constraints in adoption of modern technology by the farmers. In eighth semester, Experiential Learning programme is implemented under which the students undergo Hand-on-Training (HoT) in any two modules of 10 (0+10) credits. Under this university, seven constituent colleges and twenty-seven affiliated agricultural colleges offer B.Sc. (Hons) Agriculture degree programme.



B. Sc. (Hons) Horticulture

B.Sc. (Hons) Horticulture is a four-year degree course spread over 8 semesters. The total credit requirement for the B.Sc. (Hons) Horticulture degree Course is 182. In seventh and eighth semester Students READY (RHWE) programme is offered in order to place the students in the industry. It is implemented in one constituent college and five affiliated horticultural colleges of the university.

B. Tech. (Agril. Engg.)

B. Tech. (Agril. Engg.) degree programme is a four year year degree programme spread over 8 semesters with 183 credits. Students READY (RHWE) programme is implemented through In- Plant Training (0+10 credits), Industrial Attachment (0+10 credits), Experiential Learning (0+10 credits), Project Planning & Report Writing (0+10 credits) and Seminar (0+1 credits). This programme is offered at one constituent and eight affiliated colleges of the university.

B. Sc. (Hons) Agril. Business Management

B. Sc. (Hons) Agril. Business Management degree programme is a four year degree programme spread over 8 semesters. It is specially designed by considering all the best courses of various institutes and incorporating the requirements of agricultural sector in general and that of management aspects in particular. It is expected that pass outs will be able to deliver their expertise in financial marketing and management skills in Agriculture. Out of total 180 credits, 140 course credits has to be completed upto sixth semester. In seventh semester, 20 credits are recommended for any two module of 10 (0+10) credits Experiential Learning. In eighth semester, students are offered 20 credits for In-plant Training. The programme is implemented at one constituent and nine affiliated colleges of the University.

B. Tech. (Food Technology)

B. Tech. (Food Science and Technology) is a four year degree programme spread over 8 semesters. Out of total 183 credits, 145 course credits has to be completed upto sixth semester. In seventh semester 18 (3+15) credits are recommended for Students READY which includes Experiential Learning modules I & II of 7 (0+7) credits each and 4 (0+4) credits for Research Project & Seminar. In eighth semester, Students READY-In-plant training for 20 weeks in food industries / Institutes for 20 (0+20) credits is offered to the students.

The basic objective is to provide the skilled manpower for commercial food processing unit, R and D organizations, research and education institutes and quality control departments and to generate self employment opportunities to the youth in setting up of food processing units. The programme is implemented at one constituent and seven affiliated colleges of the university.

B. Tech (Biotechnology)

B. Tech (Biotechnology) is a 4 year degree programme spread over 8 semesters having 186 credits. Biotechnology is integrated with various disciplines. This UG programme comprises four departments like Animal Biotechnology, Plant Biotechnology, Microbial & Environmental Biochemistry and Bioinformatics.

In VII semester Students READY- Experiential Learning Programme of 20 (0+20) credits is offered for specialized skill development. During VIII semester Student READY- Project Formulation & Entrepreneurial Development in Biotechnology (on/off campus) of 20 (0+20) credits is offered. There are six affiliated Biotechnology colleges under MPKV, Rahuri for developing human resource.



2.2 Master's Degree Programme

The University offers Master Degree at Post Graduate Institute, Rahuri, College of Agriculture, Pune, Kolhapur and Dhule; and Dr. A. S. College of Agricultural Engineering & Technology at Rahuri with an intake capacity of 373 students per year.

M. Sc. (Agri.) / M. Sc. (Hort.) / M. Sc. (Agril. Biotechnology) / M.B.A. (Agri.) / M. Tech. (Agril. Engg.)

The M.Sc (Agri) degree programme is a two years residential programme spread over 4 semesters. The credit load for the course is 55. Out of this, 35 credits are allocated for course work in which a student has to learn different courses appropriate to his specialization. The course work is split in the Major subjects (20 credits), Minor subjects (09 credits), Supporting subject (05 credits), Seminar (01 credit). It has total 35 credits. In addition, six non-credit compulsory courses are allotted. For dissertation, 20 credits are allocated for research project. Each student has an advisory committee, which assists the students in selection of courses and the research topic. The student has to undertake a field research experiment and submit the dissertation as partial requirement for the award of the degree. The intake capacity of students for M. Sc. (Agri.) Degree is 179 at Post Graduate Institute, MPKV, Rahuri, 96 at College of Agriculture, Pune, 54 at College of Agriculture, Kolhapur & 28 at College of Agriculture, Dhule. The intake capacity for M. Tech. (Agril. Engg.) at Dr. AS College of Agril. Engineering and Technology, Rahuri is 16.

2.3 Doctoral Degree Programme

The Post Graduate Institute and Dr. A. S. College of Agricultural Engineering & Technology, Rahuri offer the Doctoral level programmes in agricultural

science and engineering, respectively with an intake capacity of 82 students per year.

Ph. D. (Agriculture and Agricultural Engineering)

The Ph.D. degree programme is of three years with residential requirement spread over six semesters. The credit requirement for the course is 75; out of which 30 credits are for course work and 45 credits for research work. The course work is split into Major subjects (15 credits), Minor subjects (08 credits), Supporting subjects (05 credits), Seminar (02 credits), thus making the 30 credits. In addition, six non-credit compulsory courses are allotted. Research is the main component of Ph.D. degree programme where student has to undertake appropriate need based research by way of conducting field experiments or collection of data or both to fulfill his research objectives. Two experts from any of the SAUs in India independently evaluate the Ph.D. Dissertation. Each student has an advisory committee, which assists the student in the selection of courses and the research topic. The intake capacity of students for Ph.D Degree programme in Agriculture is 68 at Post Graduate Institute, MPKV, Rahuri & 02 at College of Agriculture, Pune. The intake capacity of students for Ph.D Degree programme in Agricultural Engineering at Dr. AS College of Agril. Engineering and Technology, Rahuri is 12. In addition, in-service candidates are allotted admission for Ph.D. degree programme.

2.4 Diploma

University offers Diploma in Agriculture Technology through its nine constituent and seventy-seven affiliated Agricultural Technical Schools with intake capacity of 60 students per year. Further, three years six semester english medium Agriculture Polytechnic Diploma is offered with intake capacity of 40 students.



2.5 Certificate Course

University also offers Gardeners (Mali) Training Course of one year duration through its two constituent and three affiliated centers with annual intake of 40 students. Further, certificate course on Polyhouse Technology of six months duration is offered at High-Tech Floriculture Project, College of Agriculture, Pune

Faculty

There are two faculties to impart Agriculture education in this university namely

- Faculty of Agricultural Science
- Faculty of Agricultural Engineering

Faculty of Agricultural Science

Faculty of Agricultural Science is one of the faculties of the University. This faculty comprises of various 14 departments viz., Agricultural Botany, Agricultural Economics, Agricultural Entomology, Agricultural Extension & Communication, Agricultural Meteorology, Agronomy, Animal Husbandry and Dairy Science, Biochemistry, Food Science and Technology, Horticulture, Irrigation Water Management, Plant Pathology and Agricultural Microbiology, Soil Science and Agricultural Chemistry and Statistics.

The responsibility of this faculty is to implement the academic programmes viz., Under graduate [B.Sc. (Hons) Agriculture, B.Sc. (Hons) Horticulture, B.Sc. (Hons) ABM, B. Tech. (Agricultural Engineering), Post-Graduate (M.Sc. (Agri.) and Ph.D.), and Diploma in Agriculture (Agricultural Technology).

Faculty of Agricultural Engineering

Faculty of Agricultural Engineering comprises 5 departments viz., Agricultural Process Engineering, Farm Machinery and Power Engineering, Farm

Structure and Rural Electrification, Irrigation and Drainage Engineering and Soil and Water Conservation Engineering.

This faculty is responsible for the various academic programmes viz., Under graduate [B.Sc. (Hons) Agriculture, B. Tech. (Agricultural Engineering)], Post-Graduate [M.Tech. (Agril. Engg.) and Ph.D.]. The faculty of Agricultural Engineering meets the educational needs in various fields viz., micro irrigation technologies, polyhouse, drainage engineering, groundwater, wells and pumps, soil and water conservation, watershed management, grain, fruit and vegetable storage and processing, unconventional energy sources, tractors, farm machinery and implements, computer applications, remote sensing and GIS.

Constituent Colleges

The University has eleven constituent colleges out of which seven colleges of agriculture sciences located at Pune, Kolhapur, Dhule, Nandurbar, Karad, Muktainagar and Halgaon; one agricultural engineering college at Rahuri; one college for horticulture at Pune and one each agriculture business management and food technology college at Kashti, Malegaon. The University has the Post Graduate Institute at its Central Campus of Rahuri.

College of Agriculture, Pune



As a historical College, it is one of the first five agricultural colleges established in India, celebrated its centenary year in 2007. It has an annual intake capacity of 190 students for UG programme. Post-Graduate programme started in 1984. The intake capacity of M.Sc. (Agri), M.Sc. (Horti.) and MBA (Agri.) is 60, 6 and 30 respectively. Ph.D programme is offered in Agriculture Meteorology with an intake capacity of two students per year.

It offers PG degree programme in various subjects along with the recently started MBM (Agri.) degree. The college has national, international, renowned projects like a Hi-tech Floriculture Project, All India Coordinated Bio-control Project, Centre for Advanced Studies in Agro-meteorology, Biological Nitrogen Fixation Scheme, Agri-clinic and Agri-business Training Centre, All India Coordinated Mushroom Improvement Project, Fish & Prawns Farming Unit, Medicinal & Aromatic Plants Project and a well equipped nursery.

College of Agriculture, Dhule



It is located at the northern district of Western Maharashtra region. Established in the year 1960 it has an annual intake capacity of 128 students for UG programme. Post-Graduate programme was started from the year 2009-10. The intake capacity of M.Sc. (Agri) and M.Sc. (Horti.) is 24 and 4, respectively.

The college serves as a regional research centre for the northern part of the Maharashtra, with a focus on research on dry farming, cotton and groundnut. It has the units viz., Vermi compost, bio-fertilizers, bio-pesticides, Soil and Irrigation Water Analysis Lab, Organic Farming demonstration unit, Seed Production, Horticultural Nursery, Cattle, Sheep and Goat units, Watershed Field demonstration units, Irrigation Systems Demonstration plot etc.

Rajarshi Chhatrapati Shahu Maharaj College of Agriculture, Kolhapur



Kolhapur, the southernmost district town of Maharashtra State is one of the agriculturally advanced districts of the country with an excellent network of agro based industries and co-operative organizations. It is located on the Pune Bangalore National Highway and established in the year 1963. It was initially affiliated to the Shivaji University, Kolhapur. Subsequently it became the constituent college of the University in 1969. The college has celebrated its Golden Jubilee in the year 2013. Later, college is renamed as Rajarshi Chhatrapati Shahu Maharaj College of Agriculture in 2017. This college has annual intake capacity of 190 students for UG programme. It offers PG degree programme in various subjects. Post-Graduate programme was started from the year 2009-10. The intake capacity of M.Sc. (Agri) and M.Sc. (Horti.) is 48 and 6, respectively.

This college has projects such as Vermicompost, Bio-fertilizers, Bio-pesticides, Phule soft drinks, Soil and Irrigation Water Analysis Lab. One time controlled land application of Spent Wash, Fruit Crop Nursery for supply of seedlings and crop seeds, Soil and Water Engineering Field Laboratory are setup to aid students for learning.

College of Agriculture, Karad



College of Agriculture, Karad was established on the occasions of Birth centenary year (2013) of Hon. Ex-Chief Minister of Maharashtra Late Yashwantraoji Chavan. It started from the year 2013-14 with the intake capacity of 60 students. This college offers degree programme in B.Sc. (Hons) Agriculture. The College has newly established Administrative building, Library, Boys' and Girls' hostels, Students Amenity Complex, Playground and Instructional Farm.

College of Agriculture, Nandurbar



As per the initiatives and decision taken by Government of Maharashtra to establish Government Agriculture College in Scheduled Tribes populated districts (i.e. Nandurbar & Gadchiroli) under Tribal Sub

Plan Scheme, Government of Maharashtra Resolution dated 19th June, 2013 and University Resolution dated 06/08/2013 Government College of Agriculture, Nandurbar started on August 1, 2013. 80 % seats are reserved for Scheduled Tribes students.

This college offers degree programme in B.Sc. (Hons) Agriculture with an annual intake capacity of 60 students per year. It has newly established Administrative building, Library, Boys' and Girls' hostels, Students Amenity Complex, Playground and Instructional Farm.

College of Agriculture, Muktainagar

The College of Agriculture, Muktainagar is the newly established in 2015. The academic programme for B.Sc. (Hons) Agri degree course was started during the year 2015-16 with intake capacity of 60 students. The college offers degree programme in B.Sc. (Hons) Agriculture.

Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon

It was started from the academic year 2018-19 with an annual intake capacity of 60 students per year. It offers under graduate B.Sc. (Hons) Agriculture degree programme.

College of Horticulture, Pune



The college was established in the campus of College of Agriculture, Pune in 1984. The annual

intake capacity is 32 students. The college has its own building with well-developed classrooms, laboratories, LAN, computer & internet facilities.

College of Agriculture Business Management, Kashti, Malegaon

It was started from the academic year 2020-21 with an annual intake capacity of 40 students per year. It offers under graduate B.Sc. (Hons) Agriculture Business Management degree programme.

College of Food Technology, Kashti, Malegaon

The College of Food Technology, Kashti, Malegaon was started from the academic year 2021-22 with an annual intake capacity of 40 students per year. It offers under-graduate B. Tech. (Food Technology) degree programme.

Dr. Annasaheb Shinde College of Agricultural Engineering & Technology, Rahuri



The college was established in 1969 after realizing the need for agricultural engineers for soil conservation, irrigation management, farm mechanization and post-harvest processing. In 1996, the college was named after the former Union Minister of State for Agriculture and the architect of green revolution in India, Late Dr. Annasaheb Shinde. The college offers the UG programme in Agril. Engg. with intake capacity of 64 and PG programme with intake capacity of 16 in four

different disciplines. Dr. A. S. College of Agril. Engg. has recently started the Ph.D. in Agril. Engineering in the disciplines viz., Agril Process Engineering, Irrigation & Drainage Engineering and Soil Water Conservation Engineering.

In addition to the academic programmes, the faculty has the following ongoing projects. All India Coordinated Research Project on Utilization of Groundwater through Wells and Pumps; Precision Farming Development Centre, AICRP on Farm Implement and Machinery, Remote Sensing Laboratory, and the Tractor Training Laboratory. The programme is implemented at eight affiliated colleges of the university.

Post Graduate Institute



The Post Graduate Institute was established in 1972 to meet the higher educational needs of agriculture in the State. At present the Post Graduate Institute offers Master and Doctoral degree Programme in 18 and 17 disciplines of Agriculture Faculty, respectively. The intake capacity of Master's and Doctoral programme is 179 and 68 respectively.

Each discipline of PG Institute is provided two classrooms with interactive smart classroom solution for teaching to Master and Doctoral degree programme students. In addition to classrooms, almost each discipline has well equipped Seminar hall to conduct presentation of student's seminar, group discussions

etc. The Post Graduate Institute has an instructional farm spread over 56.21 ha. and is exclusively used for research activities of students. The students also have access for research on horticultural farm, medicinal and aromatic plants farm and irrigation water management farm. Each department has well equipped laboratories. In addition to these, the ultra modern facilities of

following centers are available to student's research: Biotechnology Research Centre, All India Network Project on Pesticide Residue, Micronutrient Research Scheme, Post-Harvest Technology Laboratory, Bio-fertilizer Laboratory, Frozen Semen Laboratory, Biological Control Laboratory, Bakery Unit.

Affiliated Colleges

Mahatma Phule Krishi Vidyapeeth, Rahuri realized the need and demand for more trained human resource in agriculture and accordingly provided affiliation to 62 colleges in the faculty of agriculture and allied science. These colleges offer various undergraduate degree programs in the faculty of agriculture.

Sr. No.	Stream	Number of Colleges	Intake Capacity
1	Agriculture	27	2820
2	Horticulture	05	240
3	Agricultural Engineering	08	440
4	Food Technology	07	400
5	Biotechnology	06	360
6	Agril. Business Management	09	440
Total		62	4700

University Library



The University Library, MPKV, Rahuri started functioning at Central Campus in the year 1971. Since its inception the library has developed tremendously under the Chairmanship of Library Advisory Committee and playing pivotal role in providing scientific and technological information to the students, teachers and scientists of both faculties i.e. Faculty of Agriculture and Faculty of Agricultural Engineering, as well as progressive farmers since last forty seven years. In this age of information technology, tremendous changes have taken place in library services.

Now a days University Library is rendering IT based services such as Internet, Retrieval of CD ROM Databases, e-mail, e-journals, online consortia (CeRA) etc along with conventional ones. The library has been equipped with digitization, e-resources, e-journals, Library Management software etc.

Library Budget

The University Library, Rahuri received the grants

of Rs. 57.38 lakh for salary and Rs. 8.95 lakh for contingent expenditure and University fund of 13.00 lakh 1st installment, 15.00 lakh 2nd installment and 3.00 lakh 3rd installment from the ICAR grants New Delhi. This library received total grants of Rs. 92.33 lakh during the year under report.

Acquisition of Books and Journals

During the year under report the library received 283 books, 44 e-books, 1291 theses, 40 back volume, thus making total collection of 1, 15,138 as on March 31, 2022. The library is also receiving 14 journals against exchange of Journal of Maharashtra Agricultural Universities and 40 journals on gratis.

Library Services

- Open access
- Lending of Books for home reading
- Inter Library Loan facility
- Photocopying services
- Reading Hall facility

Internet services

- CD ROM Databases
- CeRA (Consortium of e-Resources in Agriculture)
- E-journals, On-line E-journals
- Statistical Database
- Viewing Video Cassettes, DVDs through TV/VCR
- KrishiPrabha: Krishikosh, e-granth etc.
- OPAC (Online Public Access Catalog)

Library Collection

Sr. No.	Particulars	University Library	College of Agriculture Library			Total
			Pune	Kolhapur	Dhule	
1	Books	74672	50300	41069	42403	208444
2	Back Volumes of Journals	27968	5161	4904	2600	40633
3	Theses	9884	314	330	213	10741
4	Current Periodicals	198	25	41	29	293
5	E- Resources	907	148	392	125	1572
	Total	113629	55948	46736	45370	261683

Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management

The Centre for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM) is functional since 2018 at Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri. It is implemented through the National Agricultural Higher Education Project (NAHEP), a flagship project of the Indian Council of Agricultural Research (ICAR) New Delhi. Its thrust areas are climate smart agriculture and water management, Geo-informatics (RS/GIS), UAVs (Drone), Robotics, IoT, and precision agriculture. Since then, this CAAST project has addressed the issues outlined in four objectives as briefed below.

- To develop the capacity amongst the faculties and scientists for the development and adoption of Precision Farming, Climate Smart Agriculture and Water Management Technologies.
- To start one-year Post-Graduate Diploma in "Climate Smart Agriculture and Water Management" for developing human resources to create entrepreneurship and enhance employability in the public sectors and private industries, strengthen

the current M.Sc., M. Tech. and Ph.D. programme (for their research projects, and make provision for the prospective beginner/middle-level faculties/researchers for Post Doctorate studies in precision water management, precision climate-smart agriculture and Geoinformatics

- To develop an integrated system including RS/GIS and GPS tools, modelling and SDSS tools using unmanned aerial system (UAS aka. drone) and sensor-based technologies, mobile applications and their applications climate-smart and precision agriculture and water management.
- To conduct end-to-end capacity building through on-the-job training and case study-based learning; enhance the employment and placement rate; and business and entrepreneurship opportunities.

The project with a total budget of Rs. 19.90 crores was submitted under the leadership of Dr. K. P. Viswanatha, Former Vice-Chancellor, MPKV, Rahuri. Now the project is presently working under the guidance of Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri, Dr. S. R. Gadakh, Director of Research & Director of Extension, MPKV, Rahuri and being implemented under administrative and technical control of Dr. A. L. Pharande, Former Dean (F/A) & Director of



Instructions and Dr. P. N. Rasal, Dean (F/A) & Director of Instructions MPKV, Rahuri by Dr. S. D. Gorantiwar, Principal Investigator and assisted by Dr. M. G. Shinde and Dr. J. S. Pachpute, Co-Principal Investigators, CAAST-CSAWM, MPKV, Rahuri along with 22 faculty members and 22 Research Associates from different disciplines

This project developed collaboration with different Universities from abroad namely, Washington State University, Pullman, WA, USA; Mississippi State University, Starkville, MS, USA; International Water Management Institute (IWMI); Colombo, Sri Lanka (CGAIR Organization); Asian Institute of Technology, Bangkok, Thailand and National Institute and Organizations of repute namely, Indian Institute of Technology, Pawai, Mumbai; Indian Institute of Remote Sensing, Dehradun; National Institute of Abiotic Stress

Management, Malegaon (Kh), Baramati; Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad and National Bureau of Soil Science and Land Use Planning, Nagpur for research, education and extension in climate smart agriculture and water management; Yorient Technologies Pvt. Ltd., Pune; E-Yantra (IIT Mumbai) and Mahindra and Mahindra Ltd., Mumbai. The thematic areas of the climate smart agriculture and water management are precision farm machineries for climate smart agriculture, application of robotics and drone in precision and climate smart agriculture, precision water management, automated irrigation system for climate smart agriculture, remote sensing, GIS and GPS, Google Earth Engine and Artificial Intelligence applications in climate smart agriculture and water management, climate resilient agriculture and climate-smart villages.

Major achievements during 2021-22 are highlighted below

1. Capacity building of students and faculties through online mode during 2021-22

Sr. No.	Activities	No.	Total no of participants		
			Students	Faculty	Farmers
1	National Trainings	09	923	312	-
2	National Workshops	10	677	124	-
3	National Webinars/Symposiums	12	1762	167	-
4	An online national certificate courses	14	448	559	24
5	Expert Lecture/Guest Lecture	17	537	678	-
6	Exposure visits	21	1053	432	275
7	Demonstrations	15	279	351	189
Total		98	5679	2623	488

2. Academic Programmes

a) The PG Diploma framework and the 71 courses (related to CAAST-CSAWM thematic areas) to be offered in each module have been finalized during eight workshops and brainstorming sessions conducted at MPKV, Rahuri and Pune campuses

with 28 National and International partners. This programme will be offered in the following five different specializations depending on the courses completed by the student.

- Climate Smart Agriculture - Geoinformatics (GI)

- Climate Smart Agriculture – Natural Resources Management (NRM)
 - Climate Smart Agriculture – Robotics, Drones, IoT & Precision Farm Machineries (RDI)
 - Climate Smart Agriculture – Precision Water Management (PWM)
 - Climate Smart Agriculture – Social Science (SS)
- b) Started the Post Doctorate Research Programmes from 2021-22.
- c) Formulated the 7 courses related to Climate Smart Agriculture and Water Management to be offered to the M.Sc./M. Tech. and Ph. D. programmes as non-gradual or audit courses.
- d) The project aims at building the capacity and

providing the training to the graduate or post-graduate individuals, faculties/scientists of the University and Research Organizations; and the practitioners from the development departments/ NGOs and other concerned organizations in climate smart agriculture and water management to enable them to adopt these technologies for the productive and sustainable agriculture and provide the business and entrepreneurship opportunities. In this context, CASST-CSAWM has formulated the certificate courses of three weeks durations for the PG Diploma. The revenue generated from the registration fees of these certificate courses during 2021-22 was Rs. 22.80 lakh.

- e) Developed Drone/Robotics laboratories and up gradated RS & GIS and CAD-CAM laboratories.



Unmanned Aerial Vehicle (UAV) Laboratory Robotics laboratory



Hyperspectral Imaging Laboratory IoT & Sensors Laboratory

3. Out of box research initiatives

A. Development of Mobile applications

- 1 Automatic Phule Irrigation Scheduler (AutoPIS)
- 2 Soil erodibility factor (Spatial K)
- 3 Soil erosivity factor (Spatial R)
- 4 Phule Smart Weather
- 5 Smart Phule Irrigation Scheduler (SmartPIS)
- 6 Phule Soil Moisture based Irrigation Scheduling

- 7 System (PSMISS)
- 8 Location-specific real-time irrigation water requirement (Spatial IWR)
- 9 Phule Smart Fertilizer Calculator
- 10 Phule IoT enabled Siphon System for irrigation from Farm Pond
- 11 Framework for crop information system
- 12 38 Crop app for 22 major crops



Mobile applications developed under CAAST-CSAWM

B. Web applications

- 1 Soil erodibility factor (Spatial K)
- 2 Soil erosivity factor (Spatial R)
- 3 CAAST admin dashboard
- 4 Phule IoT enabled Siphon System for irrigation from farm Pond

- 5 Phule soil textural triangle
- 6 Location-specific real-time irrigation water requirement (Spatial IWR)
- 7 Phule Smart Fertilizer Calculator
- 8 Framework for training evaluation



Web applications developed under CAAST-CSAWM

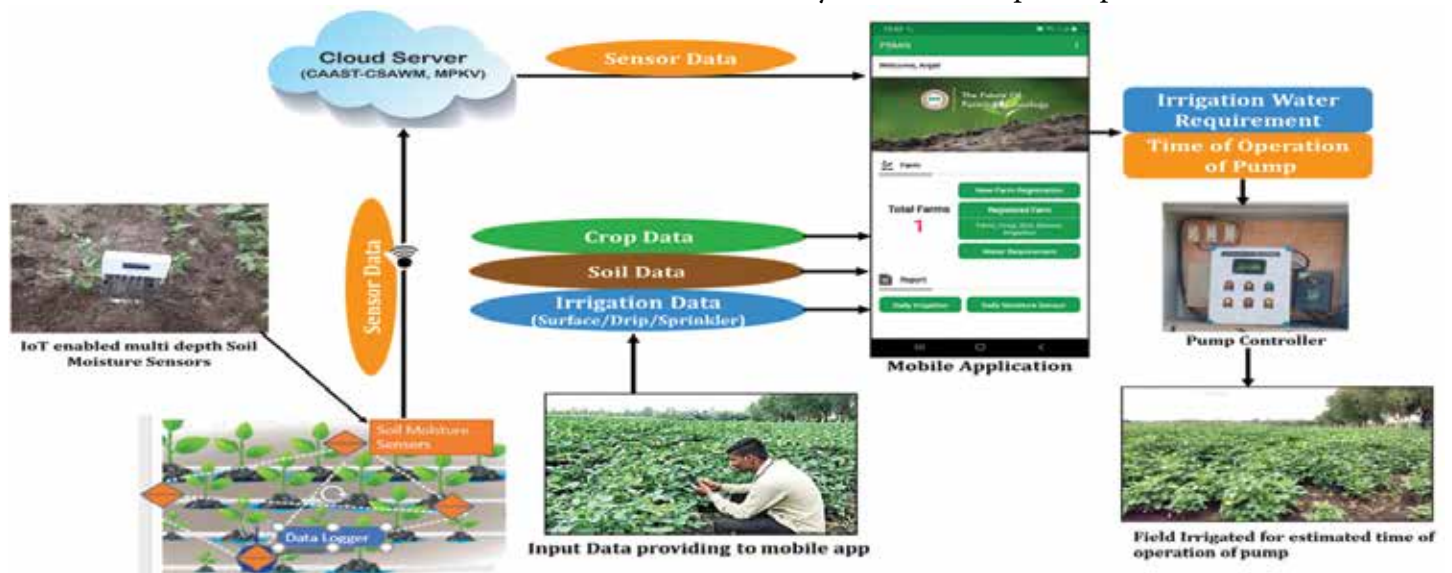
C. Drone, Robotics and Precision Machinery Technologies

1. Real-time variable rate fertilizer applicator
2. Optimization of operating parameters of spraying with drone (UAV) for sugarcane
3. Monitoring growth and yield estimation of Soybean using UAV based hyperspectral imaging sensors

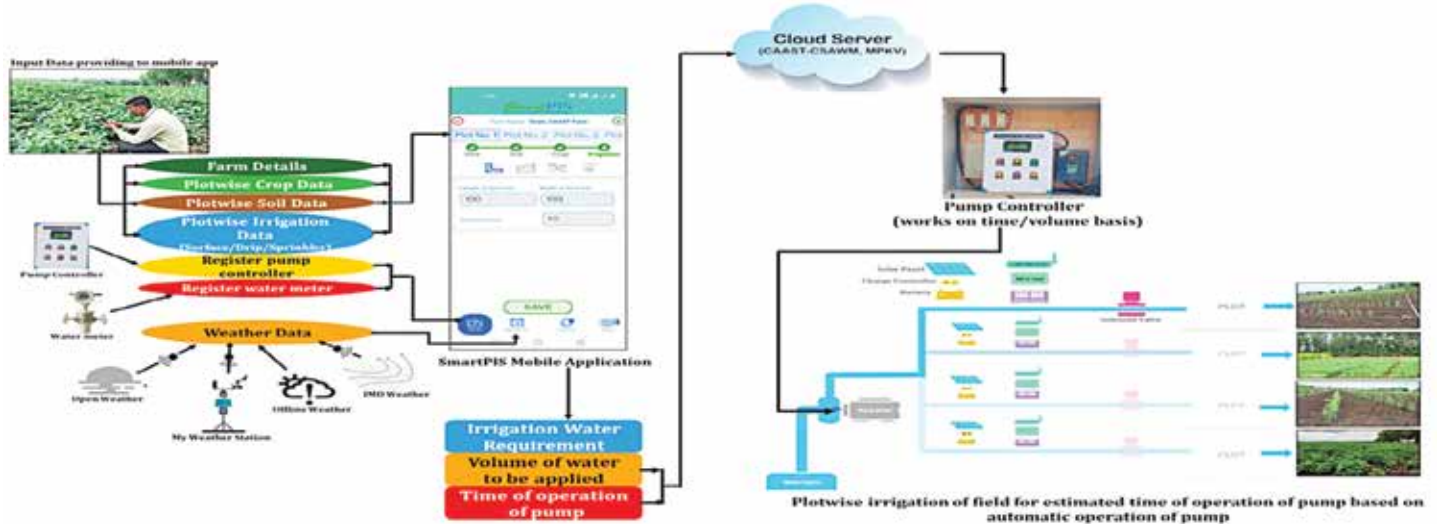
D. Development of IoT enabled and Sensor based Technologies

1. IoT enabled Automatic Weather Stations of different types
 - Smart Weather Station (type 5)
 - Smart Weather Stations (type 2 – 4)
 - Low cost IoT enabled temperature and humidity monitoring system mini (type 0)

- IoT enabled AWS star topology system for estimating rainfall variability
- 2. IoT enabled pan evaporimeters
 - Principle of load cells and
 - Principle of ultrasonic pressure sensor
- 3. IoT enabled Automatic pump controller for a single crop
- 4. IoT enabled location specific-real time irrigation scheduling system for single crop (AutoPIS)
- 5. IoT enabled water meter
- 6. IoT enabled water meter-based location specific-real time irrigation scheduling system for single crop
- 7. IoT enabled Automatic pump controller for multiple crops
- 8. IoT enabled solenoid valves
- 9. IoT enabled water meter and solenoid valve based location specific-real time irrigation scheduling system for multiple crops



Phule Soil Moisture Irrigation Scheduling System (PSMISS) for single crop



IoT enabled water meter and solenoid valve based location specific-real time irrigation scheduling system for multiple crops



Capacitance based soil moisture sensor FDR+ Capacitance based soil moisture sensor



Field Installation of IoT enabled Automatic Pump Controller for Multiple plots (SmartPIS system)

Received copyright registrations (RoC) for 11 different mobile and web applications developed under CAAST-CSAWM and some of the above-developed technologies (web-based and mobile-based

applications) have been submitted for copyright. Also, the process of submitting other technologies for patents and copyrights is in process.



Certificates of copyright registrations (RoC) for different mobile and web applications developed under CAAST-CSAWM

Climate Smart Blocks

The climate smart block has been developed on 10 ha area to demonstrate the climate smart technologies

to the students and faculties and provide the facilities to the PG students to undertake the research experiments in climate smart agriculture and water management.

4. Knowledge Destination

- Developed Climate Smart Agriculture Blocks for research, experimentation and demonstration related to climate smart agriculture and water management.
- Implementing Climate Smart Village approach in eleven selected villages and intern investigating the possibility scaling-up of climate smart agriculture and water management technologies.
- Installation of Automatic Weather Station (AWS): one automatic weather station was installed at the village Baburdi Ghumat, Dist. Ahmednagar.
- Installation of IoT enabled Phule Irrigation Scheduler mobile application based automatic Pump Controller (AutoPIS): AutoPIS has been distributed in farmers of village Baburdi Ghumat, Dist. Ahmednagar; Buchkewadi, Dist. Pune and Setphale, Dist-Sangli and successfully installed on their farms for different crops.
- Distribution of Soil Health Card: Around 120 soil samples were collected from the village for chemical analysis of soil of Baburdi Ghumat and to prepare the soil health card for farmers. This included the analysis of N, P, K, organic matter content and micronutrients available therein and suggests the crop-based fertilizer advisory to the farmers.
- Crop Contingent Plan: The centre has developed a procedure for downscaling the District Level Crop Contingent Plan to the village level and preparing crop contingent plans for the seven villages.
- Visit: Dr. R. C. Agrawal, Hon'ble Deputy Director General (Agril. Edn) and National Director, NAHEP, ICAR, New Delhi and Dr. Prabhat Kumar, National Coordinator, CAAST, NAHEP,

ICAR, New Delhi visited the Climate Smart Digital Agricultural, Baburdi -Ghumat village on October 17, 2021 adopted by CAAST-CSAWM

Innovation and Best Practices

- Initiated ICAR Best Teacher Award
- Identified 29 Adjunct Faculty in the discipline of agriculture and allied science.
- Established ten economically viable Experiential Learning Modules to enhance the confidence and competence of students for starting up-their own enterprises. University Resolution for Profit Sharing of Experiential Learning Module is issued for execution.
- Developed National/International linkages with academic institutes provide Fellowships and Scholarships to students for education, research and opportunity to study abroad.
- Placement Cell is established at each constituent college.
- Competitive Exam Forum has been activated at each constituent college to encourage the students' participation in ARS/JRF/SRF/NET/GATE examinations.
- UG/PG Merit award is provided to students in respective faculty.
- Students are motivated for participation in Avhan, Ashwamedh, Indradhanushya and Avishkar for development of the students in disaster management, sports, cultural activities and inculcation of research aptitude respectively.



Educational Institutes

Sr. No.	Name of Institute	Name of the Course/ Degree	Intake capacity
A) Constituent Colleges			
1.	Post Graduate Institute, Rahuri	Ph.D. (Agriculture)	68
		M.Sc. (Agri.)	159
		M.Sc. (Hort.)	12
		M.Sc. (Bio-tech.)	08
2.	College of Agriculture, Pune	M.Sc. (Agri.)	60
		M.Sc. (Hort.)	06
		M.B.M. (Agri.)	30
		B.Sc. (Hons) Agriculture	190
3.	Rajshri Chatrapati Shahu Maharaj College of Agriculture, Kolhapur	M.Sc. (Agri.)	48
		M.Sc. (Hort.)	06
		B.Sc. (Hons) Agriculture	190
4.	College of Agriculture, Dhule	M.Sc. (Agri.)	24
		M.Sc. (Hort.)	4
		B.Sc. (Hons) Agriculture	128
5.	College of Agriculture, Karad, Dist. Satara	B.Sc. (Hons) Agriculture	60
6.	College of Agriculture, Nandurbar	B.Sc. (Hons) Agriculture	60
7.	College of Agriculture, Muktainagar, Dist. Jalgaon	B.Sc. (Hons) Agriculture	60
8.	Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon	B.Sc. (Hons) Agriculture	60
9.	College of Agril. Business Management, Kashti, Tal. Malegaon, Dist. Nashik	B.Sc. (Hons) Agril. Business Management	40
10.	College of Food Technology, Kashti, Tal. Malegaon, Dist. Nashik	B.Tech (Food-Tech)	40
11.	College of Horticulture, Pune	B.Sc. (Hons) Horticulture	32
12.	Dr. Annasaheb Shinde College of Agril. Engg. and Tech., Rahuri	Ph.D. (Agril. Engg)	12
		M. Tech. (Agril. Engg)	16
		B.Tech. (Agril. Engg)	64
B) Affiliated Colleges			
1.	College of Agriculture, Akhuj	B.Sc. (Hons) Agriculture	120
2.	College of Agriculture, Baramati	B.Sc. (Hons) Agriculture	180
3.	College of Agriculture, Sonsal Hingangaon, Kadegaon	B.Sc. (Hons) Agriculture	120
4.	Maratha Vidya Prasarak, College of Agriculture, Nasik	B.Sc. (Hons) Agriculture	120
5.	College of Agriculture, Rethare, Karad	B.Sc. (Hons) Agriculture	120
6.	College of Agriculture, Sonai	B.Sc. (Hons) Agriculture	180
7.	K.K.Wagh College of Agriculture, Nasik	B.Sc. (Hons) Agriculture	120
8.	College of Agriculture, Rajmachi, Karad	B.Sc. (Hons) Agriculture	120



9.	Dr.Ulhas Patil College of Agriculture, Jalgaon	B.Sc. (Hons) Agriculture	120
10.	College of Agriculture, Ambi, Talegaon Dabhade	B.Sc. (Hons) Agriculture	120
11.	College of Agriculture, Shahada, Nandurbar	B.Sc. (Hons) Agriculture	120
12.	College of Agriculture, Wadala	B.Sc. (Hons) Agriculture	120
13.	College of Agriculture, Talsande	B.Sc. (Hons) Agriculture	120
14.	College of Agriculture, Phaltan	B.Sc. (Hons) Agriculture	120
15.	College of Agriculture, Amalner	B.Sc. (Hons) Agriculture	60
16.	College of Agriculture, Maldad, Sangamner	B.Sc. (Hons) Agriculture	120
17.	Sadguru College of Agriculture, Mirajgaon	B.Sc. (Hons) Agriculture	120
18.	College of Agriculture, Dondaicha, Dhule	B.Sc. (Hons) Agriculture	180
19.	College of Agriculture, Babhulgaon, Nashik	B.Sc. (Hons) Agriculture	60
20.	College of Agriculture, Pravaranagar, Loni	B.Sc. (Hons) Agriculture	60
21.	College of Agriculture, Ghargaon, Ahmednagar	B.Sc. (Hons) Agriculture	60
22.	Sharad College of Agriculture, Jainapur	B.Sc. (Hons) Agriculture	60
23.	College of Agriculture, Paniv, Solapur	B.Sc. (Hons) Agriculture	60
24.	College of Agriculture, Vilad Ghat, Ahmednagar.	B.Sc. (Hons) Agriculture	60
25.	College of Agriculture, Nesari, Kolhapur	B.Sc. (Hons) Agriculture	60
26.	College of Agriculture, Malegaon, Nashik	B.Sc. (Hons) Agriculture	60
27.	College of Agriculture, Bhanashiwra, Newasa, Ahmednagar	B.Sc. (Hons) Agriculture	60
28.	College of Horticulture, Phaltan	B.Sc. (Hons) Horticulture	80
29.	College of Horticulture, Sonsal-Hingangaon, Kadegaon	B.Sc. (Hons) Horticulture	40
30.	K.K.Wagh College of Horticulture, Saraswatinagar, Nashik	B.Sc. (Hons) Horticulture	40
31.	College of Horticulture, Malegaon	B.Sc. (Hons) Horticulture	40
32.	College of Horticulture, Paniv, Solapur	B.Sc. (Hons) Horticulture	40
33.	College of Agri. Engineering, Jalgaon	B.Tech (Agril. Engg.)	80
34.	College of Agri. Engineering, Talsande, Hatkangale	B.Tech (Agril. Engg.)	80
35.	K. K. Wagh College of Agril. Engineering, Nasik	B.Tech (Agril. Engg.)	80
36.	College of Agril. Engineering, Yashwantnagar, Karad, Satara	B.Tech (Agril. Engg.)	40
37.	College of Agril. Engineering, Mirajgaon, Ahmednagar	B.Tech (Agril. Engg.)	40
38.	College of Agril. Engineering, Paniv, Soalpur	B.Tech (Agril. Engg.)	40
39.	College of Agril. Engineering, Maldad, Sangamner	B.Tech (Agril. Engg.)	40
40.	College of Agril. Engineering, Rajmachi, Karad	B.Tech (Agril. Engg.)	40
41.	Mokashi College of Food Technology, Rajmachi, Karad	B.Tech. (Food Tech.)	80
42.	K.K.Wagh College of Food Technology, Nashik	B.Tech. (Food Tech.)	80
43.	College of Food Technology, Maldad, Sangamner	B.Tech. (Food Tech.)	80
44.	College of Food Technology, Jalgaon	B.Tech. (Food Tech.)	40
45.	College of Food Technology, Diwanmala, Dhule	B.Tech. (Food Tech.)	40
46.	College of Food Technology, Wagholi, Pune	B.Tech. (Food Tech.)	40
47.	College of Food Technology, Ghargaon, Ahmednagar	B.Tech. (Food Tech.)	40
48.	College of Agril. Biotechnology, Loni, Rahata	B.Tech. (Biotechnology)	80



49.	K.K. Wagh College of Agril. Biotechnology, Nasik	B.Tech. (Biotechnology)	80
50.	College of Agril. Biotechnology, Wadala, Solapur	B.Tech. (Biotechnology)	40
51.	Modern College of Agri. Biotechnology, Paud, Mulshi, Pune	B.Tech. (Biotechnology)	40
52.	College of Agriculture Biotechnology, Madadgaon, Ahmednagar	B.Tech. (Biotechnology)	80
53.	College of Agriculture Biotechnology, Baramati	B.Tech. (Biotechnology)	40
54.	College of Agricultural Business Management, Akurdi, Pune	B.Sc. (Hons) Agril. Business Management	80
55.	College of Agricultural Business Management, Narayangaon, Junnar	B.Sc. (Hons) Agril. Business Management	80
56.	College of Agricultural Business Management, Sangli	B.Sc. (Hons) Agril. Business Management	40
57.	College of Agricultural Business Management, Gunjalwadi, Sangamner	B.Sc. (Hons) Agril. Business Management	40
58.	College of Agricultural Business Management, Loni, Rahata	B.Sc. (Hons) Agril. Business Management	40
59.	College of Agricultural Business Management, Nashik	B.Sc. (Hons) Agril. Business Management	40
60.	College of Agricultural Business Management, Wadala, Solapur	B.Sc. (Hons) Agril. Business Management	40
61.	College of Agricultural Business Management, Baramati	B.Sc. (Hons) Agril. Business Management	40
62.	College of Agriculture Business Management, Paniv, Solapur	B.Sc. (Hons) Agril. Business Management	40
C) Agril. Tech. Schools & Mali Training, Centers		Course	Intake
1.	Ghatak Krishi Tantra Vidyalaya, Manjarifarm (Pune), Kolhapur, Dhule, Borgaon (Satara), Solapur, Digras (Sangali), Puntamba (Ahmednagar), Jalgaon, Malegaon (Nashik)	Agril. Diploma	60 (Each)
2.	Private Agril Tech. Schools (Total - 55)	Agril. Poly. Diploma	60 (Each)
3.	Government Agril Polytechnic School, Kashti, Tal. Malegaon Dist. Nashik	Agril. Poly. Diploma	40
4.	Private Agril. Polytechnic School (Total 14) (3 years English Medium)	Agril. Poly. Diploma	40
5.	Mali Training Center, GaneshKhind, Pune and MPKV, Rahuri	Certificate Course	40 (Each)
6.	Recognized Mali Training Center (Total - 04)	Certificate Course	40 (Each)



Pass out Students of Graduate, Post Graduate, Agril. Diploma & Agril. Polytechnic of MPKV, Rahuri (Academic year 2021-22)		
Sr.No.	Programme	Pass out Students
Graduation		
1.	B.Sc. (Agril.)	4216
2.	B.Sc. (Horti.)	239
3.	B.Tech. (Agril. Engg.)	527
4.	B.Tech. (Food Technology)	407
5.	BBM (Agril.)	335
6.	BBA (Agril.)	324
7.	B.Sc. (Agril. Bio.Tech.)	15
8.	B. Sc (Animal Hus.)	15
	Total	6078
Ph.D. and Post Graduation		
9.	Ph.D. (Agri)	61
10.	M.Sc. (Agril.)	434
11.	M.Sc. (Horti.)	41
12.	M.Tech. (Agril. Engg.)	13
13.	M.B.A	44
14.	M.Sc. (Bio.Tech.)	10
15.	Ph. D. (Agri. Engg.)	3
	Total	606
Agril. Diploma & Agril. Polytechnic		
16.	Agril. Diploma	3085
17.	Agril. Polytechnic (Semi English)	38
18.	Agril. Polytechnic (English)	--

3. Research



The jurisdiction of Mahatma Phule Krishi Vidyapeeth, Rahuri extends over the Western Maharashtra comprising of 10 districts divided into four agro climatic zones viz., Western Ghat zone, Sub-montane zone, Plain zone and Scarcity zone with assured rainfall in Central Plateau zone in jurisdiction of the University.

For conducting the research on soil, climate, cropping system, livestock and other aspects of farming business, the University has a well established network of research stations spread over different agro climatic zones. In all, 27 research stations are located in 5 agro climatic zones. The State level Crop Specialists are placed at Jalgaon (Oilseeds), Padegaon (Sugarcane), Niphad (Wheat) and Solapur (Soils). In addition to this, 4 Zonal Agricultural Research Stations are located at Igatpuri, Pune, Kolhapur and Solapur. There are 18 sub-research stations, where mainly verification of research work is being done to test the technologies developed by the University as well as to conduct the research programmes based on feedbacks received from the farmers.

At present, there are 82 non-plan schemes funded by State Govt., 45 AICRPs on different crops /plant sciences and one centrally sponsored research scheme and 31 ad-hoc research projects, functioning in the jurisdiction of MPKV.

Taking into consideration the availability of land, weather conditions and resources, the University has concentrated its efforts to develop suitable technologies for dryland agriculture, irrigated farming as well as for hi-tech agriculture. During the last 54 years, the University has

released quite good number of high yielding varieties (more than 280) of cereals, pulses, oilseeds, vegetables, sugarcane, fruits, flowers and other cash crops. The appropriate agrotechniques for enhancing agricultural production and productivity of different crops have also been passed on to the farmers. The contribution of University in water management is quite significant. The research on micropropagation, farm machinery, dryland horticulture, integrated pest and nutrient management including biofertilizers, mushroom production etc. is worth mentioning. The University has focussed its attention on location specific and need based research activities in order to cater the needs of all types of farmers and farming groups. Biotechnology with its vast potential and challenges is important to agricultural development. This University is developing biotechnological competence in the areas of plant tissue culture, molecular biology, biocontrol, and biofertilizers. The University has also prepared next 10 years research roadmap regarding development of improved crop varieties, farm implements and machinery. Furthermore, the University prioritizing its research on biotic and abiotic stress management, precision farming, processing and mechanical harvesting, bio-pesticides and fertilizers, nutritional and quality parameters. We have initiated the activities as per the policies of the state and central governments in mission mode. These includes natural resource management for soil health and water use efficiency, development of robotic technology in the field of agriculture, use of nano technology, irrigation water management based on automatic weather station at its IT applications.

The sweet Sorghum variety CSH- 47 having high biomass yield suitable for ethanol, biofuel and silage making and Wingedbean variety PWB 11-2 (*Phule Chardhari Wal*) having high pod yield and protein content are recently dedicated to the Nation by Hon`ble Prime Minister of India during the report period.

During the last year, the University has released 8 crop varieties of cereals, pulses and cash crops, 2 varieties

of horticultural crops and 58 research recommendations at state level for the benefit of farming community. The patent on 'Process of preparation of cookies' was granted to the University by the patent office, Government of India for 20

years. The University is recognized as best performing centre (SAU category) in Quality Seed Production under AICRP on Seed (Crops) for the year 2021-22.

Zonal, State Level, Lead and Verification Research Stations of the University

Sr. No.	Research Station	Lead Function (s)	Verification Function (s)
A. Western Ghat Zone			
1.	Zonal Agril. Research Station Igatpuri, Dist. Nasik	Rice, Niger, Silviculture, Soil Water Conservation Engineering Rice, Niger, Silviculture, Soil Water Conservation Engineering	Ragi, Beans, Rainfed fruits, Plantation crops, Turmeric Ragi, Beans, Rainfed fruits, Plantation crops, Coffee, Turmeric
2.	Agril. Research Station, Lonavala, Dist. Pune	Rice (Screening for blast)	--
3.	Regional Wheat Rust Research Station, Mahabaleshwar, Dist. Satara	Wheat (Screening against rust)	Vegetables (cruciferous), Berries
4.	Agril. Research Station, Radhanagari	Paddy	Beans, Wheat, Wal
B. Sub-Montane Zone			
1.	Zonal Agril. Research Station, Kolhapur	Sugarcane, Jaggery Maize, Small Millets, Pandharpuri Buffalo, Horticultural Systems, Sugarcane,	Sugarcane based Cropping System Grasses, Rainfed fruits & Vegetables, Soybean, Groundnut, Organic Farming in Vegetables
2.	Regional Sugarcane and Jaggery Research Station, Kolhapur	Sugarcane, Jaggery	Sugarcane based Cropping System
3.	Agril. Research Station, Gadhinglaj	Organic farming, Basmati Rice	Sorghum (K), Pulses, Chilli, and Oilseeds
4.	Agril. Research Station, Karad	INM for Cropping Systems	Pulses, Maize, Kharif Jowar, Soybean, Sunflower, Groundnut,
5.	Agril. Research Station, Vadgaon Maval	Rice	Rice based Cropping System.
C. Plain Zone			
1.	Zonal Agril. Research Station, Ganeshkhind, Pune	Wheat, Wheat based Cropping Systems Fruits, Vegetables, Flowers, Rajmah Bean, Spices, Plantation Crops, Potato	Pearl millet, Pulses and Oilseeds Pulses, Oilseeds and Wheat
2.	Agril. Research Station, K. Digraj, Dist. Sangli	Turmeric, Soybean, Groundnut Betelvine, Problematic Soils	Kharif Jowar, Pulses Sugarcane, Sugar beet,
3.	Agril. Research Station, Niphad	Wheat, Wheat based Cropping Systems	Pearl millet, Pulses and Oilseeds



4.	Onion and Grape Research Station, Pimpalgaon Baswant	Grapes, Onion and Garlic	Pomegranate and Vegetables
D. Scarcity Zone			
1.	Zonal Agril. Research Station, Solapur	Pulses, Oilseeds Soils, Dry farming, Safflower Agrometeorology, Sunflower	Arid Zone Fruit Crops Pearl millet, Pulses, Sorghum (R)
2.	Agril. Research Station, Mohol, Dist. Solapur	Sorghum (R)	Pulses and Oilseeds
3.	Agril. Research Station, Jeur, Dist. Solapur	Organic Farming System	Rabi Jowar, Pulses
4.	Pulses and Oilseed Crops Research and Training Centre, Pandharpur, Dist. Solapur	Pulses, Oilseeds	Arid Zone Fruit Crops
5.	Agril. Research Station, Chas, Dist. Ahmednagar	--	Dry farming, Pearl millet, Pulses (K), Sorghum (R)
6.	Central Sugarcane Research Station, Padegaon, Dist. Satara	Sugarcane, Sugarcane based Farming & Cropping System	Sugar beet
7.	Central Campus, Rahuri	Sorghum, Pulses, Irrigated Cotton, Forages, Grasses, Groundnut (S), Fruits, Vegetables, Cropping System, Water Management, Organic Farming, IPM, Biotechnology, PHT, Farm Machinery, STCR, Cattle, Goat, Sheep, Seed technology, Jute and Under utilised crops	--
8.	Agril. Research Station, Savlivihiir, Tal. Kopergaon, Dist. Ahmednagar	Sunflower	Pearl millet, Pulses, Soybean, Cotton and Wheat
9.	Agril. Research Station, Shrirampur	Citrus	--
10.	Agril. Research Station, Dhule	Dry farming, Pearl millet, Grasses	Sorghum (K), Pulses, Oilseeds, Rainfed Cotton, Arid Zone Fruit Crops
11.	All India Coordinated Fig and Custard apple Research Centre, Jadhavwadi (Pune)	Fig and Custard apple	Fig and custard apple
12.	Pomegranate Research and Technology Extension Centre, Lakhmapur, Dist. Nasik	Pomegranate	Pomegranate
E. Central Plateau Zone			
1.	Oil Seed Research Station, Jalgaon	Oilseeds, Banana and Betelvine, Rainfed Cotton	Pulses, Sorghum (Kharif), Soybean, Sunflower

Maharashtra has four geographic regions viz., Konkan, Western Maharashtra, Vidarbha and Marathwada, which have different ecological and cropping patterns. On the basis of weather and land conditions, Maharashtra is divided into nine agroclimatic zones viz., North Konkan, South Konkan, Montane Zone, Sub-montane zone, Plain Zone, Scarcity Zone, Central Plateau Zone, Western Vidarbha and Eastern Vidarbha. To cater the needs of these zones and improve the production and productivity of different crops, this university has planned various research and extension programmes. Emphasis is given on sustainable agriculture, including poultry, sheep and goat rearing, apiculture, fisheries, sericulture etc. The university has also initiated a project on 'Deshi cow research and training centre' for improvement in breeds of deshi cows and providing the training to entrepreneurs and farmers. The efforts are also made for production of cattle (Sahiwal, Gir, Red Sindhi, Rathi and Tharparkar) calves through Embryo Transfer

Technology.

The areas have been identified for better adaptation of cropping patterns such as sugarcane in Kolhapur, Sangli, Pune and Ahmednagar, grapes in Nashik, Sangli, Pune and Solapur, fruits in Pune, Ahmednagar, Sangli and Solapur to harvest maximum yield and profit.

Seed production Programme

Sr. No.	Input	Production
1	Seed Production	
	University farm	8,522 q
	Farmers participatory	8,707 q
	Pulses Seed Hub	3,468 q
	Total	20,697 q
2	Planting Material (No. of grafts)	13.22 Lakhs
3	Biopesticides	80.30 MT & 878L.
4	Biofertilizers	43.28 MT & 10334 L.
5	Micronutrient formulation	28,000 L.

Significant Research Achievements

A Released Varieties/Hybrids

I. Field Crops

1. Sorghum- Phule Yashomati (RSV 1910)- Phule

Yashomati is recommended exclusively for rainfed condition under shallow soil for replacement of Phule Anuradha for Western Maharashtra.



Salient features

- Grain yield: 9.2 q/ha (19.5 % increase over Phule Anuradha and 17.9 % increase over M 35-1)
- Fodder yield: 42.6 q/ha (9.8 % increase over Phule Anuradha and 4.7 % increase over M 35-1)
- Tolerance to shoot fly and stem borer.
- Moderately resistant to Charcoal rot and foliar diseases (rust and leaf blight).
- Tolerance to Drought (superior in physiological parameters associated with drought).
- Pearly white, medium bold and round grain.
- Early maturity (112-115 days).
- Recommended : rainfed, shallow soil, Western Maharashtra.

2. Wheat- Phule Anupam (NIAW-3624)

Bread wheat variety Phule Anupam (NIAW 3624) is found superior over checks in timely sown [from November 1 to 20] is recommended for cultivation in Maharashtra under timely sown restricted irrigation conditions.



Salient features

- Yield - NIAW 3624 (30.56 q/ha) is superior to the checks NIAW 1415 (26.31 q/ha), NI 5439 (24.06

q/ha) and HI 1605 (30.30 q/ha) under restricted irrigated condition.

- Exhibited resistant type of reaction to leaf and stem rust, aphids.
- Attractive long grains with grain appearance score of 8.2.
- Duration 105 to 110 days
- Recommended for cultivation in Maharashtra under timely sown restricted irrigation conditions

3. Safflower- Phule Gold (SSF-15-65)

The safflower genotype Phule Gold (SSF-15-65) is recommended for release in safflower growing Zone-I (Maharashtra, Karnataka, Andhra and Telangana) of the Country.



Salient features

- Higher Oil yield 575 kg ha⁻¹ (25 % higher oil yield over the check A1)
- Oil Seed Yield- 1665 kg ha⁻¹
- Higher Oil content- 34.6 %
- Average maturity -120-125 days
- Moderately resistant to Fusarium wilt disease
- The hull content in SSF-15-65 (41.9 %)
- Released at national level for safflower growing rainfed and irrigated areas of Maharashtra, Karnataka, Andhra Pradesh and Telangana

4. Safflower- Phule Kiran (SSF-16-02)

The safflower genotype Phule Kiran (SSF-16-02) is recommended for release in safflower growing areas of the Country (Maharashtra, Karnataka, Telangana, Andhra Pradesh, Madhya Pradesh and Chhattisgad).



Salient features

- Oil seed yield 2058 kg ha⁻¹ (10.05 % higher over the national check A1)
- Oil yield 632 kg ha⁻¹ (19.92 % higher over the national check A1)
- Higher Oil content- 30.55 % as compared to A1 (27.94 %)
- Average maturity -125-130 days
- Moderately tolerant to aphid
- The hull content is 43.2 %
- Released for safflower growing areas of the country (Maharashtra, Karnataka, Telangana, Andhra Pradesh, Madhya Pradesh and Chhattisgarh).

5. Sesamum- Phule Purna (JLT 408-2)

Sesame variety Phule Purna (JLT408-2) produced the higher seed yield in summer season which was higher than prevailing varieties. This variety is proposed for summer cultivation in Khandesh and adjoining areas of Vidarbha and Marathwada region.

**Salient features**

- Yield - 705 kg ha⁻¹ (22.54 % increase over the checks JLT-408 and 14.05 % increase over the checks TKG-22)
- Higher oil content (49.02 %)
- Bold (4g/1000 seed), white seeded
- Lower in FFA (0.81%) and Iodine Value (106.8)
- Resistant to *Cercospora* leaf spot, *Alternaria* leaf spot, Phyllody, Macrophomina stem/root rot, Powdery mildew and Moderately tolerant to pest leaf roller & capsule borer
- Released for summer cultivation in Khandesh and adjoining areas of Vidarbha and Marathwada region

6. Urdbean- Phule Vasu (PU-0609-43)

Urdbean variety Phule Vasu (PU0609-43) is recommended for cultivation in Maharashtra.

**Salient features**

- Seed Yield- 859 kg ha⁻¹ (16.39 % higher than the Check TPU-4 and 22.03 % higher than the Check BDU-1) under rain fed conditions
- Early maturing (73 days).
- Bold seeded (average 100 seed weight 4.87g).
- Tolerance to major diseases Powdery Mildew, Mungbean yellow mosaic virus under field condition.
- Recommended for Maharashtra state.

7. Soybean- Phule Durva (KDS 992)

Soybean variety Phule Durva (KDS 992) is recommended for release in Southern Maharashtra for *Kharif* season. This variety is also released at national level covering areas of Southern Maharashtra, Karnataka, Telangana, Andhra Pradesh and Tamil Nadu states.

**Salient features**

- Seed yield: 25 - 30 q ha⁻¹ (34 % higher over check JS 9305 and 25 % higher over check Phule Agrani)
- Higher oil content (18.25 %)
- Resistant to rust, purple seed stain and bacterial pustule diseases
- Resistant to rust, purple seed stain and bacterial pustule diseases
- Duration - 100 – 105 days
- Recommended at National level for Southern Maharashtra, Telangana, Karnataka, Andhra Pradesh and Telangana.

8. Sugarcane- Phule 11082 (CoM 11082)

The early maturing sugarcane variety CoM 11082 (Phule 11082) is recommended for release in Maharashtra for *suru* and pre-season planting.



Salient features

- Higher Cane Yield *Suru*– 107 t ha⁻¹ and Preseasonal- 118 t ha⁻¹ (15.40 % higher than CoC 671)
- Early maturing (Duration 12 months)
- Sucrose content (19.87 %)
- Moderately resistant to red rot and wilt, resistant to smut and yellow leaf disease, Least susceptible to ESB, INB, top shoot borer, moderately susceptible to mealy bugs.
- Recommended in Maharashtra for *suru* and pre-seasonal planting.

II. Horticulture crops

1. Guava- Phule Amrut (GKGS-P-01-10)

Guava 'Phule Amrut' (GKGS-P-01-10) with glossy greenish yellow fruit, red flesh colour, medium seed content, medium soft seeds and high yield potential is recommended for release in Maharashtra.



Salient features

- Higher yield- 12.73 kg tree⁻¹, 21.27 t ha⁻¹ (Age of tree- 12 years)
- Medium fruit size (210.67 – 222.33 g)
- Red flesh (Lycopene content - 4.83 mg 100 g⁻¹), fruit surface is glossy & smooth, greenish yellow skin colour at edible maturity, pericarp thickness (1.03 cm), medium soft seed, TSS- 11.76 %, acidity 0.32%, ascorbic acid (206.41 mg/100g)
- Recommended for Maharashtra State

2. Tamarind- Phule Shravani (RHRT-14)

Tamarind genotype 'Phule Shravani' (RHRT - 14) with higher pod yield, attractive brown and slightly curved fruits, moderately sweet in taste and more pulp percentage is recommended for release in Maharashtra.



Salient features

- Higher fruit yield- 78.44 kg tree⁻¹, 29.73 t ha⁻¹ (Age of tree- 31 years)
- Moderately sweet in taste (34.78 OB)
- More pulp percentage (62.23 %)
- Regular bearing habit, bigger and bold fruits (weight of fruit- 26.86 g), semi-spreading plants
- Recommended for Maharashtra State

B. Farm Implement

Tractor operated Phule automatic reversible MB plough is recommended to release for ease of operation to the operator and to reduce drudgery, saving time and money during ploughing operation.



Salient features

- Suitable for 40 hp or higher capacity tractors
- Automatic mechanical mechanism is used for turning the plough bottom.
- The field efficiency of the machine is 80.46 %
- Initial cost of the machine is 20 % less over hydraulic MB plough
- Suitable for shallow, medium and deep soils

C. Recommendations**I Natural Resource Management**

1. The following regression equation based on weather parameters for forewarning (prior to one week) on aphid infestation in wheat crop is recommended for the western zone of Maharashtra.

Equation

$$\text{No. of Aphids /shoot/plant} = 200.70 - 15.65 \times T_{\text{max}} + 3.12 \times \text{RH-1} + 38.25 \times \text{WS} - 2.91 \times \text{Epan.}$$

Where,

Aphids = Aphid population/ shoot/ plant
(in equation),

T_{max} = Maximum temperature ($^{\circ}\text{C}$),

RH-1 = Morning relative humidity (%),

WS = Wind Speed (km/hr),

Epan = Pan evaporation (mm).

2. The following regression equation based on weather parameters for forewarning (prior to one week) on leaf miner infestation in citrus is recommended for the scarcity zone of Maharashtra.

Equation

$$\text{Leaf miner (No. of mines /plant)} = 213.13 + 0.15 \times T_{\text{min}} - 2.11 \times \text{RH-2} + 0.23 \times \text{RF} - 10.41 \times \text{BSS}$$

Where,

Leaf miner = Leaf mines (in equation),

T_{min} = Minimum temperature ($^{\circ}\text{C}$),

RH-2 = Afternoon relative humidity (%).

RF = Rainfall (mm),

BSS = Bright Sunshine Hrs

3. The following regression equation based on weather parameters for forewarning (prior to one week) on aphid infestation in potato crop is recommended for the western zone of Maharashtra.

Equation

$$\text{Aphid (No. of Aphids /leaf/plant)} = 659.13 - 89.32 \times T_{\text{max}} + 10.74 \times T_{\text{min}} + 20.76 \times \text{RH-1}$$

$$+ 61.78 \times \text{WS.}$$

Where,

Aphid = Aphid population/ leaf/ plant
(in equation),

T_{max} = Maximum temperature ($^{\circ}\text{C}$),

T_{min} = Minimum temperature ($^{\circ}\text{C}$),

RH-1 = Morning relative humidity (%),

WS = Wind Speed (km/hr).

4. Application of 25% of the recommended dose of N through urban compost one week before sowing/ planting and remaining 75% N through urea along with recommended dose of P_2O_5 and K_2O to Bt.-cotton, pearl millet, maize, wheat, maize fodder, sorghum fodder, pigeonpea, chickpea, groundnut, cabbage, onion and okra is recommended for increase in yield, plant nutrients uptake and monetary returns in irrigated shallow to deep black soils of Western Maharashtra.

Note:- Before use of urban compost it should be analyzed in the laboratories for heavy metals content and heavy metal content should be below critical limits given by fertilizer control order.

5. Application of 75% RDF (18.75 kg N/ha+ 37.50 kg $\text{P}_2\text{O}_5 \text{ ha}^{-1}$) at the time of sowing with 2% foliar spray of water soluble fertilizer (19:19:19) at 45 and 60 DAS is recommended to increase the yield and monetary returns of summer groundnut in Western Maharashtra.
6. The application of FYM 10 t ha^{-1} along with N, P_2O_5 and K_2O @ 50:40:30 kg ha^{-1} in which half dose of N and full dose of P_2O_5 and K_2O at the time of transplanting and remaining half dose of N at 30 days after transplanting is recommended for obtaining the highest marketable dry herbage yield and monetary return of medicinal Tulsi in medium black soils of Western Maharashtra.



7. Application of 10 t FYM ha⁻¹ one month before transplanting and 60 kg N, 30 kg P₂O₅, 4.2 kg Zn (20 kg zinc sulphate) and 0.66 kg B (6 kg borax) ha⁻¹ through briquettes applied with 5 g guar gum per kg briquettes alongwith 50 kg K₂O ha⁻¹ at the time of transplanting to lowland paddy is recommended for higher yield and net returns in zinc and boron deficient soils of Western Ghat Zone of Maharashtra.
8. Application of recommended dose of N and P₂O₅ (25:50 kg ha⁻¹) alongwith 5 t FYM and 2% foliar spray of Diammonium phosphate (DAP) at 50% pod setting stage is recommended for chickpea grown on medium deep black soils in scarcity zone of Maharashtra for higher yield and monetary returns.
9. Application of recommended dose of N and P₂O₅ (50: 25 kg ha⁻¹) alongwith three foliar sprays of 2% water soluble fertilizer 19:19:19 at rosette stage (25-30 DAS), bud initiation stage (45-50 DAS) and flowering stage (55–60 DAS) is recommended for safflower grown on medium deep black soils of scarcity zone of Maharashtra at terminal drought condition for higher yield and monetary returns.
10. Application of recommended dose of N and P₂O₅ (50:25 kg ha⁻¹) at sowing along with sulphur 40 kg ha⁻¹ incubated in one tone FYM 15 days before sowing is recommended for safflower grown on medium deep black sulphur deficient soils in scarcity zone of Maharashtra for higher yield and monetary returns.
11. In situ green manuring with black gram during *kharif* season followed by seed treatment of Azotobactor and Azospirillum @ 25 g kg⁻¹ with 50% RDN (25 kg), full dose of P₂O₅ (25kg) and K₂O (25 kg) per hectare at the time of sowing is recommend for rabi sunflower grown on medium deep black soil in scarcity zone of Maharashtra for getting higher grain yield, economic returns with better soil health.
12. Application of 40 kg ha⁻¹ sulphur with FYM 2.5 ton 15 days before sowing with recommended dose of N:P₂O₅:K (25:50:0) kg ha⁻¹ is recommended for linseed grown on medium deep black sulphur deficit soil in scarcity zone of Maharashtra for higher yield and monetary returns.
13. Groundnut + Pigeonpea (4:2) intercropping system and Groundnut- Chickpea cropping systems are recommended to increase the yield and monetary returns of *kharif* groundnut in assured rainfall zone of north Maharashtra.
14. Application of 100% RDF(25 kg N/ha+ 50 kg P₂O₅ ha⁻¹) to soil and seed treatment with bio-grow formulation @ 50 ml 10 kg⁻¹ seed along with 200 ml water at the time of sowing is recommended to increase the yield and economic returns of summer groundnut in Western Maharashtra.
15. Sowing of Phule Morana / Phule Warana groundnut variety with 45 x 10 cm² spacing and seed rate 67 kg ha⁻¹ is recommended to increase the yield and economic returns of *kharif* groundnut in assured rainfall zone of North Maharashtra.
16. Drip fertigation with 80% recommended dose (80:40:40 NPK kg ha⁻¹) of water soluble fertilizers in 12 weekly splits as per following schedule is recommended for higher yield, efficient water, nutrient use and higher economical returns from summer okra cultivated in medium deep soils of Western Maharashtra.

Days after sowing	Nitrogen (N)		Phosphorus (P)		Potassium (K)	
	%	kg	%	kg	%	kg
1-21 days (3 weeks)	25	20	20	08	15	06
22-42 days (3 weeks)	35	28	40	16	25	10
43-63 days (3 weeks)	25	20	25	10	30	12
64-84 days (3 weeks)	15	12	15	06	30	12
Total	100	80	100	40	100	40

17. In medium deep soils of Western Maharashtra for higher green forage yield and net monetary returns of irrigated marvel following fertilizer application is recommended.

- Application of 10 t FYM ha⁻¹ before planting.
- Application of fertilizer dose 160:40:20 kg N:P₂O₅:K₂O ha⁻¹ yr⁻¹.
- Full phosphorus and potassium at planting and every year and nitrogen in eight equal split of 20 kg ha⁻¹ at planting and after every cut of green forage at an interval of 45 days should be applied.

18. Drip irrigation method and withdrawal of

Days after Planting	Nitrogen (N)		Phosphorus (P)		Potassium (K)	
	%	kg	%	kg	%	kg
1-28 days (4weeks)	25	24	30	14.4	15	7.2
29-56days (4weeks)	30	28.8	35	16.8	35	16.8
57-84 days (4weeks)	30	28.8	25	12	30	14.4
85-105 days (3weeks)	15	14.4	10	4.8	20	9.6
Total	100	96	100	48	100	48

20. The pre emergence application of 1.5 lit. 30.7 % EC pretilachlor per hectare within 2 to 3 days after sowing and post emergence application of 0.2 lit. 10% SC bispyribac sodium per hectare at 25 days after sowing in 500 liters of water is recommended for effective management of weeds in drilled paddy of sub montane zone of Maharashtra.

21. The pre emergence application of 100 g 10% WP pyrazosulfuron ethyl per hectare in 500 liters

irrigation at 100 days after transplanting of onion is recommended for higher yield, efficient water use and low storage losses of onion bulb cultivated under Western Maharashtra.

19. Drip fertigation with 80% recommended dose (96:48:48 NPK kg ha⁻¹) of water soluble fertilizers in 15 weekly splits as per following schedule is recommended for higher yield, efficient water, nutrient use and higher economical returns from onion seed production in medium deep soils of Western Maharashtra.

of water at 3-5 days after transplanting and one weeding after 45 days is recommended for effective management of weeds in transplanted paddy of sub montane zone of Maharashtra.

22. Cultivation of minimum tillage based chickpea after *kharif* transplanted paddy under receding soil moisture conditions is recommended to obtain sustainable yield and monetary returns as well as to maintain soil fertility for submontane zone of Maharashtra.



III Horticulture

23. It is recommended that old, senile, high density (5x5m) planted mango orchard Cv. Kesar should be headed at 1.5 m height from ground level for higher fruit yield during November - December in Maharashtra.
24. Foliar application of silicic acid @ 2.0 ml /L to *kharif* onion at nursery stage after 30 days of seed sowing and remaining 3 sprays at 20, 40 and 60 days after transplanting is recommended alongwith recommended dose of fertilizers (100:50:50 Kg N:P:K ha⁻¹ + 20 t ha⁻¹ FYM) for increasing bulb yield and monetary returns.

IV Basic Sciences, Food Science and Technology

25. Delayed harvested fodder of hybrid napier cv. Phule Gunwant before 70 days treated with 2% jaggery is recommended for preparation of good quality silage.
26. Based on juice extractability and biochemical analysis of juice for keeping quality during 2hr dwell time period, sugarcane genotype PDN-15012 is specially recommended for Rasvanti purpose. The shelf life of this juice can be further increased upto 5 days with the application of 85⁰C heat treatment 10 min + ascorbic acid @80 mg 100 ml⁻¹ and upto 15 days by application of 85⁰C heat treatment for 10 min + KMS @ 250ppm.
27. SSR markers, Satt197179bp and Satt063116bp are recommended to accelerate breeding of long juvenile soybean varieties capable of withstanding climatic change.
28. It is recommended to prepare good quality cookies having various medicinal properties and high fiber content with Shatavari 6 % or Ashwagandha 6 % or Pudina 4 % or Aonla 5 % or Behada 5 %, medicinal powder + Maida 1000 g, 500 g sugar, 500 g fat, 5 g ammonium bicarbonate and 5 g sodium bicarbonate.

29. It is recommended to prepare good quality cookies and biscuits with high fiber content from kodo millet flour 500 g and 500 g maida, 500 g sugar, 500 g fat, 5 g ammonium bicarbonate and 5 g sodium bicarbonate.

V Plant Protection

30. Seed biopriming with MPKV liquied Aceotobacter and PSB cultures @ 300 ml each/10 kg seed in 10 lit. Water for 12 hrs before sowing and application of 50 % recommended N (25 kg/ha). 75% P2O5 (38 kg/ha) and 100% (25kg/ha) at the time of sowing is recommended for getting higher grain yield. Stover yield and monetary returns from rabi sorghum under dryland conditions in scarcity zone of Maharashtra.
31. The seedling root dipping treatment of *kharif* onion with silicic acid @ 2.0 ml/l for 5 minutes at transplanting followed by subsequent three foliar sprays of silicic acid at 20, 40 and 60 days after transplanting is recommended for effective management of purple blotch disease and for getting maximum yield of onion.

VI Agril. Engineering

32. The coefficient and exponent of Modified Universal Soil Loss Equation (MUSLE) as shown by K1 and m in following equation, $SY = K1(Qqp)m KLSCP$, may be changed to 0.039 and 0.135 for uniform slope; 0.076 and 0.30 for Convex-Concave slope; and 35.49 and 1.32 for Concave-Convex slope instead of 11.8 and 0.56 as proposed originally based on data from United States of America.
33. The taluka wise soil erodibility map is recommended for estimating soil loss in Ahmednagar district of Maharashtra.
34. The refined location constants



K, a, b and d in rainfall intensity-frequency-duration relationship for Solapur district have been recommended as 4.57, 0.1934, 0.40 and 0.9187 respectively.

35. Planting of seedlings of suru sugarcane at distance of 45 cm in 5 feet furrows under sub surface drip irrigation scheduled at 80% E_{Tc} every alternate day with 80% RDF (200:92:92, N:P₂O₅:K₂O kg ha⁻¹) through water soluble fertilizers in 30 weekly splits is recommended for medium deep black soil of Western Maharashtra for higher monetary returns.
36. The tabular information and maps developed in Geographical Information System (GIS) by Mahatma Phule Krishi Vidyapeeth for tahsils of western Maharashtra are recommended for estimating weekly water and irrigation requirement of groundnut and brinjal crop at specific locations by surface and drip methods.
37. The crop coefficients given in following table are recommended for the estimation of water requirement of soybean

Week since sowing	Kc values
1	0.56
2	0.61
3	0.68
4	0.77
5	0.87
6	0.97
7	1.05
8	1.10
9	1.12
10	1.09
11	1.01
12	0.90
13	0.76
14	0.62
15	0.50
16	0.45

Alternatively following equation is recommended

$$Kc = 10.84 \left(\frac{t}{T}\right)^5 - 17.063 \left(\frac{t}{T}\right)^4 + 2.3949 \left(\frac{t}{T}\right)^3 + 3.4911 \left(\frac{t}{T}\right)^2 + 0.2369 \left(\frac{t}{T}\right) + 0.5482$$

Where,

K_{ct} = crop coefficient on tth day

t = number of days since sowing

T = total crop period

38. The web and mobile-based applications "Spatial ETr" developed by Mahatma Phule Krishi Vidyapeeth are recommended for the real time and location specific estimation of evapotranspiration for irrigation scheduling.
39. It is recommended to use mobile application "Phule – SANMAN" for survey of present mechanization status and dissemination of information on agricultural machinery as per crop, operation and type of farm machinery.
40. It is recommended to use mobile application "Phule – SAM" for connecting farmers with service providers for agricultural mechanization services like custom hiring, repairs and sales centres of farm machinery.
41. "Phule Fertigation Scheduler" mobile application developed by Mahatma Phule Krishi Vidyapeeth is recommended for deciding the quantity of fertilizers to be applied and the duration of its application for different crops.
42. The following equation expressed as ratio of days after planting to total crop period (t/T) is recommended for estimating Normalized Difference Vegetative Index (NDVI) values of seasonal (Suru) sugarcane grown under water deficit free conditions.

$$NDVI_t = -0.436 \left(\frac{t}{T}\right)^3 - 0.716 \left(\frac{t}{T}\right)^2 + 1.775 \left(\frac{t}{T}\right) + 0.198$$

The following equations are recommended for estimation of crop coefficients from NDVI values useful in real time water requirement of seasonal (Suru) sugarcane.

Growth Phase (50-294 Days since planting)

$$Kc_t = -3.525 (NDVI_t)^2 + 6.749 (NDVI_t) - 1.995$$

Decline phase (295-365 Days since planting)

$$Kc_t = 12.25 (NDVI_t)^2 - 16.79 (NDVI_t) + 6.056$$

K_{ct} is Crop Coefficient on tth day



43. The FAO crop coefficients modified for Rahuri region given in following table are recommended for

the estimation of water requirement of cauliflower, garlic, watermelon and cucumber.

Cauliflower		Garlic		Watermelon		Cucumber	
WAP	Modified Kc	WSS	Modified Kc	WSS	Modified Kc	WSS	Modified Kc
1	0.72	1	0.73	1	0.78	1	0.77
2	0.75	2	0.74	2	0.80	2	0.78
3	0.78	3	0.76	3	0.83	3	0.81
4	0.82	4	0.77	4	0.87	4	0.84
5	0.86	5	0.79	5	0.90	5	0.87
6	0.90	6	0.81	6	0.94	6	0.90
7	0.94	7	0.83	7	0.98	7	0.94
8	0.98	8	0.85	8	1.01	8	0.98
9	1.01	9	0.88	9	1.03	9	1.01
10	1.03	10	0.90	10	1.04	10	1.03
11	1.04	11	0.93	11	1.03	11	1.05
12	1.04	12	0.95	12	1.01	12	1.07
13	1.02	13	0.98	13	0.98	13	1.07
14	0.98	14	0.99	14	0.94	14	1.06
		15	1.00	15	0.89	15	1.04
		16	0.99	16	0.84	16	1.01
		17	0.97			17	0.97
		18	0.93			18	0.92
		19	0.86			19	0.87
		20	0.76				

(WAP- Week after planting, WSS- Week since sowing, Kc- Crop coefficient)

Alternatively, following equations are recommended

Crop	Polynomial Equation
Cauliflower	$Kc_t = 3.4446 \left(\frac{t}{T}\right)^5 - 8.7683 \left(\frac{t}{T}\right)^4 + 6.4669 \left(\frac{t}{T}\right)^3 - 1.4417 \left(\frac{t}{T}\right)^2 + 0.5998 \left(\frac{t}{T}\right) + 0.6483$
Garlic	$Kc_t = -2.6466 \left(\frac{t}{T}\right)^4 + 3.1089 \left(\frac{t}{T}\right)^3 - 0.8255 \left(\frac{t}{T}\right)^2 + 0.3583 \left(\frac{t}{T}\right) + 0.718$
Watermelon	$Kc_t = 3.0269 \left(\frac{t}{T}\right)^5 - 5.77 \left(\frac{t}{T}\right)^4 + 2.0281 \left(\frac{t}{T}\right)^3 + 0.4976 \left(\frac{t}{T}\right)^2 + 0.2706 \left(\frac{t}{T}\right) + 0.7709$
Cucumber	$Kc_t = 1.4224 \left(\frac{t}{T}\right)^5 - 2.3807 \left(\frac{t}{T}\right)^4 - 0.6571 \left(\frac{t}{T}\right)^3 + 1.5681 \left(\frac{t}{T}\right)^2 + 0.1258 \left(\frac{t}{T}\right) + 0.764$

t = number of days since sowing,

T = total crop period



VII Social Science

44. In a research project on “Impact of Mushroom training”, a C:B ratio of 4.44 for fresh Oyster mushroom production and between 1.25 to 1.71 for processed mushroom products indicated mushroom production and processing as a good source of livelihood for the small and marginal farmers as well as landless people. Also, 54 per cent of the trainees suggested increasing the duration of training. Two-third of the respondents closed the mushroom production enterprises after facing major problems of lack of demand in the market (84 per cent) and lack of awareness among the people (87 per cent) about mushroom. Hence, it is recommended that the State Department of Agriculture and Krishi Vidnyan Kendras should create awareness and promote this enterprise among small, marginal farmers and landless people and ICAR and MPKV, Rahuri should increase the duration of mushroom production training from the present one day training. It is also recommended to create strong forward linkages with market and processing projects, create awareness among people about health benefits of mushroom and Mushroom Growers Association should be established with help of State Agriculture and allied development departments, non- government organizations and Krishi Vidnyan Kendra.
45. Research project on Group Farming indicated that groups under Group Farming Scheme were able to seek financial support for establishment of large investment projects which, otherwise, would not had been possible for individual small and marginal farmers. None of the group was following collective crop cultivation / livestock rearing as envisaged in the concept of group farming. It was also revealed that more than 80 per cent of the member farmers had stated the problems of difficulties in procurement of bank loans for groups and electricity supply for their group agro-processing projects being charged at industrial rates rather than agricultural rates. Therefore, it is recommended that the State Agriculture Department should encourage member farmers of Group Farming Scheme to undertake group cultivation / livestock rearing, promote group farming on large scale through success stories for empowering small and marginal farmers, modify certain criteria for easy disbursement of loans and provide electricity at agricultural rate rather than industrial rate to agro-processing projects.
46. Subsurface drainage system for reclamation of waterlogged saline-sodic medium to deep black soils is technically viable, economically feasible and socially acceptable but adoption of in situ green manuring and use of gypsum was found less, also at post reclamation stage, no significant difference was found in Yield and B:C ratio of the sugarcane at different lateral spacings (10 -15 m, 16-20 m & 21-30 m). Hence it is recommended that, to avoid burden of high initial cost and excess drainage of water with closer lateral spacings; extension agencies (KVKs, SAUs & Agril. Department) should motivate farmers through group discussions and result demonstrations to adopt 21-30 m of lateral spacing and adoption of in situ green manuring and use of gypsum (5MT/ha) for reclamation of waterlogged saline-sodic medium to deep black soils.
47. From the study on “Mitigation practices followed by maize growers to control fall armyworm pest” it is inferred that majority of the respondents were educated up to secondary to graduation level, had average extension contact and high level of exposure to mass media. They mostly rely only on chemical

- control of FAW and had low adoption of cultural, physical, biological methods. But for sustainable management of FAW in maize cultivation it is necessary to adopt the chemical methods along with cultural, physical and biological control methods. Therefore it is strongly recommended that, State Agricultural Department with the help of KVKs should promote and start Farmers Field School (FFS) for imparting knowledge, skills and increasing adoption of integrated management of fall armyworm.
48. The data pointed low knowledge and low adoption of the guava growers regarding training and pruning aspects in high density planting of guava (80 % and 85 %),rejuvenation technique (69 % and 75 %), fertilizer schedule (68 % and 83 %), plant protection particularly control of fruit fly and nematodes (58 % and 76 %) and post-harvest technology (52 % and 100 %), respectively. Hence, it is recommended that training programmes and demonstrations need to be organized on these aspects for guava growers by Department of Agriculture in coordination with State Agriculture Universities and Krishi Vigyan Kendras.
 49. From the study it is concluded that, crop rotation against cotton crop ,intercropping and Installation of the tricho-card were a recommended practice to control pink bollworm. but from the study it was found that very few farmer follows Crop rotation (28 %), intercropping (51%) and installed tricho-card (5 %) and other bio-agents. Therefore, from the study it is suggested that Crop rotation, intercropping should promote and bio-pesticides should made available on large scale and at reasonable cost by KVKs and State Department of Agriculture.
 50. The study observed dominance of few local traders (oligospony) in lemon marketing as overwhelming majority of the kagzi lime grower sale their produce at village level through few local traders (90 %). Consequently, lemon growers face marketing constraints like low and fluctuating market prices (86 %) and delayed cash payment (74 %). Therefore, to overcome these constraints it is recommended that lemon growers of this region shall market their produce through formation of lemon producers groups.
 51. The farmers in Maharashtra earned gross economic returns of Rs. 44957 crores and net economic returns of Rs. 4686 crores from Mahatma Phule Krishi Vidyapeeth, Rahuri released onion varieties (Baswant-780, N-2-4-1, N-53, Phule Safed, Phule Suvarna & Phule Samarth during the period of 18 years (2002-03 to 2019-20). It is revealed that an investment of one rupee in onion research and extension helps to generate income of Rs. 30 with 32 percent Internal Rate of Returns (IRR). Therefore, it is recommended that the substantial funds be provided for onion research and extension activities.
 52. The increase of 11 and 14 per cent in employment, 27 and 29 per cent in the output, 34 and 28 percent in income levels while reduction of 7 and 10 per cent in the per quintal cost of cultivation in medium over low and high over medium adoption group, respectively was the result of adoption of recommended package of practices for black gram cultivation. For the cost reduction and output maximization, it is recommended that the farmers shall adopt the recommended package of practices.
 53. The drip irrigation method increased the yield of sugarcane and cotton, respectively by 33 and 43 per cent, saved 41 and 44 per cent of water and 16 and 42 per cent of electric consumption per hectare

- with reduction in carbon emissions by 16 and 42 per cent per hectare, compared to conventional surface Irrigation method. Therefore, it is recommended to encourage the adoption of drip irrigation for climate smart agriculture on wider scale by the sugarcane and cotton cultivators.
54. The major importing countries of banana from India are UAE, Saudi Arabia, Bahrain and Nepal for the last ten years (2010-11 to 2019-20) contributing 73 per cent of total banana export, but the prices received from Kuwait, Qatar, Oman and Iran were Rs.42.14/kg and it's higher than Bahrain and Nepal (Rs. 21.63/kg). It is, therefore, recommended to increase the export of banana to Kuwait, Qatar, Oman and Iran by reducing the export of banana to Bahrain and Nepal in order to get higher returns.
55. Path analysis of turmeric yield contributing nutrient factors revealed major contribution of FYM (43%) followed by Nitrogen (26%). Therefore, it is recommended to apply fertilizers (as per the yield target equation) with FYM for achieving targeted yield.
56. For predicting export of Onion, Grapes, Banana, Mango and Pomegranate from India, it is recommended to use Holt's, Brown's exponential smoothing model, ARIMA (3,1,6), Holt's, ARIMA (0,1,0), respectively and for export values, Brown's for Onion, Banana and Pomegranate, Holt's for Grapes and Mango be used.

Resistant Source for Biotic and Abiotic stress

57. Based on infestation of jassids, morphological and bio-chemical traits the cotton genotype AKH 2006-2 is identified as resistant source against jassid.
58. Based on plant physiological and biochemical parameters, *desi* chickpea varieties JSC 55 (RVG 202), JG 14 (ICCV 92944) and Vijay are recommended as potential donors for heat stress tolerance in the chickpea breeding programme.

4. Extension Education

Extension education is one of the important mandates of the university. The Directorate of Extension Education (DEE) was set up in 1981 with objectives to conduct extension education activities viz., capacity development of all stakeholders including farmers in different agro-ecosituations, to assess and refine the latest agricultural technologies through on farm trials for location specific applications, to demonstrate the improved technology on the farmer's fields, to show the advantages and benefits of improved technology i.e. result demonstration and to solve local problems in the light of research findings and getting feedback for strengthening research and to provide farm information services through various extension activities. The Directorate of Extension Education was set up in 1981 with following objectives:-

- To initiate, plan, organize and implement all extension education programmes and activities under University jurisdiction.
- To provide farm information services through various extension activities
- To solve local problems in the light of research findings and getting feedback for strengthening research.
- To conduct short and long duration trainings for the benefit of farming community in different agro-ecosituations.
- To assess and refine the latest agricultural technology through front line demonstration for its wider adoption through different extension agencies.
- To co-ordinate the extension education activities in the jurisdiction of University.

- To establish co-ordination between Communication Center, Regional Extension Centers, District Extension Centers and Agricultural Technology Information Center functioning.
- To organize the Farmers Rallies & Exhibitions for technology dissemination.

In addition to this, Directorate performs activities like co-ordination of extension education activities in the jurisdiction of University through its various units viz., Agricultural Technology Information Centre (01), Regional Extension Centres (04), District Extension Centres (05), KrishiVigyanKendras (17) and College Extension Blocks (03) performs this pivotal activity by organizing on campus and off campus extension programmes viz., Training programmes, FLDs, Farmers Rallies, Field Visits, Diagnostic Team Visits, On Farm Trials, Exhibitions, Field days etc. for transfer of technologies and collecting feedback.

1. Regional Extension Centres (REC) / District Extension Centres (DEC)

The Regional Extension Centres (2000) and District Extension Centres (2006) have been established in the University jurisdiction to test and transfer the improved technology from time to time in adjoining areas of respective research and educational Institutes. Four RECs are started at the constituent college's viz., Pune, Dhule, Kolhapur and one at Central Campus, Rahuri. Five District Extension Centres (DECs) have been started at different research stations viz., Jalgaon, Padegaon (Satara), Solapur, Digraj (Sangli) and Niphad (Nashik). The RECs consists of four SMS in the subject of Agronomy, Animal Husbandry, Horticulture and Plant protection. These Regional Extension Centres are headed by Associate Professor of Agronomy designated as a Extension



Agronomist. The activities of each REC are governed by Extension Agronomist at regional level which is technically controlled by Director of Extension Education. In each Regional Extension Centres Extension, Agronomist, one Steno and one Driver are working under the T and V Scheme are merged with Extension Education Scheme which is having four Subject Matter Specialists in the discipline of Agronomy, Horticulture, Plant Protection and Animal Science and Dairy Science. These Regional Extension Centres and District Extension Centres does not have separate funding hence University is providing funds from revenue receipts for organization of Extension Activities in their Operational areas. These RECs and DECs are having coordination with Agriculture Technology Management Agency (ATMA) and District Superintending Agriculture Officer (DSAO) for implementation of various Agriculture Programmes for district and also organizing Monthly District Workshop in every month.

The staff under the RECs and DECs usually undertakes activities relating to transfer of technology in the adjacent areas. The activities like monthly district workshops, fortnightly trainings, and demonstrations on farmer's fields, farmers' rallies and technical guidance to farmers are also organized by the centre. Every Regional Extension Center and District Extension Centre are provided with Mobile Crop Dispensary Van with the facilities to undertake soil and water analysis, diagnosis of diseases, insect, pest instantly on the spot in different villages.

2. Krishi Vigyan Kendras (KVKs)

There are seventeen KVKs in the jurisdiction of the University. Out of the total KVKs 13 KVKs are operated by the NGOs, one of Yashwantrao Chavan

Maharashtra Open University (YCMOU) while, 4 KVKs viz., KVK-Dhule, KVK-Mohol (Solapur), KVK-Borgaon (Satara) and KVK-Mamurabad Farm (Jalgaon) are directly under the control of the University. These KVKs have been established with the mandates to organize need-based training in agriculture and allied enterprises to practicing farmers, farm women, rural youth and extension functionaries; to conduct front line demonstrations on farmers' fields on various crop production technologies; to conduct on farm trials/adaptive trials in agriculture and allied enterprises based on location specific problems and to organize different extension activities to disseminate the technologies.

3. Agricultural College Development Block

Practical training in extension education is being given to the students in College Development Blocks. There are about 60 to 100 villages attached to constituent colleges' viz., Pune, Dhule and Kolhapur. The College Development block also serves as a laboratory to transfer the improved technology developed by the university. The viability and usefulness of technology developed by the university is tested under different field conditions and farming situations. The field staff working at different blocks provides guidance and help to the farming community. The extension staff also extends the efforts to evaluate and record the expected social and economical changes among farmers. The planning and implementation of extension programmes is carried out by the Department of Extension Education at different colleges.

4. Agricultural Technology Information Centre (ATIC)

The National Agricultural Technology Project (NATP) provided funds to establish Agricultural Technology Information Centre (ATIC), single window



delivery dissemination and supporting system in 2001 at MPKV, Rahuri. The extension activities like field visits, replying the queries of the farmers and other stakeholders, diagnostic services in coordination with the other departments of University are being performed by the ATIC. Besides, the seed and seedlings, processed products and publications are also sold through ATIC to the end users. Helpline, Kisan Call Centre, separate website and Video Conferencing Unit have started its functioning in this centre for solving the problems of the farmers. The ATIC provides diagnostic services, organizing and participating in Monthly District Workshops and giving advisory services.

Objectives

The center is functioning with the following objectives

- To provide greater coordination and intensive interaction between the researchers and technology users beyond individual units of research institutions in contributing towards the dissemination of information.
- To serve as a "Single Window System" with an objective to help Farmers and other stakeholders such as Farmer-Entrepreneurs, Extension workers, Development agencies, Non-Government Agencies (NGOs) and private sector organizations to providing solutions to their location- specific problems in agriculture and make available all the technological information along with technology inputs and products for testing and use by them.
- To build up required confidence among farmers and to strengthen linkage between the University and the farmers.
- To provide diagnostic and advisory services such as soil and water testing, plant and livestock health diagnosis and advisory services accordingly.
- To sale and distribute improved products emerging as a result of research being done at SAU's like seeds, planting materials, livestock breeds, fish seed, poultry trains and processed products etc.
- To provide an overview of improved technology through published literatures and other communication materials.
- To overcome technology dissemination loss by providing direct access of farmers to improved expertise as well as technological products.
- To provide an opportunity to University to have resource generation through sale of their technologies.
- Participation in state festivals & exhibitions.

Diagnostic and Advisory service

- Diagnosis of plants/crops problem
- Management of field problems
- Analysis of soil samples
- First hand information to approaching farmers

5. Press, Publicity and Publications

The Communication Centre of Mahatma Phule Krishi Vidyapeeth, Rahuri was established in May 1982 for effective use of mass media in transfer of technology. The unit produces different type of farm literature, publicity of news items and involved in organization of exhibitions, facilitating broadcasting of Agril. Programmes for transfer of technology through All India Radio, Doordarshan and Private Channels. The centre publishes Krishi Darshani, an annual farm diary which is very popular among the farmers. Besides Shri Sugi, a periodical is published before every season of the year. Also an e news-MPKV Happenings and e-Varta are published regularly. Besides DVDs of various crops are prepared by this centre. A Printing Press is also operated by the centre for printing work.

Mechanisms for Research-Extension Linkage

- Joint Agresco
- Zonal Agricultural Research & Extension Advisory Committee (ZAREAC)
- Monthly District Workshops
- Training Programmes
- Diagnostic Team Visits

Extension Outreach Programmes

• ICAR Farmer FIRST programme

The ICAR Farmer FIRST programme entitled “Socio-Economic Empowerment of Farmers through Farming System Interventions for Sustainable Agriculture Development in Ahmednagar District” has been sanctioned to MPKV, Rahuri from 2016-17. The project is being implemented in Chinchvhire and Kangar villages on the theme Integrated Farming Systems. Various extension programmes are being undertaken through this project for the socio-economic development of farmers.

• ProSoil Project

The ProSoil Project is being implemented in MPKV, Rahuri jurisdiction is collaborating with GIZ, India and MANAGE, Hyderabad on developing and strengthening digital agricultural advisory service and disseminating the agro-advisories through the digital platforms developed by GIZ and MANAGE, Hyderabad since 2016- 17. The NICESSM digital platform was strengthened in Pro-Soil Project which is being implemented on pilot basis in 13 villages of 2 blocks in 2 districts namely Ahmednagar and Dhule comprises Parner and Sakri block respectively. The MPKV has identified a team of 19 MPKV scientists as Content Validators and 9 Subject Matter Specialists from KVKs as a Content Creators and one IT Network

Server and Website Co-ordinator. At present we are reached more than 19,000 farmers and disseminated More than 1.5 lakh agro advisories, in the form of queries’ solution, SMS, posters, video URLs and documented through this NICESSM agro advisory platform.

Major extension activities

- A programme on Retrospection – 20 was organized on 01/04/2021 at Central Campus, Rahuri through online/ virtual mode. Hon’ble Vice Chancellor Dr. P. G. Patil, presided over the function, while Dr. S. N. Puri, Hon’ble former Vice Chancellor, MPKV, Rahuri, CAU, Imphal was present as a chief guest. On this occasion, the reports regarding research, extension education, education, agril. engineering, lower agril. education, administration, Financial and infrastructure development activities conducted during the year-2020 were presented by Dr. S.R. Gadakh, Director of Research and Extension Education, Dr. A.L. Pharande, Dean (F/A), Shri. Mohan Wagh, Registrar, MPKV, Rahuri, Shri. Vijay Kote, Comptroller and Shri. M.P. Dhoke, University Engineer respectively. The university publication Krishidarshani-2021 was released at the auspicious hands of dignitaries through virtual mode. The programme was participated by Hon’ble University Executive Council Members and other dignitaries. All Associate Deans, HODs, Professors, Scheme Incharge, staff, officials’ students and members of Farmers- Scientists Forum, farmers in large number were present virtually for the programme.
- The Online Zonal Agricultural Research and Extension Advisory Committee (ZAREAC) meeting for kharif-2021 was organized by MPKV, Rahuri in co-ordination with the State Department of Agriculture, MS on 31st May, 2021 for Nashik, Pune and Kolhapur divisions. Vice Chancellor



- Dr. P. G. Patil presided over the meeting. Shri. Dheeraj Kumar, Commissioner (Agriculture), M. S., Shri. Rahul Rekhawar, Managing Director, MAHABEEJ, Akola, Directors Dr. S. R. Gadakh, Shri. Vikas Patil were present on the occasion. Dr. S. R. Gadakh, Director of Extension Education, MPKV, Rahuri made brief presentation on extension, various recommendations and released varieties during 2020 and guided the participants, While, Heads of Departments, Joint Directors of Agriculture Shri. Birajdar, Shri. Padwal, Shri. Patil, District Supt. Agril. Officers, PD, ATMA, Associate Directors of Research, Crop Specialists, Heads of KVKs, Incharge, RECs and DECS, scientists and officers of Agriculture Department participated in the discussion. In all 173 participants including SDAOs, TAOs and Programme Co-ordinators from KVKs and Scientists from university attended the said meeting.
- The online training programme on Indigenous Cow Management Techniques was jointly organized by Regional Extension Centre, Pune and Agriculture Technology Information Centre, Rahuri on June 2, 2021. Dr. S. R. Gadakh, Director of Research and Extension Education presided over the programme. Associate Dean COA, Pune Dr. S.M. Masalkar was present for the programme. University scientists and other experts guided the farmers. In all about 50 farmers participated in the training programme.
 - The Krishi Din was organized during July 1, 2021 by MPKV, Rahuri in the university jurisdiction. This programme was organized in memory of Former Chief Minister of Maharashtra Late Vasant Naik. The programme was participated by Vice Chancellor Dr. P. G. Patil, Director General, MCAER, Pune Shri. Vishwajeet Mane, Zonal Manager, Bank of India Shri. Vinod Kumar, Dean (F/A) Dr. A.L. Pharande and Director of Research and Extension Education Dr. S. R. Gadakh. The university has planned tree plantation drive during 1-7 July, 2021. In all 75,000 saplings of various trees including fruit crops will be planted under university jurisdiction.
 - The tree plantation programme Vanmahotsav-2021 was organized by the university on July 7, 2021. Hon'ble Minister for Rural Development and Labour, Govt. of Maharashtra Shri. Hasan Mushrif, President Adarsha Gaon Yojana Shri. Popatrao Pawar, Vice Chancellor Dr. P. G. Patil, District Collector, Ahmednagar Shri. Rajendra Bhosale, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education and Associate Deans and other dignitaries were participated in the programme and planted the saplings. Large number of university staff members participated in this tree plantation programme.
 - A review meeting of university activities was organized on August 28, 2021 in presence of Shri. Vishwajeet Kadam, Hon'ble State Minister for Agriculture, Ku. Aditi Tatkare, Hon'ble State Minister for Industries, Tourism Shri. Prajakta Tanpure, Hon'ble State Minister for Urban Development, Energy, Members of Legislative Assembly Shri. Rohit Pawar, Shri. Lahu Kanade and Hon'ble Executive Council Members of University. Vice Chancellor Dr. P. G. Patil has given brief presentation about various achievements of university. The dignitaries visited various sections of university and guided for future development for betterment of farming community. Dr. S. R. Gadakh, Director of Research and Extension Education, Associate Deans, Officers of the university were present on this occasion.
 - The Zonal Agricultural Research and Extension Advisory Committee meeting for Rabi and Summer



- 2021-22 was organized on September 9, 2021 through virtual mode by Mahatma Phule Krishi Vidyaapeeth, Rahuri in collaboration with Department of Agriculture, M.S. Vice Chancellor Dr. P. G. Patil presided over the meeting. Shri. Dheeraj Kumar, Commissioner (Agriculture), M. S., Directors Dr. S. R. Gadakh, Shri. Vikas Patil were present on the occasion. Dr. S. R. Gadakh, Director of Extension Education, MPKV, Rahuri made brief presentation on extension, various recommendations and released varieties during 2020 and guided the participants, While, Heads of Departments, Joint Directors of Agriculture Shri. Birajdar, Shri. Padwal, Shri. Patil, District Supt. Agril. Officers, PD, ATMA, Associate Directors of Research, Crop Specialists, Heads of KVKs, Incharge, RECs and DECS, scientists and officers of Agriculture Department participated in the discussion. In all 157 participants including SDAOs, TAOs and Programme Co-ordinators from KVKs and Scientists from university attended the said meeting.
- MPKV, Rahuri organized an online Farmers-Scientists Forum Interaction Meet on eve of the Kharif season on July 9, 2021. Vice Chancellor Dr. P. G. Patil presided over the programme. Dr. S. R. Gadakh, Director of Research and Extension Education, Associate Deans, Heads of Department, Associate Directors of Research were present on this occasion. University scientists guided the farmers on kharif season crop production technologies viz., Soybean, Redgram, Cotton, Onion production technologies. Farmers in large number along with scientists of Krishi Vigyan Kendras, Regional Extension Centres and District Extension Centres of university jurisdiction participated in the online programme.
 - MPKV, Rahuri participated in the Ranbhajya Mahotsav organized by the Agriculture Department of Govt. of Maharashtra on eve of the World Tribal Day on August 9, 2021. The university KVKs, Regional Extension Centres participated in the exhibitions at district level in coordination with the State Department of Agriculture.
 - Farmers Interaction Programme: A programme on Farmers Interaction with Hon'ble Governor of Maharashtra Shri. Bhagat Singh Koshyari was held on October 27, 2021 at Central Campus, MPKV, Rahuri. Hon'ble Governor sir interacted with farmers on various issues pertaining to agriculture viz., organic farming, group farming approach, Geographical Indications in agriculture, innovative marketing strategies. Vice Chancellor Dr. P. G. Patil, Director of Research and Extension Education Dr. S. R. Gadakh, Dean(F/A) Dr. P.N. Rasal were present for the said programme. Farmers from university jurisdiction participated in the programme.
 - A State level Workshop on Pomegranate Production Technology was organized in coordination with State Department of Agriculture and Maharashtra Pomegranate Growers Research Association, Pune at Satmane, Malegaon on November 14, 2021. Shri. Dadaji Bhuse, Hon'ble Minister of Agriculture, M. S. was the Chief Guest, Shri. Dilip Borase, MLA, Dr. S. R. Gadakh, Director of Research and Extension Education, Shri Prabhakar Chandane, Ex-President, Maharashtra Pomegranate Growers Research Association, Pune were present for the programme. Large numbers of farmers were participated in the programme.
 - Retrospection – 2021: A Magova (Retrospection) programme to review the various activities of the University during the year 2021 was organized in the university on January 6, 2022. Shri. Shri. Radhakrishna Game, Divisional Commissioner,



Nashik was the Chief Guest, while, Shri. RajendraBhosale, Collector, Ahmednagar, Shri. RajendraKshirsagar, Chief Executive Officer, ZillaParishad, Ahmednagar, PadmashreeShri. PopatraoPawar, Bijmata Mrs. RahibaiPopere were the guests of honour for the function. Vice Chancellor Dr. P. G. Patil presided over the function. Directors, Associate Deans, Officers of the university were present. Dr. S. R. Gadakh presented the research and extension activities of the past year. Dr. P.N. Rasal, Dean, Faculty of Agriculture , Dr. DilipPawar, Registrar, Shri. SukhdeoBalame, Comptroller and Shri. MilindDhoke, University Engineer presented the reports on education, administration, financial and infrastructural developments respectively. On this occasion PadmashreeShri. PopatraoPawar, PadmashreeBijmata Mrs. RahibaiPopere and Annamata Mrs. MamataiBahngare were felicitated. The popular University publication Krishi Darshani-2022 was released during the function. MPKV Calendar-2022, depicting monthwise agricultural information was released on the occasion of Magovaprogramme.

- Rabi Technology Day and ShivarPheri: Rabi Technology Day and ShivarPheriwas organized on March 9, 2022 in coordination with State Department of Agriculture in the university. Director of Extension education and Research Dr. S. R. Gadakh presided over the function. Director, Extension and Training, Dept. of Agriculture Shri. VikasPatil, MPKV Idol EntrepreneurShri. SahebraoNavale, Associate Deans, Officers of the university and Dept. of Agriculture, MS were present on this occasion. An exhibition depicting the university technologies was also organized and field demonstration of 39 varieties of different rabi crops was organized for farming community and

other stakeholders. University scientists guided the farmers.

- MOU with GIZ, India: MPKV, Rahuri is collaborating with GIZ, India and MANAGE, Hyderabad on developing and strengthening digital agricultural advisory service; and disseminating the agro-advisories through the digital platforms developed by GIZ, India and MANAGE, Hyderabad since 2015. The Memorandum of Understanding was signed between GIZ, India and MPKV, Rahuri on December 3, 2021 for upscaling the activities to deliver the NICESSM agro-advisory service for all the ten districts in the jurisdiction of MPKV, Rahuri.

KVK Activities

- A Five days training programme on ‘Value Addition in Milk, Fruits and Vegetables’ was organized by KVK, Dhule during May 19-23, 2021. KVK Dhule. Vice Chancellor Dr. P. G. Patil was presided over the programme, while Dr. Lakhan Singh, Director, ICAR-ATARI, Pune was chief guest. Dr. S. R. Gadakh, Director of Extension Education, MPKV, Rahuri and other university expert guided the participants on various aspects about value addition techniques for milk, fruits and vegetable processing. In all more 100 participants participated in the programme.
- The Scientific Advisory Committee (SAC) meetings were held at KrishiVigyan Kendra, Dhule, Borgaon, Mohol and Jalgaon during May 25-28, 2021 respectively. The meeting was organized to review the progress made by KVK and their future action plan. The SAC meeting was chaired by Hon’ble Vice Chancellor Dr. P. G. Patil and members of SAC participated in the meeting and guided the KVK staff for effective implementation of the various activities for the farming community.
- RashtriyaMahilaKisan Day: KVK, Dhule,



- Mohol, Borgaon and Jalgaon celebrated RashtriyaMahilaKisan Day on October 15, 2021. Online training programmes were organized on the occasion of at KrishiVigyan Kendra, Dhule and KrishiVigyan Kendra, Mohol. The university KVKs had organized online lectures and training programme on Dairy business, Aonla processing, Vermicomposting, Beekeeping and Mushroom cultivation under the concept of Agriculture Entrepreneurship Development of women.
- Training programme on Commercial Goat Rearing Techniques organized at KVK, Dhule : A three days training programme on Commercial Goat Rearing Techniques organized was organized during February 10-12, 2022 in co-ordination with ATARI, Pune, Zone -VIII. Dr. C. D. Deokar, Associate Dean, College of Agriculture, Dhule presided over the programme. Shri. Wakchaure, Aswmedha Medicare, Dhule, Dr. D.R. Nandre, Programme Co-ordinator, KVK, Dhule and other Subject Matter Specialists were guided the participants on various aspects of commercial goat rearing. In all 50 farmers participated in the training programme.
 - Rabi KisanMela at KVK, Mohol: The KrishiVigyan Kendra, Mohol, Dist. Solapur organized a Rabi KisanMela in collaboration with Crop Care Federation of India, New Delhi for the farmers in the jurisdiction on January 19, 2022. Mrs. NirmalaPatharwal, Executive Director, Crop Care Federation of India, New Delhi was present as Chief Guest and Dr. T. R. Walkunde, Programme Coordinator, KVK, Mohol chaired the function. The safety kits were distributed to the participant farmers by UPL Pvt. Ltd. The KVK Subject Matter Specialists Shri. D. N. Kshirsagar (FST), Dr. S. G. Jadhav (Agro.) and Dr. P. N. Madavi (Plant Prot.) guided the farmers during the programme.
 - The Agricultural Mechanization Day was observed on February 17, 2022 by KVK, Dhule, Borgaon, Satara and Mamurabad Farm, Jalgaon. On this occasion experts guided the farmer participants on various aspects of agricultural mechanization. The large number of farmers participated in the programme.
- ICAR Farmer FIRST Activities**
- Vice Chancellor Dr. P. G. Patil, Director, ICAR-ATARI, Zone-VIII, Pune Dr. Lakhan Singh along with Principal Investigator and Co-Principal Investigators of the the ICAR Farmer FIRST programme visited the MPKVs ICAR FFP villages Chinchvihire and Tambhere on September 19, 2021. The team visited various kharif demonstration plots dal mill, vermicompost unit and other activities of the project. The dignitaries guided the farmer participants in these villages. In all 50 farmers were participated in the programme.
 - The Online Institute Advisory Committee meeting of ICAR Farmer FIRST Programme was organized on June 23, 2021 under the chairmanship of Dr. S. R. Gadakh, Director of Extension Education, MPKV, Rahuri. Dr. Lakhan Singh, Director, ICAR-ATARI, Pune and other members of IAC attended and guided for effective project implementation.
 - Aonline training programme on Kharif Season Crop Management Technologies under ICAR Farmer FIRST programme was organized on May 28, 2021. Dr. N.S. Kute, Principal Scientist, AICRP on Pulses, Dr. M. P. Deshmukh, Soybean Breeder, ARS, Kasbedigras and other experts from university guided the participants pertaining to kharif season crop management techniques. During this occasion Dr. P. Venkateshan, ICAR-NAARM, Hyderabad was present and guided the farming community. About 70 farmers participated in the



training programme.

- An off campus training programme on Rabi Sorghum and Chickpea Production Technology was organized on October 14, 2021 at Tambhere village under the ICAR Farmer FIRST programme. Dr. N.S. Kute, Principal Scientist, Pulse Improvement Project, Dr. P. B. Kharde, PI, ICAR FFP, sorghum scientists Dr. S. S. Gadakh, progressive farmers Shri. TarachandGagare, Shri. BabanPathare were present on this occasion. About 50farmers and farm women attended the one day training programme.
- The two training programmes were organized on Backyard Poultry under the ICAR Farmer FIRST programme in Chinchvihire, Kangar, Tambhere and Kanadgaon villages in coordination with the State Department of Agriculture during December 23-24, 2021. University scientists Dr. RavindraNimse guided the farmers and farm women on different aspects of backyard poultry. Farmers queries related to poultry were also solved during the interactions. These training programmes were organized under the guidance of Dr. S. R. Gadakh, Director of Research and Extension Education and Dr. P. B. Kharde, Officer Incharge, Communication Centre and PI, ICAR FFP. In all more than 100 farmers participated in the training programme.
- Exposure visit of ICAR Farmer FIRST programmeorganized : A one day exposure visit of ICAR Farmer FIRST programme participant farmers and farm women was organized to Ralegan Sindhi, Hivere Bazaar and progressive farmer field of Mr. Rahul Rasal at Nighojvillage of Parnertaluka Dist. Ahmednagar on December 6, 2021. Dr. P. B. Kharde, PI and Co-PIs Dr. B. A. Deshmukh, Dr. S. S. Sadaphal participated in the visit and guided the participants. In all total 35 farmers were participated in the exposure visit.
- A one day training programme on Pomegranate Production Technology was organized under the ICAR Farmer FIRST programme in coordination with Department of Agriculture in online mode on March 17, 2022. Dr. P. B. Kharde, Officer Incharge, Communication Centre and PI, ICAR FFP and staff of Agriculture Department were present on this occasion. Soil Scientist Dr. Anil Durgude guided the farmers on soil health and integrated nutrient management for pomegranate and Entomologist Dr. Ashok Walunj on pest management in pomegranate during the technical session. More than fifty pomegranate growers of Tambhere village were benefitted through training programme.
- A one day training programme on Integrated Farming Sysytem was organized under the ICAR Farmer FIRST programme in coordination with Department of Agriculture in online mode on March 24, 2022. Soil Scientist Dr. AdinathTakate guided the farmers on soil health and integrated nutrient management while Dr. Mahendra Mote on dairy management practices during the technical session. More than sixtyprogressive farmers ofKanadgaon village were benefitted through this training programme.



Online and Offline Extension Education Activities (2021-22)

Sr. No.	Activity	(2021-22)	
		No. of activities	Participant
1	Training Programmes organized		
i.	For farmers, farm women and youth	694	39204
ii.	For staff of development department (State Agril. Dept. and others)	92	2760
iii.	Interaction training programme between farmers and scientists	148	4522
2	Workshop, seminars participated		
i.	Monthly district workshops	83	2075
ii	Seminars/Conferences	54	3970
iii	Farmer Scientists Forum meetings organized	75	1338
3	Demonstrations and farm trials		
i.	Method demonstrations	389	3835
ii.	Result demonstrations / Assessment Trials (OFTs)	620	620
iii.	Front line demonstrations & Adaptive trials	870	870
4	Other extension education programmes		
i.	Meeting and group discussion (Kisan Goshti etc.)	242	7022
ii.	Field visit/shivar pheries	380	4935
iii.	Field days	198	1547
iv.	Farm and home visits	514	514
v.	Farmers rallies organized and participated	16	Mass outreach
vi.	Agril. Exhibition organized/ participated	22	
vii	Diagnostic team visit	484	2420
viii.	Surveillance team visit		
5	Media Coverage		
i	Programme News	2052	Mass outreach
ii	AIR Programmes	272	
iii	TV Programmes	54	
iv	University Programmes	162	
7	Other Extension Activities		
i.	Agro Advisories (Telephone, SMS etc.)		156500
ii.	No. of water, soil samples tested & Soil Health Card issued		3015
iii.	No. of pests samples tested		217
iv.	No. of diseases samples tested		319
v.	Helpline/Telephone Calls attended		41695



5. Major Events

April 2021

1. Virtual classrooms inaugurated at MPKV, Rahuri



April 16, 2021. The Indian Council of Agricultural Research (ICAR), New Delhi and World Bank funded National Agriculture Higher Education Project (NA-HEP) has funded eighteen SAUs and ICAR institutes of the country for establishing virtual classrooms. These virtual classrooms were inaugurated at the auspicious hands of Shri. Narendra Singh Tomar, Hon'ble Minister of Agriculture and Farmers Welfare, GoI, New Delhi in virtual mode. Shri. Purushottam Rupala, Hon'ble Minister of State for Agriculture and Farmers Welfare, GoI, New Delhi, Dr. Trilochan Mohapatra, Secretary, DARE and Director General, ICAR, New Delhi, Shri. Sanjay Kumar Singh, Secretary, ICAR, New Delhi, Dr. R. C. Agrawal, DDG (Education), ICAR, New Delhi, Dr. P. G. Patil, Vice Chancellor, MPKV, Rahuri, Dr. Prabhat Kumar, National Coordinator, NAHEP, New Delhi, Dr. A. L. Pharande, Dean, Faculty of Agriculture, MPKV, Rahuri were present in virtual mode for this programme. MPKV is the only SAU from Maharashtra to establish this facility. It will be useful for webcasting lectures of the faculty and will be benefitted to the students. Associate Deans Dr. P. N. Rasal (PGI), Dr. M. C. Ahire (PAHCOA, Halgaon), Nodal Officer of Virtual classroom Dr. M. R. Patil and staff were present on this occasion.

2. MAGOVA - 2020 programme organized in virtual mode



April 1, 2021. Magova-2020 (Retrospection), a programme to review the various University activities of 2020 was organized in the university in virtual mode. Dr. S. N. Puri, Former Vice Chancellor, MPKV, Rahuri and CAU, Imphal was the Chief Guest. Vice Chancellor Dr. P. G. Patil presided over the programme. The Executive Council members Prof. Nathaji Chougule, Mrs. Sunita Patil, Dr. Pankajkumar Mahale, Dean, F/A Dr. A. L. Pharande, Director of Research and Extension Education Dr. S. R. Gadakh, Registrar Shri. Mohan Wagh, Comptroller Shri. Vijay Kote, University Engineer Shri. Milind Dhoke were present online for this programme. Dr. Puri in his address said that we are facing new challenges in agriculture. Thus, the farmers need solution to these problems. Hence, scientists need to work on these issues, he said. Vice Chancellor Dr. Patil reviewed the significant activities of the university and assured that the university will be in the forefront to face the challenges and guide the farmers. The popular University publication *Krishi Darshani-2021* was released during the programme. Dr. Gadakh welcomed the dignitaries and reviewed the research and extension activities. The respective officers reviewed their activities of the past year. Dr. B. A. Deshmukh anchored the programme, while, Dr. P. B. Kharde, Officer Incharge, Communication centre proposed vote of thanks.

3. Three Weeks National Online Certificate Course organized



April 5-25, 2021. The Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management, MPKV, Rahuri had organized a three week national online certificate course on Post-Harvest Management of Horticultural Crops in an online mode through zoom video conferencing application. Dr. S. R. Gadakh, Director of Research and Extension Education, MPKV, Rahuri, Dr. S. N. Jha, ADG, ICAR, New Delhi, Dr. R. T. Patil, Ex-Director, CIPHET, Ludhiana, Dr. Nachiket Kotwaliwale, Director, CIPHET, Ludhiana, Dr. N. J. Thakor, Ex.Dean, Faculty of Agricultural Engineering, DBSKKV, Dapoli, Dr. Rajeshwar Matche, Chief Scientist, Food Packaging Technology, Professor, ACSIR, CSIR-CFTRI, Mysore, Dr. R. K. Vishwakarma, Principal Scientist, CIPHET, Ludhiana, Dr. S. K. Chakraborty, Principal Scientist, Agroproduce Processing Division, ICAR-CIAE, Bhopal, Dr. S. K. Singh, Former Business Head, Amrit Hatcheries Pvt. Ltd. and Professor, SHIATS University, Allahabad, Mr. Swapnil Kharde, Assistant Professor, IMERT, Pune and Consultant, Digital Marketing, Pune, Dr. V. P. Kad, Associate Professor, Dept. APE, Dr. ASCAE&T, MPKV, Rahuri were the resource persons for this training programme. The CAAST-CSAWM

had selected 114 eligible candidates for the certificate course. It was inaugurated by Dr. K. Alagusundaram, DDG (Agricultural Engineering), ICAR, New Delhi. The certificate course included 49 sessions on different topics on Post Harvest Management of horticultural crops. Dr. A. K. Singh, DDG (Horticulture), ICAR, New Delhi was the Chief Guest for the valedictory function. Vice Chancellor Dr. P. G. Patil chaired the function. Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T, MPKV, Rahuri welcomed the dignitaries. Preamble was given by Dr. S. D. Gorantiwar, Head, Department of Agricultural Engineering and Principal Investigator, CAAST-CSAWM, MPKV, Rahuri. Dr. M. G. Shinde, Co-PI, CAAST-CSAWM extended the vote of thanks. Dr. N. J. Deshmukh, Research Associate (Plant Prot.), Dr. M. N. Baviskar, Research Associate (Horticulture) and Er. M. A. Tamboli, Research Associate (Computer) were the Programme Co-ordinators. Dr. M. N. Baviskar, Research Associate (Horticulture) anchored the programme.

May 2021

4. Hon'ble Union Minister Shri. Sanjay Dhotre visited MPKV, Rahuri



May 14, 2021. Shri. Sanjay Dhotre, Hon'ble Union Minister of State for Telecommunications, Electronics and Information Technology, GoI, New Delhi visited MPKV, Rahuri. Vice Chancellor Dr. P. G. Patil welcomed him on his arrival. Dr. Patil briefed him about the various activities of the university. Dean, F/A Dr.

A. L. Pharande and Director of Research and Extension Education Dr. S. R. Gadakh informed him about the education, research and extension activities, respectively. Shri. Dhotre visited the solar unit of student hostel. He also visited the Centre for Advanced Agricultural Science and Technology (CAAST) project and Irrigation Park of the university. Shri. Dhotre applauded the drone technology demonstrations. Tree saplings were planted at the hands of Shri. Dhotre and Vice Chancellor Dr. Patil in the university premises. Registrar Dr. M. S. Mane, Associate Dean, PGI Dr. P. N. Rasal, Comptroller Shri. V. E. Kote and University Engineer Shri. Milind Dhoke were present on this occasion.

5. Hon'ble Minister Shri. Jayant Patil visited NARP, Kolhapur



May 31, 2021. Shri. Jayant Patil, Hon'ble Minister of Water Conservation, GoM visited the university's National Agriculture Research Project (NARP), Shen-da Park, Kolhapur. The Associate Director of Research Dr. Uttam Hole welcomed him. Dr. Hole briefed him about the important contribution of NARP and also about the research achievements of the centre. Shri. Patil expressed satisfaction and gave his best wishes for the future work of the centre. Scientists of NARP, Kolhapur were present on this occasion.

6. Zonal Agricultural Interface for kharif organized

May 31, 2021. The Zonal Agricultural Research and Extension Advisory Committee (ZAREAC) meeting for kharif-2021 was organized by MPKV, Rahuri in co-ordination with the State Department of Agri-



culture in online mode. Vice Chancellor Dr. P. G. Patil presided over the programme. Shri. Dheeraj Kumar, Commissioner (Agriculture), M. S. was the Chief Guest. Shri. Rahul Rekhawal, M. D., MAHABEEJ, Akola, Dr. A. L. Pharande, Dean, F/A, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. V. S. Shirke, Director, HRD, MCAER, Pune were present on this occasion. Vice Chancellor Dr. Patil in his address hoped that the new varieties and recommendations of the university will benefit the farmers. He said that the university along with Agriculture Department has worked hand in hand during the COVID situation. Shri. Dheeraj Kumar said that there is forecast of good rains. Farmers need to adopt new technologies for taking benefit of this situation. Dr. Gadakh gave the introductory remarks and made a presentation on the latest research, new varieties, improved implements and recommendations released during the Joint AGRESKO and also presented the extension activities. Dr. P. B. Kharde, Officer Incharge, Communication Centre gave the introductory remarks. Dr. B. A. Deshmukh anchored the programme, while, Dr. G. K. Waman expressed thanks. Heads of Departments, Joint Directors of Agriculture, District Supt. Agril. Officers, PD, ATMA, Associate Directors of Research, Crop Specialists, Heads of KVKs, Incharge, RECs and DECS, scientists and officers of Agriculture Department participated in the discussion.

7. Scientific Advisory Committee meetings of KVKs organized



May 25 to 28, 2021. The Scientific Advisory Committee (SAC) meetings of KVK, Borgaon, KVK, Dhule, KVK, Mamurabad and KVK, Mohol were organized in online mode by the Directorate of Extension Education, MPKV, Rahuri. Vice Chancellor Dr. P. G. Patil chaired these meetings. Dr. Patil called for coordinated efforts of KVKs and line departments of the districts for effective transfer of agricultural technologies to the farmers. He emphasized on more involvement of women farmers in training programmes. Dr. Lakhan Singh, Director, ICAR-ATARI, Pune also addressed the scientists on this occasion. Dr. S. R. Gadakh, Director of Research and Extension Education gave the welcome and introductory remarks. The Heads of KVKs Mr. Mohan Shirke, Dr. Dinesh Nandre, Dr. Hemant Baheti and Dr. Tanaji Walkunde presented the action plan of their respective KVKs. Officers of line departments and progressive farmers participated in these SAC meetings.

8. Online workshop organized on TES (Teacher Evaluation System) Application

May 27, 2021. The Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management organized an online workshop on TES (Teacher Evaluation System) Application for faculty of MPKV, Rahuri. Dr. S. D. Gorantiwar, PI, CAAST-CSAWM and Head, Dept. of Agril. Engg. was the Convener and Dr. M. G. Shinde CO-PI,

CAAST-CSAWM was Coconvener of this workshop. Dr. R. P. Andhale, Associate Professor (Agronomy) and Member, CAASTCSAWM was organizing secretary of this workshop. Dr. A. L. Pharande, Dean, F/A presided over the workshop. Dr. Shinde gave preamble of CAAST-CSAWM project. Dr. Gorantiwar briefed about TES (Teacher Evaluation System) Application. Dr. Pharande in his address mentioned that Teacher Evaluation is important for tracking the quality of teaching, improving the skills of the teachers and knowing performance of teaching in their academic flow and this application will be helpful to evaluate the performance of the faculties/teachers regularly. Er. M. A. Tamboli, Research Associate, CAAST-CSAWM demonstrated Teacher Evaluation system application to the faculty. The Associate Deans, Head of Departments attended this workshop. Dr. Andhale extended the vote of thanks and Dr. S. N. Ghadge anchored the programme. Er. M. A. Tamboli, Dr. S.A. Dhenge and Dr. Shubhangi Ghadge were the programme coordinators of this workshop.

9. Good revenue to the university through mango sale

May 17, 2021. The Mahatma Phule Krishi Vidyapeeth, Rahuri earned nearly Rs. 1 crore of revenue through the sale of mango at the central campus. This is the highest sale in the last four years. The major share of the sale was that of mango cultivation under the Chief Scientist (Seed) followed by Horticulture. This could be achieved under the guidance of Vice Chancellor Dr. P. G. Patil and Director of Research Dr. S. R. Gadakh. They congratulated Dr. S. A. Ranpise, Head, Department of Horticulture, Dr. A. V. Solanke, Chief Scientist (Seed) and staff, labour working under them. The sale was auctioned through e tender. The university mango cultivation comprises of varieties like Kesar, Langra, Hapus, Totapuri, Sai Sugandh, Vanraj etc.

10. Online training programme on Kharif Crop Management organized under ICAR FFP



May 28, 2021. An online training programme on Kharif Crop Management was organized under the ICAR Farmer FIRST programme in coordination with Department of Agriculture. Dr. S. R. Gadakh, Director of Research and Extension Education chaired the programme. Dr. Lakhan Singh, Director, ICAR-ATARI, Dr. P. Venkatesan, Principle Scientist, ICAR-NAARM, Hyderabad, Pune, Shri. Mahendra Thokle, Taluka Agriculture Officer, Rahuri, Scientists Dr. A. V. Solanke, Dr. M. P. Deshmukh, Dr. N. S. Kute, Dr. P. B. Kharde, Officer Incharge, Communication Centre and PI, ICAR FFP were present on this occasion. Dr. Gadakh in his address hoped that the guidance of scientists through this training programme will certainly benefit the farmers. Dr. Kharde gave the welcome and introductory remarks. Dr. S. S. Sadaphal anchored the programme, while, Dr. B. A. Deshmukh proposed thanks. Farmers of ICAR FFP villages participated in this programme.

11. Retirement benefits to university personnel on the same day of superannuation

May 31, 2021. Fifty two officers and staff of MPKV, Rahuri attained superannuation. All retired personnel were handed the superannuation orders at the hands of Vice Chancellor Dr. P. G. Patil in a programme organized for them. Dr. A. L. Pharande, Dean, F/A, Dr.



S. R. Gadakh, Director of Research and Extension Education, Dr. M. S. Mane, Registrar and Shri. V. E. Kote, Comptroller were present on this occasion. Vice Chancellor Dr. Patil handed the superannuation orders, leave encashment order and gross provident fund to the retired personnel. This smooth administrative procedure for the personnel attaining superannuation has been initiated under the guidance of Vice Chancellor Dr. P. G. Patil.

June 2021

12. Hon'ble Minister of Agriculture took review of university activities



June 28, 2021. Hon'ble Minister of Agriculture and Ex serviceman, Govt. of Maharashtra Shri. Dadaji Bhuse visited MPKV, Rahuri and reviewed the university activities. Vice Chancellor Dr. P. G. Patil presided over the meeting. Shri. Prajakta Tanpure, Minister of state for Energy, Urban Development, Govt. of Maharashtra, Shri. Vikas Patil, Director of Agriculture, M.S. and Dr. S. R. Gadakh, Director of Research and Extension Education were present on the dais. Shri. Bhuse in his

address to the scientists said that a large proportion of people are dependent on agriculture for their livelihood. The agriculture sector also provides employment to large number of people. Hence, there is a need to reduce the drudgery in agriculture. He expressed satisfaction over the university's contribution in various fields. Vice Chancellor Dr. Patil briefed about the significant activities of the university. Dr. Gadakh presented the education, research and extension report. Vice Chancellor Dr. P. G. Patil handed Shri. Bhuse a cheque amounting to Rs. 65 lakhs which is university employee's contribution for Chief Minister fund (COVID crisis). Dr. P. B. Kharde anchored the meeting. Dr. M. S. Mane, Registrar extended thanks.

13. International Yoga Day celebrated



June 21, 2021. The International Yoga Day was celebrated in hybrid mode in the university in presence of Vice Chancellor Dr. P. G. Patil. This limited programme amidst COVID-19 situation was organized jointly by NSS, Dr. Annasaheb Shinde Agril. Engg. and Technology college and Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon. Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. M. S. Mane, Registrar, Associate Deans Dr. D. D. Pawar and Dr. S. A. Ranpise, Shri. V. E. Kote, Comptroller, Dr. M. R. Chauhan, Student Welfare Officer, Prof. Pushpashil Shelke, Prof. Dilip Gaikwad and Dr. P. B. Kharde, Officer Incharge, Communication Centre participated in the yoga sitting at a safe distance. Vice Chancellor Dr.

Patil expressed the need to practice yoga regularly for keeping ourselves healthy. Yoga Teachers Mr. Suresh Shedde and Dr. Devendra Wanjare guided the participants. The staff, students were present online for this programme.

14. Webinar organized on Developing Entrepreneurship and Employability of students



June 23, 2021. A webinar on Developing Entrepreneurship and Employability of students was jointly organized by CAAST-CSAWM and Alumni Association, Dr. ASCAET, MPKV, Rahuri. The webinar series was inaugurated in the presence of Dr. R. C. Agrawal, National Director, ICAR-NAHEP and DDG (Agril. Edn.), ICAR, New Delhi and Vice Chancellor Dr. P. G. Patil. Dr. Agrawal in his chief guest address informed about the various schemes being undertaken for starting Digital Agriculture University for imparting modern education to the students. He expected that the Agricultural Universities should make efforts for signing agreements with the Farmers Producer Organizations (FPOs) to provide employment opportunities to the students through internships. He also informed about the measures being taken to enhance entrepreneurship opportunities and skill developments of students through the Incubation Center. Vice Chancellor Dr. P. G. Patil in his presidential address noted

the need for growth in entrepreneurial development to provide food to India's rapidly growing population. He explained the importance of agro processing as well as agro mechanization industry. Dr. S. D. Gorantwar, Convener welcomed and introduced the chief guests of inaugural function of webinar series. Dr. M. G. Shinde, Co-convener gave the preamble of the CAAST-CSAWM project along with the background of the webinar series. Dr. H. G. More, President, Alumini Association gave the vote of thanks. Er. Bharat Gholap, Co-organizing secretary gave introduction of webinar speakers. Dr. S. M. Nalawade, Organizing Secretary proposed vote of thanks. This webinar was organized and smoothly conducted by research associates Dr. Girishkumar Bhanage and Er. Yogesh Dighe.

15. Online training programme organized for Indigenous cattle rearers



June 2 to 5, 2021. A three day training programme was organized by the Indigenous Cattle Research and Training Centre, College of Agriculture, Pune for the indigenous cattle rearers in online mode. Dr. S. R. Gadakh, Director of Research and Extension Education presided over the programme. Dr. S. D. Masalkar, Associate Dean, College of Agriculture, Pune, Dr. D. K. Kamble, Head, Department of ASDS, Prof. Dr. S. T. Pachpute, Dr. S. D. Mandakmale, Dr. Somnath Mane and Dr. Ramdas Shende were present on this occasion.

Farmers were guided on feeding management, nutritional aspects, green fodder, care and maintenance of indigenous breed and disease management. Dr. Dheeraj Kankhare anchored the programme, while, Dr. Sunil Adangale expressed thanks.

July 2021

16. Vanmahotsav-2021 organized



July 1 to 7, 2021. The tree plantation programme Vanmahotsav-2021 was organized by the university during the first week of July. Tree saplings were planted at the auspicious hands of Shri. Hasan Mushrif, Hon'ble Minister of Rural Development and Guardian Minister, Ahmednagar. Padmashree Shri. Popatrao Pawar, Executive Director, Aadarsh Gaon Yojana, Vice Chancellor Dr. P. G. Patil, Dr. Rajendra Bhosale, District Collector, Ahmednagar, Shri. Manoj Patil, District Supd. Police, Ahmednagar, Mrs. Suvarna Mane, Deputy Conservator of Forests, Dr. A. L. Pharande, Dean, F/A, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. M. S. Mane, Registrar, Shri. V. E. Kote, Comptroller, Shri. M. P. Dhoke, University Engineer were present on this occasion. University staff planted tree saplings at various sites in the campus. In all seventy five thousand saplings were planted in the university jurisdiction.

17. Kharif crop training programme organized for member farmers of Farmers-Scientists forum

July 9, 2021. A one day kharif crop training programme was organized by the university for member farmers of Farmers-Scientists Forum (FSF) in online



mode due to COVID-19 pandemic. Vice Chancellor Dr. P. G. Patil presided over the programme. Dr. S. R. Gadakh, Director of Research and Extension Education, Associate Deans, Associate Directors of Research, FSF coordinators and member farmers were present online for this programme. Vice Chancellor Dr. Patil in his address said that the Farmers-Scientists Forum is a good idea which is serving as a platform for technology transfer. The coordinators and members should actively conduct the activities for the benefit of farmers, he hoped. Dr. Gadakh introduced the objectives of FSF. University scientists Dr. R. S. Wagh, Dr. M. P. Deshmukh, Dr. N. S. Kute, and Dr. V. R. Joshi guided on cotton production technology, soybean production technology, red gram production technology and kharif onion production technology, respectively. Dr. P. B. Kharde, Manager, ATIC welcomed all for this programme.

18. Vice Chancellor Dr. P. G. Patil visited Hiware Bazar



July 5, 2021. Vice Chancellor Dr. P. G. Patil visited

Hiware Bazar. Padmashree Shri. Popatrao Pawar, Executive Director, Aadarsh Gaon Yojana and Sarpanch, Hiware Bazar greeted and felicitated him on his arrival. The Aadarsh Gaon Yojana has sanctioned Rs.1.14 crore funds to the university for watershed development works. Vice Chancellor thanked Shri. Pawar for his guidance and support to MPKV for watershed development activities. He visited various sites of watershed in Hiware Bazar and appreciated the work. Tree sapling was planted at the hands of Vice Chancellor Dr. P. G. Patil during this visit.

19. Krishi Din celebrated



July 1, 2021. Krishi Din was celebrated in the university in memory of former Chief Minister of Maharashtra and an important architect of green revolution Late Vasant Rao Naik. Vice Chancellor Dr. P. G. Patil offered garland to the portrait of Late Vasant Rao Naik. Shri. Vishwajit Mane, Director General, MCAER, Pune, Shri. Vinod Kumar, Divisional Manager, SBI, Dr. A. L. Pharande, Dean, F/A, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. M. S. Mane, Registrar, Dr. P. N. Rasal, Associate Dean, PGI, Shri. V. E. Kote, Comptroller were present on this occasion. Vice Chancellor in his tribute to Late Vasant Rao Naik said that Late Shri Naik was the pioneer of green revolution in Maharashtra. He motivated the farmers for use of crossbred cows which resulted in white revolution. Tree

saplings were planted at the hands of the dignitaries.

August 2021

20. Webinar organized on Food Processing Industry



August 3, 2021. A webinar on food processing industry was jointly organized by the Centre of Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM) project and Alumni Association, Dr. ASCAET, MPKV, Rahuri to develop entrepreneurship and employability in agricultural students. Vice Chancellor Dr. P.G. Patil presided over the function. Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T, Dr. H. G. More, President of Alumni Association, Dr. N. J. Thakur. Dr. BSKKV, Dapoli, Convener and Principal Investigator of CAAST project Dr. S. D. Gorantiwar were present for this programme. He welcomed the experts and all dignitaries. Co-convenor Dr. M. G. Shinde explained the background of the webinar. Key mentors and experts for the webinars included members of the Alumni Association as well as successful entrepreneurs. Former Director of Central Institute of Postharvest Engineering and Technology, Ludhiana, Dr. R.T. Patil, Principal Scientist, CSIR-CFTRI Research Mysore Dr. Rajeshwar Mache, Managing Director of Sahyadri Farms, Er. Vilas Shinde and the founder of Nihira Food Engineering in Pune, Er. Santosh Karle gave guidance on various topics. More than 398 students, alumni, teachers and scientists participated in this webinar.

21. Hon. Minister of State for Agriculture Dr. Vishwajit Kadam interacted with scientists



August 28, 2021. University scientists interphase was organized in MPKV, Rahuri. Minister of State for Agriculture Hon. Dr. Vishwajit Kadam was Chief Guest for this programme. Vice Chancellor Dr. P.G. Patil presided over this programme. On this occasion, Minister of State for Horticulture Hon. Mrs. Aditi Tatkare, Minister of State for Urban Development and Power Hon. Mr. Prajakt Tanpure, MLA Mr. Rohit Pawar, MLA Mr. Lahu Kanade, Executive Council Member MLA Mr. Narendra Darade, Director Research and Extension Education Dr. S. R. Gadakh were present. Dr. Kadam appreciated the work being done by the university in education, research and extension. Dr. Patil presented an overview of the agricultural education, research, extension education, administrative and financial status of the university. Vice Chancellor Dr. P.G. Patil handed over a cheque of Rs 39,88,082 to the Minister of State for Agriculture for the Chief Minister's Fund from one day's salary of university employees for the flood victims. Dr. Gadakh welcomed the dignitaries gave the introductory remarks. Registrar Shri. Pramod Lahale expressed thanks. Dr. B. A. Deshmukh anchored the programme. The meeting was attended by Officers, Associate Deans, Heads of Departments and scientists of the university.

22. 75th Independence Day celebrated

August 15, 2021. The nation's 75th Independence Day was enthusiastically celebrated in the university.



On this occasion Vice Chancellor Dr. P.G. Patil hoisted the national flag. Vice-Chancellor Dr.P.G.Patil in his address highlighted the important work done by the university in education, research, extension education, administration and development works. Dean Dr. A. S. Pharande, Director of Research and Extension Education. Dr. S. R. Gadakh, Registrar Shri. Pramod Lahale, Comptroller Mr. Vijay Kote, University Engineer Shri. Milind Dhoke, Associate Deans Dr. P. N. Rasal, Dr. D. D. Pawar, Dr. S. A. Ranpise, Dr. M. C. Ahire, Dr. M. S. Mane, OSD to Hon. VC, Chief Scientist Seed Dr. A. V. Solanke, Heads of all Departments, Security Officer Prof. Sunil Phulsavange were present. At this time security officer Prof. Sunil Phulsavange conducted the parade. Assistant Security Officer Shri. Goraksh Shete anchored the programme. On this occasion, Vice Chancellor Dr. P. G. Patil inaugurated the volleyball ground in the girls' hostel, butterfly garden in the boys' hostel, production unit of ashwagandha, amla, behda, shatavari and mint cookies at the bakery unit and new building of the CAAST-CSAWM project. All the officers and staff of the university were present in large numbers for these programs. The programme was organized by taking precautions in the backdrop of Corona.

23. Inauguration of Automated Weather Station

August 30, 2021. Vice Chancellor Dr. P. G. Patil inaugurated the Automatic Weather Station estab-



lished at Baburdi Ghumt village installed by MPKV CAAST- CSAWM project, Alumni Association, Dr. ASCAET, MPKV, Rahuri and Seva Swayam Sevi organization, Ahmednagar. Dr. R. C. Agrawal, National Director, ICAR-NAHEP and DDG (Agril. Edn.), ICAR, New Delhi, Dr. Prabhat Kumar, National Coordinator, NAHEP, New Delhi, Dr. D. D. Pawar, Associate Dean, Dr. ASCA&T, Rahuri were present in virtual mode for this programme. On this occasion Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. M. C. Ahire, Associate Dean, PAHCOA, Halgaon, Dr. S. D. Gorantiwar, Head, Department of Agril Engg. and Principal Investigator, CAAST-CSAWM, Dr. B.D. Bhakare Head, Department of Soil Science and Agril. Chemistry, Mr. Vijay Kote, Comptroller, Dr. Harshal Bhaskere, General Manager of MEDA, Dr. M.G. Shinde, Co-PI and Mrs. Nilima Bankar, Gramsevika were present on this occasion.

24. Three week online certificate course completed

August 22, 2021. The CAAST-CSAWM project of MPKV, Rahuri had organized a three-week online certificate course on Weather Based Agromet Advisory Services through ICTIN coordination with ProSoil Project, GIZ, New Delhi. Vice Chancellor Dr. P.G. Patil presided over the programme. Dr. Vinod Kumar Singh, Director of Central Research Institute for Dry Land Agriculture (CRIDA), Hyderabad was present as a chief guest. On this occasion, Dr. A. S. Pharande, Dean,





F/A, Dr. S. R. Gadakh, Director of Research, Shri. Rajeev Ahal, Manager of ProSoil Project, GIZ, New Delhi were present. Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM, Dr. Indranil Ghosh, Senior Advisor, GIZ, New Delhi, Co-PI Dr. M. G. Shinde, Enr. Dr. Ranjit Jadhav, Director, GIZ, Pune, Co-Director, Dr. Ravi Andhale, Dr. J. D. Jadhav, Head of Metrology Department were present. A total of 107 trainees from all over the country participated for this certificate course and they got valuable guidance from 35 expert scientists from all over the country in the field of Agrometeorology.

September-2021

25. Zonal Agricultural Research and Extension Advisory Committee for Rabi season concluded



September 9, 2021. The Zonal Agricultural Research and Extension Advisory Committee meeting for Rabi and Summer 2021-22 was organized in online mode in collaboration with Department of Agriculture.

Vice Chancellor Dr. P.G. Patil presided over this programme. On this occasion, Shri. Dheeraj Kumar, Agriculture Commissioner, M.S. was present as the chief guest. Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. P. N. Rasal, Dean (F/A), Shri. Dilip Zende, Director Input and Quality Control, Registrar Shri. Pramod Lahale, Dr. Vitthal Shirke, Director Extension Education, MCAER, Pune, Shri. Phundkar of Mahabeej, Akola and Mr. R.C. Joshi of Mahabeej were present. While guiding on this occasion, Vice Chancellor Dr. Patil said that all of us are taking efforts to increase the income of the farmers and to achieve it, the Agriculture University, Department of Agriculture and Mahabeej need to work together. Commissioner of Agriculture Shri. Dheeraj Kumar guided the officers. Dr. Gadakh presented the new crop varieties and recommendations released by the university. Director of Agriculture Mr. Vikas Patil expressed his views. Associate Director of Research Dr. R. S. Wagh gave the introductory remarks. In the technical session, university scientists Dr. N. S. Kute, Dr. S. S. Dodke, Dr. M. N. Bhalekar, Dr. M. P. Deshmukh and Dr. V. N. Barai guided the officers. On this occasion, Divisional Agriculture Joint Director Shri. Basavaraj Birajdar (Pune), Shri. Umesh Patil (Kolhapur), Mr. Sanjeev Padwal (Nashik) were present. Dr. S. S. Sadaphal anchored the programme and Dr. P. B. Kharde proposed vote of thanks. On this occasion, Associate Deans, Heads of Department, Associate Directors of Research, Crop Specialists, scientists of KVKs, Regional and District Extension Centres and officers of Department of Agriculture were present online.

26. Visit of dignitaries to ICAR Farmer FIRST Project

September 16, 2021. A visit to kharif crop demonstrations and interaction with farmers was organized by ICAR Farmer FIRST project in association with Department of Agriculture. Vice Chancellor Dr. P.G. Patil



and Director, ICAR-ATARI, Pune Dr. Lakhan Singh participated in this visit programme. On this occasion Dr. P. B. Kharde, PI, ICAR Farmer FIRST project, Shri Mahendra Thokle, TAO, Rahuri, Shri. Nitin Gagare, Sarpanch, Tambhere, Dr. S. S. Sadaphal, Co-PI, ICAR Farmer FIRST project were present. While guiding the farmers Vice Chancellor Dr. Patil said that the integrated farming system model developed by the University not only provides sustainable production and income to the farmers but also provides them with a healthy diet. Director Dr. Lakhan Singh guided the farmers. Dr. Kharde gave the introductory remarks and welcomed the dignitaries. On this occasion rabi sorghum seed was distributed to the farmers. The dignitaries visited various kharif crop demonstrations conducted under the ICAR FFP. University scientists Dr. S. M. Mandkamble, Dr. U. S. Surve, Dr. A. G. Durgude, Mandal Agriculture Officer Shri. Jayant Jadhav, progressive farmers were present. Farmers from Tambhere, Chinchvihire, Kanadgaon and Kangar attended the programme.

27. Visits to pomegranate orchards under HORTSAP project

September 23, 2021. The MPKV scientists Dr. S. V. Kolase, Associate Professor, Department of Plant Pathology, Dr. Nandlal Deshmukh, Research Associate, Officers of the Department of Agriculture of Ahmednagar district visited the pomegranate orchards of Rahuri and Shirimpur talukas where pests and



diseases are above the economic loss level under the Horticulture Pest Surveillance and Advisory Project (HORTSAP) of Gov. of Maharashtra,. During this visit scientists advised the farmers to remove diseased fruits, branches and keep gardens free from weeds. This campaign was organized under the guidance of Dr. T. K. Narute, Head, Department of Plant Pathology.

28. Vice Chancellor Dr. P.G. Patil visited Ralegansiddhi



September 23, 2021. Vice Chancellor Dr. P. G. Patil visited Ralegansiddhi. On this occasion, he had a goodwill meeting with senior social worker Padma Bhushan Shri. Annasaheb Hajare. Vice Chancellor Dr. Patil felicitated Shri. Hajare with a bouquet, shawl and Krishi Darshani on behalf of the university. Padmashri Shri. Popatrao Pawar, President of Adarsh Gaon Yojana was present on this occasion. Vice Chancellor Dr.

Patil briefed Shri. Hajare about the various activities of the university implemented in the last six months. Shri. Hajare appreciated Vice Chancellor for his innovative initiative of Krishi Parayan and wished him for future progress and said that these new initiatives will help the agriculture sector to gain new heights. Vice Chancellor's OSD Dr. Mahanand Mane was present during the visit.

29. Vice Chancellor Dr. P. G. Patil on farmer's field



September 24, 2021. Vice Chancellor Dr. P.G. Patil visited the experimental farm of Udyan Pandit Mr. Pramod Rasal from Nighoj, Tal. Parner, Dist. Ahmednagar. He discussed about the innovative scientific modern farming methods adopted by him. On this occasion, he was accompanied by OSD Dr. Mahanand Mane. The Vice Chancellor took information about Mr. Rasal's laboratory and the production of trichoderma in it. He informed that Mr. Rasal is being appointed on the Board of Studies of the Irrigation and Drainage Engineering Department of the University. The Vice Chancellor expressed the hope that Mr. Rasal's innovative farming experiments will inspire the farmers.

30. Hon'ble Prime Minister dedicated two varieties of MPKV to the nation

September 28, 2021. In a programme organized at New Delhi Hon'ble Prime Minister Shri. Narendra Modi dedicated 35 research varieties released across the country to the nation for Environmental Adaptation for



Agricultural Development. This programme was organized in the university at ATIC and at various Agriculture Colleges, KVKs, Research Centers in ten districts of university jurisdiction. Vice Chancellor Dr. P.G. Patil was present in the programme held at New Delhi, while, Director of Research and Extension Education Dr. S. R. Gadakh was present for the programme held at the KVK, Dhule. Dean, Faculty of Agriculture Dr. P. N. Rasal was present in the programme held at central campus, Rahuri. The 35 crop varieties launched by the Hon'ble Prime Minister include stress tolerant, high yielding and nutrient rich varieties. Pride for university is that the university released varieties of sorghum SSH-47 and Wingedbean variety Phule Chardhari wal is included in this nationally dedicated varieties.

October-2021

31. 35th University Convocation celebrated



October 28, 2021. MPKV, Rahuri celebrated its 35th Convocation. Honourable Governor of Maharashtra and Chancellor of the university Shri. Bhagat Singh Koshyari presided over the function. On this occasion

Mr. Dadaji Bhuse, Minister of Agriculture and Ex-Servicemen Welfare, M.S. and Pro-Chancellor of MPKV, Rahuri was the guest of honor. Dr. Narendra Singh Rathore, Vice Chancellor, Maharana Pratap University of Agriculture and Technology, Udaipur delivered the convocation address. On this occasion former Union Minister of Agriculture, Gov. of India, New Delhi and Member of Rajya Sabha Hon. Mr. Sharad Pawar and Union Minister for Roads, Communication and Transport, Gov. of India Mr. Nitin Gadkari, Vice Chancellor Dr. P. G. Patil, Dean (F/A) Dr. P. N. Rasal, Registrar Shri. Pramod Lahale and Associate Dean, DrASCAET Dr. D. D. Pawar were present on the dais.

While guiding, Hon. Governor Shri. Bhagat Singh Koshyari said that the graduate students should take efforts to do innovative research. This research can generate entrepreneurship and lead to employment opportunities. For this, students should keep a good resolution in front of them which will help for betterment of farmers and the country. Agriculture Minister Mr. Dadaji Bhuse said in his speech that students should choose any field in future but be honest with the agricultural sector in which you have taken education and give your highest contribution to make the farmers prosperous. Chief guest Dr. Narendra Singh Rathore in his convocation address said that agricultural education is important for all. Students should become entrepreneurs and create employment opportunities after graduation. Vice Chancellor Dr. P.G. Patil presented the report on significant achievements of the university in the field of education, research and extension education. Hon'ble Governor Mr. Bhagat Singh Koshyari honoured Former Union Minister of Agriculture Shri. Sharad Pawar and Union Minister of Roads, Communication and Transport Shri. Nitin Gadkari with the honorary degrees of Doctor of Science for their remarkable work in the field of agriculture. Degrees to 104 Ph. D. holders, 628 Post

Graduate holders and 10,736 Graduates and medals to successful students were conferred to the graduates. Many VIPs, former Vice Chancellors, EC members, officers, staff and students were present either in offline or online mode.

32. Hon. Governor interacted with farmers



October 27, 2021. Hon. Governor and Chancellor, MPKV, Rahuri Shri. Bhagat Singh Koshyari visited and inspected various projects of the university. Vice Chancellor Dr. P. G. Patil, Director of Research and Extension Education Dr. S. R. Gadakh, Dean (F/A) Dr. P. N. Rasal, Registrar Shri. Pramod Lahale, Comptroller Shri. Sukhdev Balme, University Engineer Shri. Milind Dhoke were present during the visit. On this occasion, the Governor visited the Agricultural Technology Information Center of the University, Demonstration of Embryo Transfer Technology in Cows, Demonstration field of Fruit Crops in Horticulture, Medicinal and Aromatic Plant Project, Horticulture Nursery, Irrigation Park of IWM, CAAST-CSAWM project. After this he interacted with the farmers who came from Ahmednagar, Sangli and Nashik districts. The farmers who interacted with the Hon. Governor were Krishi Bhushan Dr. Dattatraya Wane, Krishi Bhushan Mr. Sursingh Pawar, Krishi Bhushan Shri. Machindra Gholap, Krishi Bhushan Shri. Vishnu Jare, Krishi Ratna Shri. Sanjeev Mane, Major Shri. Tarachand Gagare, Shri. Rajendra Varghude, Shri. Pravin Gade, Shri. Maruti Gite, Shri. Pranav Dhonde, Mrs. Savita Nalkar, Shri. Shivaji Thor-

at, Shri. Srinivas Bagal, Shri. Ramdas Thete, Shri. Rahul Rasal, Shri. Sarangdhar Nirmal, Shri. Ravindra Kadalag and Shri. Ashok Khot.

33. Union Minister Mr. Nitin Gadkari's visit to the CAAST-CSAWM project



October 28, 2021. Union Minister for Roads, Communication and Transport, Gov. of India Mr. Nitin Gadkari visited the World Bank funded ICAR-NAHEP CAAST-CSAWM project of the University and inspected various laboratories of this project. On this occasion M.P. Dr. Sujay Vikhe Patil, Vice Chancellor Dr. P. G. Patil, Director of Research and Extension Education Dr. S. R. Gadakh were present. Mr. Gadkari said that currently drones are being used for spraying on crops in India. If the farmers want to make the use of drones more cost-effective for various agricultural tasks, then the cost of the drones needs to be reduced to 1.5 lakhs. Principal Investigator CAAST-CSAWM Dr. S. D. Gorantiwar, Co PI Dr. M. G. Shinde and Dr. Sunil Kadam gave information about the demonstration of drones and various digital technologies that have been developed and useful for agriculture. Mr. Gadkari visited the drones and robotics laboratory, spraying drone demonstration, IOT based soil sensor under the CAAST project.

34. DDG (Education) Dr. R.C. Agarwal's visit to CAAST-CSAWM project

October 17, 2021. Dr. R.C. Agarwal, DDG (Education), ICAR, New Delhi visited the World Bank funded ICAR-NAHEP CAAST-CSAWM project of the University. On this occasion the National Coordinator



of the NAHEP Dr. Prabhat Kumar was present as the chief guest. Vice Chancellor Dr. P. G. Patil, Director of Research and Extension Education Dr. S. R. Gadakh, Dean (F/A) Dr. P. N. Rasal, Associate Dean Dr. M. C. Ahire, OSD to Hon.VC Dr. M. S. Mane, Comptroller Shri. Sukhdev Balme, University Engineer Shri. Milind Dhoke were present. Dr. Agarwal and Dr. Prabhat Kumar guided the staff and students. Vice Chancellor Dr. Patil in his presidential address said that projects like CAAST will help to fulfill the dreams of a self-reliant India as stated by the Prime Minister. Special efforts will have to be made to take the technologies to the farmers through mobile apps, Phule Scheduler. Overview of CAAST-CSAWM project was presented by PI Dr. S. D. Gorantiwar. Co-PI Dr. M. G. Shinde anchored the programme, while, Dr. Ahire proposed vote of thanks. All the Heads of Department, CAAST-CSAWM project members and research associates were present on this occasion.

35. Chief Executive Officer of Paani Foundation visited the University

October 5, 2021. The Chief Executive Officer of Paani Foundation Shri. Satyajit Bhatkal visited MPKV, Rahuri. Director of Research and Extension Education Dr. S. R. Gadakh welcomed him on behalf of the university. Mr. Bhatkal visited various projects of the university. Dr. M. S. Mane,



Head, Inter Faculty Department of IWM gave information about modern irrigation methods for water management of crops. Dr. A. V. Solanke, Head, Department of Agronomy, Dr. U.S. Surve, Incharge, Organic Farming project, Dr. B. T. Sinare, Incharge, Bamboo project, Dr. D. P. Pacharne, Manager, Agricultural Technology Information Center, Dr. D. D. Dudhade, Senior Scientist, Sorghum Improvement Project, Dr. V. M. Jambhale, Incharge, Medicinal and Aromatic Plant Project, Dr. Mahendra Mote, Assistant Professor of ASDS, Dr. Sachin Magar, Incharge, Horticulture Nursery gave information of their respective projects. After this visit Shri. Bhatkal expressed satisfaction with the work and research being done for farmers under the skillful leadership of University Vice Chancellor Dr. P.G. Patil. Dr. P. B. Kharde, Officer Incharge, Communication Centre and Dr. G. K. Waman, Public Relations Officer were present during the visit.

36. Launchig of Embryo Transplant Technology of Indigenous Cows at MPKV, Rahuri

October 29, 2021. Geer Desi Cow Embryo Transplant Technology of Desi Cow Research and Training Center, College of Agriculture, Pune was started at Cow Research and Development Project of MPKV, Rahuri in the presence of Director of Research and Extension Education



Dr. S. R. Gadakh. This technology is important for the conservation of indigenous cows and the said embryo transplant technology is being used in coordination with Rahuri Semen Station. On this occasion Dr. Gadakh guided the staff. General Manager of Rahuri Semen Station Dr. Shivkumar Patil, Dr. Janardhan Katkde, Dr. Devendra Swamy, HOD, ASDS, Dr. D. K. Kamble, Dr. V. E. Narvade and Dr. S. D. Adangale were present.

37. Training programme organized at Krishi Vigyan Kendra, Dhule



October 15, 2021. A three-day training programme on Animal Husbandry and Dairy entrepreneurship was organized at KVK, Dhule. During the inaugural function of training Dr. C. D. Deokar, Associate Dean, College of Agriculture, Dhule, Dr. Satappa Kharbade, Associate Dean, College of Agriculture, Nandurbar, Dr. Rahul Desale, Principal, ATS, Dhule, Dr. Dinesh Nandre, PC, KVK, Dhule, Dr. Dhanraj

Chaudhary, SMS, Dairy were present. Dr. Nandre gave the introductory remarks. Dr. Deokar gave presidential address. Dr. Kharbade and Dr. Desale guided the trainees. The technical session was guided by Mr. Vipul Vasave, Dr. Vishnu Narwade, Mr. Shantaram Malpure and Mr. Narendra Patil. Rural youths and farmers from Borkund, Shirpur, Dhule participated in the training. Dr. Chaudhary anchored the programme and Mr. Rohit Kadu and Dr. Atish Patil proposed vote of thanks.

38. Training programme organized under the Farmers FIRST Project



October 14, 2021. A training programme on Rabi sorghum and gram production technology was organized at Kanadgaon village in Rahuri taluka under the ICAR Farmers FIRST Project in collaboration with the Department of Agriculture. The PI of the project Dr. P. B. Kharde, Chief Scientist of Pulses Improvement Project Dr. N. S. Kute, Research Associate of Sorghum Improvement Project Dr. Suraj Gadakh, Mandal Agriculture Officer Shri. Jayant Jadhav, Deputy Sarpanch of Kanadgaon Mr. Madhukar Gagare, CO-PI of the project Dr. B. A. Deshmukh, Dr. S. S. Sadaphal, Major Shri. Tarachand Gagare were present. Dr. Kharde welcomed and gave introductory remarks. Dr. Kute and Dr. Gadakh guided the farmers. On this occasion, seeds and other inputs were distributed to the farmers. Farmers from Kandgaon, Tambhere, Chinchivihire and Kangar villages attended the programme. Sci-

entists visited the soybean and tur demonstration plots.

39. Pune college student selected for post graduate studies in Netherlands

October 1, 2021. Student of College of Agriculture, Pune Miss. Anchu Regi had taken the entrance exam for post-graduate studies at the University of Wageningen, Netherlands during the final year of her agriculture degree. She passed it and she has been selected for postgraduate course. The said student is from Idukki district of Kerala state. She was guided by Dr. S. D. Malsalkar, Associate Dean, College of Agriculture, Pune, Dr. P. V. Patil, Student Welfare Officer and Farm Manager Dr. Dattatraya Sonawane.

November-2021

40. Pomegranate Crop Seminar programme concluded



November 14, 2021. A State level Pomegranate Crop Seminar was organized at the farm of Shri. Ravindra Pawar, pomegranate farmer in Satmane village of Nasik district in coordination with MPKV, Rahuri, Department of Agriculture, ATMA and Pomegranate Grower Association. Minister of Agriculture Mr. Dadaji Bhuse, Director of Research and Extension Education Dr. S. R. Gadakh, Chairman of Market Committee Shri. Rajendra Jadhav, Shri. Prabhakar Chandane, President, Pomegranate Grower Association, District Superintendent Agriculture Officer Shri. Vivek Sonwane, Shri. Rajendra Nikam, Shri. Dilip Deore, Project Director,

ATMA, Shri. Balasaheb Vyavahre, Taluka Agriculture Officer, Scientist Dr. Sachin Hire, Shri. Sudhakar Pawar Taluka Agriculture Officer (Satana), Shri. Jagdish Patil (Nandgaon), officers and employees of the Agriculture Department along with pomegranate farmers from all over the state were present in large number. Agriculture Minister Shri. Dadaji Bhuse said that various research of the university have brought about revolutionary changes in the production of farmers. Therefore, the guidance of the experts in the seminar will definitely be a guideline for the pomegranate farmers in the state. At this time, the scientist of the university Dr. Vinay Supe and Dalimb Ratna Shri. Babasaheb Gore guided the farmers.

41. Minister of Agriculture Shri. Dadaji Bhuse's visit to PRTD, Lakhmapur



November 12, 2021. Agriculture and Ex-Serviceman Welfare Minister Shri. Dadaji Bhuse visited the Pomegranate research and technology centre at Lakhmapur. Shri. Bhuse inspected the center. He reviewed the facilities in the center as well as the research nursery and also expressed the need to increase the research on pomegranate for the guidance and convenience of the farmers. It was suggested to focus on disease pest management in pomegranate as well as management of oily disease and wilt disease. Sub Divisional Agriculture Officer Shri. Dilip Deore, Associate Dean, College of Agribusiness Management Dr. Vishwanath Shinde, Officer In-Charge of Pomegranate Research

and Technology Dissemination Centre Dr. Sachin Hire, Entomologist Dr. S. D. Patil were present.

42. Er. Vilas Shinde and Shri. Sahebrao Chikane are the MPKV IDOLS for November



November 1, 2021. Vice Chancellor Dr. P. G. Patil has seeded new concept of MPKV IDOL by honouring progressive farmers from MPKV jurisdiction adopting new technologies in agriculture and MPKV graduates who have successfully established their enterprises by projecting their work socially. In this regard, progressive farmers and agricultural entrepreneurs will be honoured at the university level. In this, a board with information about their work will be placed at the entrance of the university, entrance of the ATIC and the student hostel. These boards will also be displayed every month at the entrance of all the agricultural colleges, agricultural research centers, agricultural technology schools, KVKs, RECs, DEC's under the jurisdiction of the University. This activity will introduce the work of progressive farmers and alumni entrepreneurs to the farmers, government officials and students coming to visit the university. Also, young farmers and graduates will get inspiration by taking the example of these success stories. This concept implemented by the Vice Chancellor is being welcomed by all the farmers and they have expressed their satisfaction. Er. Vilas Shinde, CEO and



Managing Director, Sahayadri Farmers Producer Company, Nasik is the successful MPKV graduate (Dr AS-CAE & T) entrepreneur. It is India's largest fruits and vegetables Farmers Producer Company having more than 15000 farmer members and exporting fruits and processed products in 42 countries. Progressive farmer Shri. Sahebrao Chikane, At. Po. Songaon, Tal. Jawali, Dist. Satara has successfully adopted the university technologies on his farm. He got a record yield of 101 q/ha. of MPKV released rabi sorghum variety Phule Revati. He was felicitated at the auspicious hands of Hon. Shri. Uddhav Thackrey, Former Chief Minister of Maharashtra for this feat.

43. Success of Mahatma Phule Krishi Vidyapeeth in National Eligibility Test exam

November 1, 2021.

138 Students from different disciplines of MPKV, Rahuri has succeeded in the National Eligibility Test (NET) exam conducted by Agriculture Scientist Recruitment Board (ASRB), New

Delhi in August 2021. National Eligibility Test is mandatory for Assistant Professors and equivalent posts in Agricultural Universities and Agricultural Colleges in various states. Out of 138 students 123 students have cleared NET exam in which 80 students are Ph. D. and 43 students are of M. Sc., whereas, 15 students have passed in written exam of ARS in which 04 students are of Agril. Engineering, 01 in Soil Science and Agricultural Chemistry, 02 in Plant Pathology, 02 in Extension Education, 02 in Agricultural Botany, 01 in Seed Science and Technology, 01 in Plant Physiology and 02 in Agronomy.



44. Girls hostel foundation stone of Dhule college laid at the hands of Vice Chancellor



November 25, 2021. Vice Chancellor Dr. P. G. Patil laid the foundation stone for the proposed girls hostel and hall for the students of the College of Agriculture, Dhule. On this occasion, the Vice Chancellor visited Nursery, Polyhouse, Seed Processing Centre, Department of Animal Husbandry and Dairy Science, Department of Agricultural Entomology, Department of Soil Science and Agricultural Chemistry, Agricultural Technology School, Bajara Research Scheme and KVK field and laboratory. After taking charge of the Vice Chancellor, this was his first visit. Associate Dean of the College Dr. C. D. Deokar welcomed him. Staff of the college was present during his visit.

December-2021

45. Ten varieties, one agricultural implement and 58 agricultural technology recommendations of MPKV, Rahuri approved in Joint AGRESO-2021

December 24-30, 2021. The 49th meeting of the Joint Agricultural Research and Development Committee was organized at Vasant Rao Naik Marathwada Agricultural University, Parbhani by the Maharashtra Council of Agricultural Education and Research (MCAER), Pune in association with all the four agricultural universities of the state. The programme was presided over by Hon. Shri. Dadaji Bhuse, Minister of Agriculture and Ex-Serviceman Welfare, M.S. On this occasion, Shri. Eknath Dawle, Chief Secretary, Agriculture, Dr. P.G. Patil, Vice Chancellor, Mahatma

Phule Krishi Vidypeeth, Rahuri, Dr. V.M. Bhale, Vice Chancellor, Dr. Panjabrao Deshmukh Agricultural University, Akola, Dr. Ashok Dhawan, Vice Chancellor, Vasantnao Naik Marathwada Agricultural University, Parbhani, Dr. S. D. Sawant, Vice Chancellor, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli and Shri. Vishwajit Mane, Director General, MCAER, Pune were present on the dais. MPKV could achieve this under the leadership of Dr. P.G. Patil, Vice Chancellor and Dr. S. R. Gadakh, Director of Research. In this meeting 10 varieties, one agricultural implement and 58 crop production technology recommendations of MPKV, Rahuri were approved. For the first time, MPKV has released three recommendations for farmers in digital technology in agriculture. Varieties released in various crops include Sorghum- Phule Yashomati, Wheat-NIAW 3624 (Phule Anupam), Soybean- Phule Durva, Udid-Phule Vasu, Sesamum- Phule Poorna, Sugarcane- Phule 11082, Safflower- SSF15-65, SSF 16-02, Guava- Phule Amrit and Tamarind- Phule Shravani. In implements, the Phule automatic plough and 58 technology recommendations were approved.

46. Dr. Dattatraya Wane and Mrs. Swati Shingade are the MPKV IDOLS for the month of December



December 1, 2021. Krishibhushan Dr. Dattatraya Sahadev Wane, At.Po.Manori, Tal. Rahuri, Dist. Ahmednagar and Mrs. Swati Shingade, At. Sonakwa-

di, Po. Pandare, Tal. Baramati, are the MPKV IDOLS for December as a progressive farmer and successful agricultural graduate entrepreneur, respectively. Dr. Dattatraya Wane has scientifically cultivated chickpea, wheat, onion, groundnut, soybean crops by adopting advanced irrigation methods. He has established Farmers Club and Deepstambh Agro Farmers Producer Company at Manori. Mrs. Shingade who obtained her Masters degree in Biochemistry from MPKV, Rahuri is an agricultural entrepreneur who has successfully adopted hi-tech agriculture. She founded the Abhinav Prapti Farmers Club, Pure Organic Group, Hi-Tech Floriculture Training Center and developed her own brand of organic products.

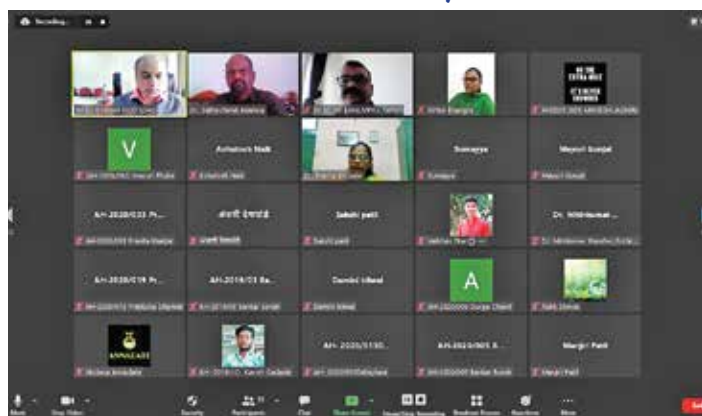
47. Memorandum of Understanding signed



December 14, 2021. Under ProSoil Project, a seminar was organized at Mahabaleshwar to sign the MoU with GIZ to transfer NICESM system to Mahatma Phule Krishi Vidypeeth, Rahuri. Vice Chancellor Dr. P. G. Patil was the chief guest for this programme. It was presided over by Dr. Rajiv Ahal, Director, Natural Resources Management and Agro-Environment and Prosoil Project. Dr. S. R. Gadakh, Director of Research, Dr. P. N. Rasal, Dean, Faculty of Agriculture, MPKV, Rahuri, Dr. Balasubramani, Director, MANAGE, Hyderabad, Dr. G. Bhaskar, Joint Director, Shri. Navin Horo, Senior Consultant, Prosoil Project, Shri. Vivek Rishi, Consultant, Shri. Himanshu Verma, Technical Consul-

tant, Shri. Ranjit Jadhav, Regional Manager, Dr. S. D. Gorantiwar, Principal Investigator, Prosoil Project, Dr. G. K. Waman, Co-investigator and Shri. Vishwambhar Rane, Consultant and Coordinator, ProSoil Project, MANAGE, Hyderabad were present on this occasion.

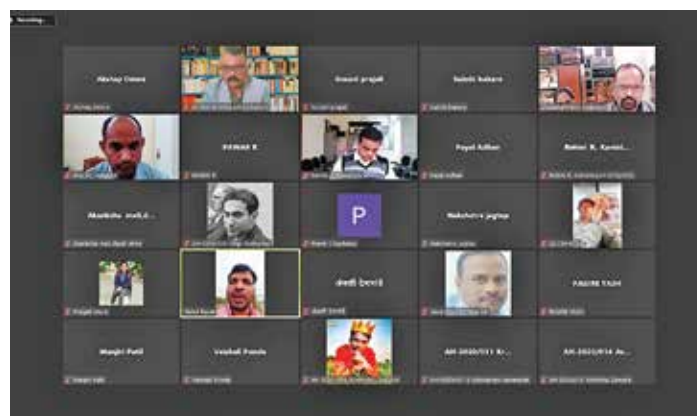
48. Celebration of World Soil Day



December 5, 2021. Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon at Mahatma Phule Agricultural University, Rahuri celebrated World Soil Day on 5th December, 2021. Dr. B. D. Bhakare, Head, Department of Soil Science and Agricultural Chemistry was present as the chief guest for this programme. On this occasion, Dr. P. N. Rasal, Dean, Faculty of Agriculture while guiding the farmers and students said that agricultural graduates should create awareness for maintaining good health of the soil among the farmers in the society. Dr. Bhakare while guiding said that the land becomes saline due to excessive use of water and fertilizers. This threatens soil health and reduces productivity. Organic fertilizers should be used for this purpose. Dr. M. C. Ahire, Associate Dean also guided the students during the programme.

49. Celebration of Agriculture Education Day

December 3, 2021. Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon at Mahatma Phule Agricultural University, Rahuri celebrated Agriculture Education Day on occasion of birth anniversary of Dr. Rajendra Prasad, the first President of independent



India in online mode. Shri. Sachin Suryavanshi, Block Development Officer, Kopargaon Panchayat Samiti, Shri. Jayesh Patil, an agricultural entrepreneur from Dhule, Shri. Rahul Rasal, progressive farmer from Nighoj, Tal. Parner, Dist. Ahmednagar and Shri. Janardan Bontale, Branch Officer of State Bank of India, MPKV, Rahuri were present on this occasion. Dr. Ahire while guiding the students said that with agriculture subject being included in school education in the state, there is a need for agricultural graduates to teach that subject. Job opportunities are available in various sectors. Thus, there are unlimited opportunities available in the agricultural sector. Shri. Suryavanshi, Shri. Patil, Shri. Rasal and Shri. Bontale guided the students during the programme. The students attended the programme in online mode in large number.

50. Farmers exposure visit organized under ICAR Farmer FIRST Project



December 6, 2021. A farmers exposure visit was

organized under the ICAR Farmer FIRST project of the university. Farmers of Chinchvihire, Kangar, Tam-bhere and Kandgaon villages participated in this visit. They visited the farm of Shri. Rahul Rasal, progressive farmer from Nighoj, Tal. Parner, Dist.Ahmednagar. The farmers got information on practices and tools to combat climate change, precision agriculture and innovative methods. They also visited Hivrebazar and Ra-legansiddhi and observed the soil water conservation techniques. Vice Chancellor Dr. P. G. Patil inaugurated and flagged this study tour giving good wishes. He said that farmers should adopt new experiments and innovative technologies on their farms and make progress by using the experience of successful farmers. The said study tour was organized under the guidance of Dr. S. R. Gadakh, Director of Research and Extension Education. It was coordinated by the Principle Investigator of the project Dr. P. B. Kharde and Co-PIs Dr. B. A. Deshmukh and Dr. S. S. Sadaphal. 35 farmers and women from four villages of ICAR Farmer FIRST project participated in the study tour.

January-2022

51. Republic Day celebrated with enthusiasm



January 26, 2022. The Indian Republic Day was celebrated with enthusiasm at MPKV, Rahuri. On this occasion Vice Chancellor Dr. P.G. Patil hoisted the national flag. Dr. Patil guided the staff and students. Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. P. N. Rasal, Dean, Faculty of Agriculture,

Shri. Pramod Lahale, Registrar, Mr. Sukhdev Balme, Comptroller, Associate Deans Dr. D. D. Pawar, Dr. S. A. Ranpise, Dr. M. C. Ahire, Chief Scientist (Seeds) Dr. A. V. Solanke, Security Officer Shri. Goraksh Shete, N.C.C. Officer Dr. Sunil Phulsawange, Heads of various departments, scientists and staff were present on this occasion. The Republic Day was celebrated following all the rules and protocol of COVID-19.

52. Magova-2021 programme organized



January 6, 2022. The Magova-2021 programme was organized in hybrid mode at MPKV, Rahuri. Mr. Radhakrishna Game, Divisional Commissioner of Nashik Division was the chief guest for the function. Vice Chancellor Dr. P.G. Patil presided over the programme. Dr. Rajendra Bhosale, District Collector of Ahmednagar district, Mr. Rajendra Kshirsagar, Chief Executive Officer, Zilla Parishad, Ahmednagar, Padmashri Shri. Popatrao Pawar, Beejmata Padmashri Mrs. Rahibai Popere, Annamata Mrs. Mamtabai Bhangre, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. P. N. Rasal, Dean, Faculty of Agriculture, Dr. D. D. Pawar, Incharge Registrar, Mr. Sukhdev Balme, Comptroller, University Engineer Mr. Milind Dhoke were present for this programme. Mr. Game said that research should be done on how to reduce the cost of agriculture. The health awareness of the people in the city will greatly benefit the organic farmers. The organic as well as natural farming will benefit the farmers.

Vice Chancellor Dr. P. G. Patil, Dr. Rajendra Bhosale, Mr. Popatrao Pawar and Mrs. Rahibai Popere guided the audience. Padmashri Mr. Popatrao Pawar and Padmashri Mrs. Rahibai Popere were felicitated on behalf of the university. Mrs. Mamata Bhangre was also felicitated for her work in organic farming. On this occasion the popular university publications Krishi Darshini-2022 and MPKV Calendar-2022 were released by the dignitaries. Dr. Gadakh gave the introductory remarks. All Directors and Officers presented the activities of the past year. This programme was anchored by Dr. A. V. Solanke and vote of thanks offered by Dr. P. B. Kharde. The event was held in the presence of limited officers and staff following the COVID-19 norms. A large number of officials, scientists, employees, students and farmers from all ten districts of the university were present online for this programme.

53. Shri. Rahul Rasal and Dr. Swapnil Bachhav are the MPKV IDOLS for the month of January



January 1, 2022. Mr. Rahul Rasal, At.Po. Shivwadi, Nighoj, Tal. Parner, Dist. Ahmednagar and Dr. Swapnil Bachhav from Nashik are the MPKV IDOLS for the month of January as a progressive farmer and an agricultural graduate entrepreneur, respectively. Mr. Rasal has emphasized on producing chemical residue free food from his 65 acre farm based on complete mechanization of agriculture, subsurface drip irrigation, auto-

mated weather station and weather data collection center. He is a young innovative farmer adopting precision agriculture and climatesmart technologies. Dr. Bachhav is an agricultural entrepreneur who completed his post graduation from MPKV, Rahuri. He is the Chairman and Managing Director of Richfield Fertilizers Pvt. Ltd. and Aditya Specialty Agro Nutrition LLP. Dr. Bachhav gave the technology of using water soluble fertilizers for the first time in India through these companies. More than 150 agricultural graduates are employed in both these companies.

54. Inauguration of Automated Weather Station



January 20, 2022. The World Bank funded Indian Council of Agricultural Research, National Agricultural Higher Education Project, New Delhi sponsored Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management (CAAST), MPKV, Rahuri has set up an automatic weather station and an automatic pump controller based irrigation system and organized a one-day farmer training on the basis of precision irrigation system at Shetphale, Tal. Atpadi, Dist. Sangli under the guidance of Vice Chancellor Dr. P. G. Patil. For this one-day farmer training, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. P. N. Rasal, Dean, Faculty of Agriculture, Dr. S. D. Gorantiwar, Principal Investigator, CAAST project and Co-PI Dr. M. G. Shinde participated in this programme. Dr. Ashok Pisal, Extension Agronomist, REC, Kolhapur and Dr. Ajay Deshpande guided the farmers in the training by solving the prob-



lems faced by the farmers on precision irrigation management. Er. Dattatraya Pawar used Phule Irrigation Scheduler mobile app for water management, while, Dr. Pradya Jadhav guided and gave demonstrations on Automatic Pump Controller Based Irrigation System.

55. Celebration of birth anniversary of Krantijyoti Savitribai Phule



January 4, 2022. The birth anniversary of Krantijyoti Savitribai Phule was celebrated at Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon, MPKV, Rahuri. The programme was presided over by Dr. M. C. Ahire, Associate Dean. Dr. Ahire guided the students and staff. On this occasion, teachers and non-teaching staff of the college saluted Savitribai Phule. On this occasion, the student welfare officer of the college Dr. S. A. Anarse expressed his thoughts about Savitribai Phule. The staff and students were present for this programme.

February-2022

56. Mr. Rashid Gavit and Shri. Sunil Ghatule are the MPKV IDOLS for the month of February

February 1, 2022. Mr. Rashid Gavit, At.Po. Ghanrat, Tal. Nawapur, Dist. Nandurbar and Mr. Sunil Ghatule, At.Po. Mohol, Dist. Solapur are the MPKV Idols for the month of February as a progreeive farmer and as an agricultural graduate entrepreneur, respectively. Mr. Rashid Gavit has developed a small razor for line sowing of paddy, onion crops on raised bed. The technique of sowing seeds by dragging crop lines was developed and the farmers of the area were en-



couraged to use it. Mr. Gavit through Krishak Mandal has registered Nawapur Desi Tur as a Geographical Indication (GI) based on scientific analysis. Mr. Sunil Ghatule is an agricultural entrepreneur graduated from College of Agriculture, Kolhapur has established a nursery with advanced technologies including modern and computerized unit, climate updated nursery, independent weather station, use of solar unit and provided permanent employment to 50 employees.

57. Demonstration of Drone Technology organized



February 25, 2022. The Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management (CAAST), MPKV, Rahuri had organized demonstration of pesticides spraying by drone on farm of progressive farmer Shri. Machindra Thorat at Ukkalgaon, Tal. Shrirampur, Dist. Ahmednagar. Vice Chancellor Dr. P.G. Patil presided over this demonstration programme. For this programme, Sub-Divisional Officer and Executive



Magistrate of Shrirampur Shri. Anil Pawar, Technical Officer and Sub-Divisional Agriculture Officer Shri. Pandurang Salve, Principal Investigator, CAAST project Dr. S. D. Gorantiwar, Co-PI Dr. M. G. Shinde, Dr. S. M. Nalawade, Head, Department of FMPE, progressive farmer Shri. Indrabhan Thorat and other farmers were present. Dr. Patil guided the farmers on this occasion. Dr. Nalawade guided the farmers and scientists about the importance, need and advantages, disadvantages of drone technology. Dr. Girishkumar Bhange gave a demonstration of spraying pesticides on onion crop by drone and solved the problems of the farmers.

58. Training programme organized for Radio Jockeys



February 18, 2022. The Department of Agricultural Extension and Communication, Post Graduate Institute, MPKV, Rahuri had organized a two-day training programme for Radio Jockeys under the scheduled caste special package. The inaugural of this training programme was presided over by Dr. M. C. Ahire, Associate Dean, AHCOA, Halgaon. Dr. G. K. Sasane, Professor of Agril. Extension, Shri. Sudam Batule, Broadcasting Officer, Ahmednagar, Shri. Shashikant Jadhav, Narrator, AIR, Ahmednagar, Mrs. Vina Dighe, Narrator, Dr. S. S. Sadaphal and Dr. D. N. Pharate were present on this occasion. Dr. Ahire and Mr. Batule guided the trainees. In this training programme Dr. Alok Jatratkar, Public Relations Officer, Shivaji University,

Kolhapur, Dr. N. D. Bhute, Entomologist, Shri. Santosh Jadhav, AIR Mumbai Station Officer, Shri. Shashikant Jadhav, Mrs. Vina Dighe, Prof. Sunil Borude, Prof. Rupali Ghodke guided the trainees. Dr. A. M. Chavai anchored the programme. More than 150 students of the university attended the programme through offline and online mode.

59. Celebration of World Pulses Day



February 10, 2022. The World Pulses Day and Azadi Ka Amrit Mahotsav was celebrated at the Pulses Improvement Project of the university in association with Pulses Improvement Project and Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon. Chief Scientist of the Pulses Improvement Project Dr. N. S. Kute, Entomologist Prof. Changdev Vayal gave detailed information about pulses crops and their diseases, pests and their control. Shri. Tarachand Gagare, a progressive farmer of the ICAR Farmer FIRST Project and Shri. Mahesh Bhusare, student of PAHCOA, Halgaon and Miss. Kadambari Sonawane expressed their thoughts. On this occasion, Dr. Manaji Shinde, Chickpea Breeder, Dr. Somnath Dhonde, Maize Breeder, Dr. Vishwas Chavan, Pathologist, Dr. Sudarshan Latke, Dr. Vivekananda Kulkarni were present.

60. Training programme on Contribution of Media in Agricultural Extension

February 17, 2022. The Division of Agril. Extension and Communication, College of Agriculture, Dhule had organized a two days training programme



on Contribution of Media in Agricultural Extension for students sponsored by ICAR, New Delhi through SCSP grants under the guidance of Dr. C. D. Deokar, Associate Dean, COA, Dhule. During the conclusion of the training programme Dr. Deokar distributed certificates to the students who successfully completed the training. Dr. Somnath Sonwane, Professor of Agricultural Engineering presided over the inauguration of the training programme and Dr. S. D. Patil, I/C Professor, Division of Agril. Extension and Communication and Dr. Vikrant Bhalerao, Nodal Officer of the College were present for the programme. Mr. Lalit Chavan, Prof. Rajshree Sonawane, Prof. Vijay Palve, Dr. Pandurang Shendge, Dr. S. D. Patil and Prof. Dinesh Suryavanshi were present as trainers and subject experts during this training.

61. University scientists guided tomato farmers



February 3, 2022. The university scientists guided the tomato farmers in Akole and Sangamner talukas of Ahmednagar district through field visits. Taluka Agriculture Officers of Agriculture Department were pres-

ent on this occasion. Dr. D. T. Pacharane, Incharge, Agricultural Technology Information Centre, Dr. Aniket Chandanashive, Incharge scientist, Tomato improvement project, Prof. Ansar Attar, SMS, Horticulture, Prof. Somnath Pawar, Entomologist and Dr. Nandlal Deshmukh, Research Associate, HORTSAP project visited the farms of tomato growers of Kalas budruk in Akole taluka and Nimaj in Sangamner taluka. Accordingly, the scientists gave thorough guidance to the farmers for integrated control of pests and diseases.

March-2022

62. Celebration of 54th Foundation Day of the University



March 29, 2022. The 54th foundation day of the university was organized at Mahatma Phule Krishi Vidyapeeth, Rahuri. Dr. C. D. Mayee, former Chairman of Agricultural Scientist Recruitment Board (ASRB), New Delhi was the Chief Guest for this programme. Vice Chancellor Dr. P.G. Patil presided over this programme. On this occasion Dr. Ashok Dhawan, Vice Chancellor, Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani, former Vice Chancellors of MPKV Dr. S. N. Puri, Dr. R. B. Deshmukh, Dr. T. A. More, Dr. S. S. Magar, former Vice Chancellor of DBSKKV, Dapoli, Dr. K. E. Lawande, former Vice Chancellor of DBSKKV, Dapoli, Shri. Dattatraya Ugale, Member, Executive Council, MPKV, Rahuri, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. P. N. Rasal, Dean, Faculty of Agriculture, Shri. Pramod Lahale, Registrar, Shri. Sukhdev Balme, Comptroller, Shri. Milind

Dhoke, University Engineer were present for the programme. Dr. Mayee and Dr. Patil guided the audience during the programme. The best teacher awards were awarded by the dignitaries to Dr. Ulhas Surve (Post Graduate Institute, Rahuri), Dr. Anand Jadhav (College of Agriculture, Pune), Dr. Abhaykumar Bagde (RCSM College of Agriculture, Kolhapur) and Dr. Sandeep Patil (College of Agriculture, Dhule). Outstanding Scientist Award was given to Dr. Milind Deshmukh, Soybean Breeder, Kasbe Digraj. The best field manager award was given to Dr. Narendra Kashid, Officer Incharge, Agriculture Research Station, Wadgaon Maval. The Best Research Center (Large Group) award was given to the Central Sugarcane Research Station, Padegaon and the Best Research Center (Small Group) award was given to the All India Coordinated Groundnut Improvement Project, Rahuri. Dr. Uttam Chavan, Head, Department of Food Science and Technology was felicitated for getting Patent for Nanktai/Cookies Biscuits prepared in the Bakery Unit of the University. Former University Engineer Shri. Karbhari Dhavale was also felicitated by dignitaries on this occasion. Student Welfare Officer Dr. Mahaveersing Chauhan, Incharge Officer, Communication Center Dr. Pandit Kharde, Dr. Sachin Sadaphal and Mr. Siddharth Salve were honoured on this occasion for preparing University song. Workers Mr. Ganpat Thorat and Mrs. Kalpana Khedkar were also felicitated. Dr. Gadakh gave the introductory remarks. The programme was anchored by Dr. B. A. Deshmukh and Dr. Rasal offered vote of thanks.

63. Dr. P. G. Patil appointed as Acting Vice Chancellor of YCMOU, Nasik

March 7, 2022. Dr P. G. Patil, Vice Chancellor, MPKV, Rahuri has been appointed as the Acting Vice Chancellor of Yeshwantrao Chavan Maharashtra Open University, Nasik by the Hon'ble Governor of Maharashtra. A programme was organized in the university



to felicitate Vice Chancellor Dr. P. G. Patil and also on completion of his one year tenure as Vice Chancellor of MPKV, Rahuri. Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. P. N. Rasal, Dean, Faculty of Agriculture, Shri. Pramod Lahale, Registrar, Shri. Sukhdev Balme, Comptroller, Shri. Milind Dhoke, University Engineer were present on this occasion. Officers and scientists expressed their feelings and gave their best wishes to Dr. Patil. Responding to the felicitation Dr. P. G. Patil said that he is proud to be serving as the Vice Chancellor of the leading Agricultural University of Rahuri in the state and will try his best to serve YCMOU. Let's try to raise the ranking of the university with the cooperation of all officers and employees, he said. Dr. Rasal introduced and welcomed everyone. Shri. Lahale expressed vote of thanks.

64. Patent granted to MPKV Nanktai, Cookies/Biscuits



March 27, 2022. Nanktai Cookies/Biscuits manufactured at the bakery unit run by the Department of Food Science and Technology, MPKV, Rahuri has been granted the Intellectual Property Rights Certificate i.e.

Patent Act 1970 for 20 years. Due to this, the quality and all rights of Nanktai Cookies/Biscuits prepared by this bakery has been acquired by the University. Vice chancellor Dr. P.G. Patil congratulated Dr. U. D. Chavan, Head, Department of Food Science and Technology and his colleagues for their grand success of obtaining patent. In the bakery unit of the university, with the help of latest equipments, nutritious products such as bread, banpav, nankatai, surti butter, milk toast, nachini biscuits and ayurvedic cookies are prepared scientifically in a clean, safe environment. Biscuits like Phule Shatavari, Phule Ashwagandha, Phule Amla, Phule Pudina and Phule Behda are manufactured in the bakery unit in a scientific and hygienic manner. So far more than 650 people have received training in fruit and vegetable processing technology and thirty of them have started their own business. Dr. Chavan informed that more than two hundred and thirty youths have completed the training of bakery technology and fifteen of them have started their own bakery business and provided employment opportunities to others.

65. Dr. S. K. Chaudhary, Deputy Director General (NRM) visited MPKV, Rahuri



March 28, 2022. The Department of Soil Science and Agricultural Chemistry and the Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management (CAAST),

MPKV, Rahuri jointly organized an Expert lecture on Natural Resource Management in accordance with the Changing Climate. Dr. S. K. Chaudhary, Deputy Director General (Natural Resource Management), ICAR, New Delhi was the Resource Person and Speaker of this programme. Vice Chancellor Dr. P.G. Patil presided over this programme. Dr. P. N. Rasal, Dean, Faculty of Agriculture, Dr. B. D. Bhakare, Head, Department of Soil Science and Agricultural Chemistry, Dr. S. D. Gorantiwar, Principal Investigator, CAAST and Shri. P. N. Lahale, Registrar were present on this occasion. Dr. Chaudhary and Dr. Patil guided the staff and students. On this occasion, Rock and Mineral Museum, Soil Bank, Computer Lab and Interactive Classroom for students were inaugurated by dignitaries. The welcome and preamble was done by Dr. Bhakare. The program was anchored by Dr. Ritu Thackeray and Dr. Vijay Patil offered vote of thanks. In the morning session, Dr. Chaudhary visited the farm of CAAST project and Organic Farming System Project and took information about the research. A demonstration of spraying sugarcane by drone was organized. Dr. Gorantiwar, Dr. M.G. Shinde, Dr. S. M. Nalawade, Dr. U. S. Surve and Dr. P. L. Kulwal gave information about the research carried out in the University.

66. Organization of World Water Day



March 28, 2022. The Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management (CAAST), MPKV, Ra-

huri and Indian Institute of Engineers at MPKV, Rahuri had organized World Water Day. Dr. A. K. Singh, Vice President of National Academy of Agricultural Sciences, New Delhi was present as Expert lecturer on this occasion. Vice-Chancellor Dr. P. G. Patil presided over the programme. Dr. Z. P. Patel, Vice Chancellor, Navsari Agricultural University, Gujarat was present as the guest of honour. On this occasion Dr. M. M. Anekar, President, Ahmednagar Engineer Association, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. P. N. Rasal, Dean, Faculty of Agriculture, Shri. Pramod Lahale, Registrar, Shri. Sukhdev Balme, Comptroller, Shri. Milind Dhoke, University Engineer, Associate Dean and Convener of the programme Dr. D. D. Pawar, Dr. S. D. Gorantiwar, PI, CAAST, Dr. S. B. Nandgude, Organizing Secretary, Co-PI, CAAST Dr. M.G. Shinde and joint secretary of the programme Dr. A. A. Atre were present for this programme. Dr. Singh and Dr. Patel guided the audience. Dr. P. G. Patil in his presidential address said that water is precious for human life. For that, the available water should be used properly and sparingly. Dr. Gadakh informed about the work being done in the university in the field of irrigation and catchment area. Dr. Rasal gave the introductory remarks. Staff and students attended the programme.

67. Shri. Sahebrao Navale and Shri. Dnyaneshwar Bodke are the MPKV IDOLS for the month of March

March 1, 2022. Progressive farmer Shri. Dnyaneshwar Bodke, At.Po. Bodkewadi, Tal. Mulshi, Dist. Pune and agricultural graduate entrepreneur Shri. Sahebrao Navale, At.Po. Maldad, Tal. Sangamner, Dist. Ahmednagar who graduated from College of Agriculture, Pune are the MPKV Idols for the month of March 2022. Shri. Bodke, who has established the Abhinav Farmers Club, has connected 250 farmer groups in 30 districts of Maharashtra and 1 lakh 56 thousand farmers in Maharashtra, Gujarat, Andhra Pradesh, Madhya Pradesh,



Uttar Pradesh and Rajasthan. This club provides direct marketing from producer to consumer through online portal (Abhinav Cart) for marketing of organic vegetables, fruits, grains and milk. Shri. Navale who is an agricultural entrepreneur, started the water conservation work from Maldad village. This has resulted in increased irrigated area in the village. Shri. Navale is the founder of Shramik Krishi Seva Kendra, Shramik Milk and Food Processing Industries, Shramik Education Society as well as S. R. Navale Patil Petroleum providing permanent employment to more than 750 families through this industry.

68. Rabi Technology Day organized



March 9, 2022. A Rabi Technology Day, Shihar Feri and crop demonstrations were organized at Sorghum Improvement Project of the university on the occasion of 75 years of Independence and 2023 International Year of Cereals in association with Department



of Agriculture, Government of Maharashtra. Shri. Vikas Patil, Director, Extension and Training, M.S. was the chief guest of the programme. Dr. S. R. Gadakh, Director of Research and Extension Education presided over the programme. Shri. Sahebrao Navale, MPKV Idol, Dr. P. N. Rasal, Dean, Faculty of Agriculture, Shri. Pramod Lahale, Registrar, Mr. Sukhdev Balme, Comptroller, Associate Dean Dr. S. A. Ranpise, former Director of Extension Education Dr. H. G. More, Heads of Department Dr. U. D. Chavan, Dr. V. A. Amolik, District Superintendent Agriculture Officer Shri. Shivaji Jagtap were present for this programme. Dr. Gadakh, Shri. Patil, Shri. Navale and Dr. Rasal guided the farmers. Scientists Dr. U. D. Chavan, Dr. S. S. Dodke, Dr. N. S. Kute, Dr. D. D. Dudhade and Dr. Satchidananda Tambe guided the farmers about rabi crops. An agricultural exhibition of rabi crops was organized on this occasion. The programme was anchored by Dr. B. A. Deshmukh and vote of thanks was offered by Dr. P. B. Kharde. The Heads of Departments, scientists of the University, officials of the Department of Agriculture, farmers and students were present on this occasion.

69. Vice chancellor Dr. P. G. Patil visited ARS, Lonavala



March 16, 2022. Vice Chancellor Dr. P. G. Patil visited the Agriculture Research Station, Lonavala. Dr. Patil reviewed the various research works being done in the research station. This Agriculture Research Station has given many recommendations for the control

of various diseases on rice crop and for developing disease resistant varieties, disease resistant donor varieties which have been recommended by rice breeders. The Officer Incharge of the research station Dr. K. S. Raghuvanshi presented various research experiments of the station and All India Coordinated Project, importance of green manure and use of Azolla, seed production and extension programmes. On this occasion, other employees of the station were also present.

70. Training programme on Leadership qualities and Skill development organized



March 21-23, 2022. A three days Training programme on Leadership qualities and Skill development for scientists was jointly organized by Department of Agricultural Extension and Communication, MPKV, Rahuri and Extension Education Institute, Anand, Gujarat. The inaugural programme was presided over by Dr. P. N. Rasal, Dean, Faculty of Agriculture. On this occasion, Dr. M. C. Ahire, Head, Department of Agricultural Extension and Communication, Dr. S. B. Shinde, former Head, Department of Agricultural Extension and Communication, Dr. Keyur Gardharia, EEI, Anand and Shri. A. P. Neenama, Mr. V. J. Patel were present for the training.

71. Students awarded with Late Mrs. Mohini Prahlad Chhabria Scholarship

March 25, 2022. Mahatma Phule Krishi Vidyapeeth, Rahuri and Mukul Madhav Foundation, Finolex Industries Ltd., Pune have signed an MoU for scholarship in 2019. Accordingly, on behalf of Mukul Madhav



Foundation, Rs. 50,000 per student per year scholarship has been started since 2019. Scholarships are given to 59 students of College of Agriculture Pune, Kolhapur, Dhule, Karad, Nandurbar, Muktainagar, Halgaon, Dr. ASCAE & T and Post Graduate Institute every year. On this occasion, Finolex Industries (Pipes), C.S.R. on behalf of partner Mukul Madhav Foundation, the late Mrs. Mohini Prahlad Chhabria Scholarship was distributed to the students of Dr. Anasaheb Shinde College of Agril. Engg. and Technology and Ahilyadevi Holkar College of Agriculture, Halgaon. The program was presided over by Dr. P. N. Rasal, Dean, Faculty of Agriculture. On this occasion, Associate Deans Dr. D. D. Pawar, Dr. M. C. Ahire, Divisional Marketing Manager, Finolex Shri. Yogesh Raut and Technical Officer Dr. S. B. Bhange were present for this programme.

72. 3rd Inter University Staff Sports Tournament held at Dapoli

March 1-3, 2022. The third Inter University Staff Sports Competition was carried out at Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli. Five teams of Rahuri, Parbhani, Akola University along with Mahabeej and host Dr. Balasaheb Sawant Konkan Agricultural University, Dapoli participated in this tournament. Over 250 women and men players participated in the competition. Rahuri's men's team won the team title in table tennis and the women's team won the runner-up position in chess. In Basketball and Kabaddi, Rahuri's men's team secured the runner-up position.



In the individual 200 m. and 400 m., Dr. Ravindra Bansod won in the running competition. Kavita Jadhav won the women's 200 m., while, Maya Thorat won 400 m. in the running competition. In men's 800 m. Shri. Sharad Shirsath won the runner-up position in the running competition. Dr. J. P. Gaikwad was the runner-up in singing competition. After the end of the match, prize distribution programme was organized in which medals and certificates were distributed at the auspicious hands of Dr. S. D. Sawant, Vice Chancellor, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli.

73. Dr. Rajendrasingh Rana's visit to College of Agriculture, Pune

March 28, 2022. Dr. Ramon Magsaysay Award recipient and popularly known as Jalpurush and Paniwale Baba, Dr. Rajendrasingh Rana was present on occasion of visit to Watershed Park in College of Agriculture, Pune under MPKV, Rahuri. Dr. Rajendrasingh Rana guided the staff and students. On this occasion the President of Vanrai Mr. Rajendra Dharia, retired Executive Director of Yashada Shri. Mr. Sumit Pandey, Dr. Kalshetty, State Institute for Rural Development of Yashada, Dr. S. D. Masalkar, Associate Dean, College of Agriculture, Pune and Dr. Ravindra Bansod, Head, Division of Agril. Engineering participated in this programme.

6. Awards

1. Dr. Milind Ahire appointed as Joint Secretary of the International Society of Extension Education



May 25, 2021. Dr. Milind Ahire, Head, Department of Agriculture Extension and Communication and Associate Dean, Punyashlok Ahilyadevi Holkar College of Agriculture,

Halgaon has been appointed as Joint Secretary of the International Society of Extension Education, Nagpur.

2. Dr. Milind Ahire honoured with Dr. G. S. Vidhyarthi award

October 8, 2021. Dr. Milind Ahire, Head, Department of Agriculture Extension and Communication and Associate Dean, Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon was felicitated with the Dr. G. S. Vidhyarthi prestigious award of Indian Society of Extension Education at the hands of Mr. Ravindra Jaiswal, Minister of State for Social Justice, U.P. during the National Seminar of Indian Society of Extension Education organized at Banaras Hindu University, Varanasi, Uttar Pradesh. Dr. U. S. Gautam, Vice Chancellor, Banda Krishi Vigyan Vidyapeeth and President of Indian Society Extension Education and Dr. A. K. Singh, DDG (Extension), ICAR, New Delhi were present.

3. Dr. U. S. Surve elected unopposed as Councillor of Indian Society of Agronomy



March 24, 2022. Dr. U. S. Surve working as Associate Professor in Department of Agronomy, MPKV, Rahuri was elected unopposed as the Councillor of the Indian Society of Agronomy, New Delhi.

4. University scientists honoured with various awards



October 8, 2021. MPKV extension scientists bagged awards in the National Semi-

nar of Indian Society of Extension Education organized at Banaras Hindu University, Varanasi, Uttar Pradesh. Dr. Sandeep Patil, Associate Professor of Extension, College of Agriculture, Dhule was bestowed with Young Scientist Award of the Indian Society of Extension Education and Dr. Anand Chavai bagged the award for best poster presentation in the seminar.

5. Dr. A. G. Durgude honoured with Mrudagandh Award 2020



December 27, 2021. Dr. A. G. Durgude, Soil Scientist, MPKV, Rahuri was honoured with Mrudagandh-2020 award in the statelevel seminar of Dapoli chapter of Soil Science organized at DBSKKV, Dapoli. The award was given on behalf of Parbhani chapter of Soil Science, Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani to Dr. Durgude for his remarkable contribution in the field of soil science. The award was given at the auspicious hands of Dr. S. D. Sawant, Vice Chancellor, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli.

6. Dr. Ashok Walunj honoured with Best Presentation Award



January 4, 2022. A three-day National Seminar on Crop protection of horticultural crops was organized in collaboration with Indian Institute of Horticulture Research, Bangalore and Pest Management Association

under the Indian Council of Agricultural Research, New Delhi. In this seminar, scientists from various research institutes and universities at the national level participated and presented their research papers. On this occasion Dr. Ashok Walunj, Entomologist, MPKV, Rahuri was awarded the Best Presentation Award for his presentation on Disease Management on Pomegranate.

7. Best Research Paper Award to Dr. Sunil Karad in National Conference



March 27, 2022. A National Symposium on Managing Climate and Atmospheric Hazards in Agriculture was organized at Sher-e-Kashmir University of Agriculture and Technology, Srinagar. In this seminar Dr. Sunil Karad, Associate Professor of Botany, RSCM College of Agriculture, Kolhapur presented the research paper. Presentation of a research paper on maize crop on the topic of creating new varieties for changing environment by Dr. Karad got the first prize in the seminar. The said award was given at the auspicious hands of Dr. Nazir Ganay, Vice Chancellor, Sher-e-Kashmir University of Agriculture and Technology.

8. Agricultural University received two awards under National Service Scheme



August 13, 2021. National Service Scheme State Level Awards 2020-21 has been announced recently.

Student Aniket Vakle from College of Agriculture, Pune received state level best volunteer award, while, Prof. Pravin Gaikar, Programme Officer of NSS from College of Biotechnology, Loni received Motivational award.

9. Student Miss. Akshata Annadate received National Award



March 23, 2022. Miss. Akshata Annadate, a student from Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon received National Award for her short film in Marathi. A national level competition of short films on the agriculture theme in different languages in India was organized by MANAGE, Hyderabad. There were 273 films in 11 languages from 107 contestants from 20 states of India. Out of all these films, awards were given only for 16 agricultural films in 11 languages. For an excellent short film in Marathi language, Miss. Akshata Annadate was felicitated with a certificate and a memento by Karnataka State Agriculture Minister Shri. B.C. Patil and Director General of MANAGE Dr. P. Chandrashekara at MANAGE, Hyderabad.

7. Human Resource

7.1 Executive Officers

Sr. No.	Executive Officer		Period
1	The Chancellor	Hon'ble Shri Bhagat Singh Koshyari	5 th September, 2019 to till date
2	The Pro Chancellor	Hon'ble Shri. Dadaji Bhuse	30 th December, 2019 to till date
3	The Vice Chancellor	Dr. P. G. Patil	2 nd March, 2021 to till date

7.2 Executive Council Members list (1st April, 2021 to 31st March, 2022)

Sr. No.	Category	Hon. Member	Address	Period
1	Ex-officio Chairman	Hon. Vice-Chancellor	Mahatma Phule Krishi Vidyapeeth, Rahuri	--
2	Ex-officio Member	Director of Agriculture (Input & Quality Control) nominated by Agricultural Commissioner, Govt. of Maharashtra	Commissionrate of Agril., Central Building, Pune	--
3	Ex-officio Member	Regional Joint Director of Animal Husbandry nominated by Commissioner of Animal Husbandry	Veternary Despensary, Near Ashok Stambha, Nashik	--
4	Ex-officio Member	Director of Horticulture	Near Superintedant of Agril officer of Maharashtra State office, Narvir Tanaji Road, Shivajinagar, Pune	--
5	Ex-officio Member	Chief Conservator of Forest (Regional)	Old Mumbai-Agra Highway, Tryambak Naka, Opp. to Adivasi Vikas Bhavan, Nashik	--
6	Member (Nominated by V.C.)	Director of Research	Mahatma Phule Krishi Vidyapeeth, Rahuri	24/9/2021 to 23/9/2023
7	Nominated Member (Nominated by V.C.)	Dean (Agril.)	Mahatma Phule Krishi Vidyapeeth, Rahuri	24/9/2021 to 23/9/2023
8	Ex-officio Member	Regional Dairy Development Officer nominated by Dairy Development Commissioner, Govt. Of Maharashtra	Nasik Division, Campus of Govt. Dairy Scheme, Tryambak Raod, Nashik	--



9	Ex-officio Member	Regional Dy. Director of Fisheries, Nasik nominated by Fisheries Commissioner, Govt. of Maharashtra	Old Govt. Ashwin Barrel No.13, Near Divisional Comminssior Office, Nashik Road, Nashik	--
10	Member (Agriculture Scientist)	Dr. Bandi Venkateswarlu	House no. 5-5-552, Plot no. 30, Abhyudayanagar, L B Nagar, Hyderabad	31/8/2019 to 30/8/2022
11	Member (Progressive Farmers 05)	Shri. Dattatray Mahadev Ugale	A/P Madilage Budruk, Ta. Bhudargad, Dist .Kolhapur	27/05/2021 to 26/05/2024
12		Shri. Nathaji Dattatray Chowgule	A/P Malwadi, Kotvali, Tal. Panhala, Dist. Kolhapur	30/7/2018 to 29/7/2021
13		Mrs. Sunita Jaywant Patil	A/P Binchur (Bhavaninagar) Tal. Valva, Dist. Sangli	30/7/2018 to 29/7/2021
14		Dr. Pankajkumar Suresh Mahale	Plot. No. 65, Jay Hind Colony, Deopur, Dhule	30/7/2018 to 29/7/2021
15		Dr. Vijayprakash Kisanrao Thombre	A/P Mangalvar Peth, Kej, Dist. Beed	30/7/2018 to 29/7/2021
16	Member (ICAR Nominate) (One)	Dr. Major Singh, Director	ICAR-Directorate of Onion and Garlic Research, Pune-Nashik Highway No. 50, Rajgurunagar, Pune	26/3/2021 to 25/3/2024
17	Agro Industrialist (One)	Shri. Dattatray Bhavusaheb Pansare	Shri Dattakrupa Niwas, Line No. 02, Banglow no. 2, Opposite Shilpa guardan, Manik Nagar, Ahmednagar	25/7/2019 to 24/7/2022
18	Member (Member Maharashtra Legislative Assembly-03)	Vacant Post	--	--
19		Vacant Post	--	--
20		Vacant Post	--	--
21	Member (Member Maharashtra Legislative Council-02)	Hon. MLC, Shri. Narendra Darade	A/P Bhabulgaon, Tal. Yeola, Dist. Nashik	6/2/2019 to 21/6/2024
22		Hon. MLC, Shri. KishoWr Darade	House no. 3426, old mali galli, Yeola, Tal. Yeola, Dist. Nashik	23/12/2020 to 7/7/2024
23	Member (Chairman of Agril. Committee of ZP) (Two)	Vacant Post	--	--
24		Vacant Post	--	--
25	Ex-officio Member Secretary	Registrar	Mahatma Phule Krishi Vidyapeeth, Rahuri	--
26	Invitee	Comptroller	Mahatma Phule Krishi Vidyapeeth, Rahuri	--

7.3 Academic Council Members (1st April 2021 to 31st March 2022)

Sr. No.	Category	Hon. Member Name / Designation	Address	Remark
1	Ex-officio Chairman	Hon. Vice Chancellor	Mahatma Phule Krishi vidyapeeth, Rahuri	
2	Ex-officio Member	Director of Extension Education	Mahatma Phule Krishi vidyapeeth, Rahuri	
3	Ex-officio Member	Director of Instruction	Mahatma Phule Krishi vidyapeeth, Rahuri	
4	Ex-officio Member	Director of Research	Mahatma Phule Krishi vidyapeeth, Rahuri	
5	Ex-officio Member	Dean (Agril.)	Mahatma Phule Krishi vidyapeeth, Rahuri	
6	Ex-officio Member	Dean (Agril. Engg.)	Mahatma Phule Krishi vidyapeeth, Rahuri	
7	Ex-officio Member	Associate Dean (PGI)	Post Graduate Institute, Mahatma Phule Krishi vidyapeeth, Rahuri	
8	Ex-officio Member	Associate Dean (CAE)	Dr. Annasaheb Shinde College of Agricultural Engineering & Technology, Mahatma Phule Krishi vidyapeeth, Rahuri	
9	Ex-officio Member	Associate Dean (LAE)	Lower Agriculture Education, Mahatma Phule Krishi vidyapeeth, Rahuri	
10	Ex-officio Member	Associate Dean	College of Agriculture, Pune	
11	Ex-officio Member	Associate Dean	Rajarshee Chhatrapati Shahu Maharaj College of Agriculture, Kolhapur	
12	Ex-officio Member	Associate Dean	College of Agriculture, Dhule	
13	Ex-officio Member	Associate Dean	College of Agriculture, Nandurbar	
14	Ex-officio Member	Associate Dean	College of Agriculture, Karad	
15	Ex-officio Member	Associate Dean	College of Agriculture, Muktainagar, Jalgaon	
16	Ex-officio Member	Associate Dean	Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon	
17	Ex-officio Member	Associate Dean	College of Agriculture Business Management, Kashti	
18	Ex-officio Member	Head, Department of Agronomy	Mahatma Phule Krishi vidyapeeth, Rahuri	
19	Ex-officio Member	Head, Dept. of Animal Science and Dairy Science	Mahatma Phule Krishi vidyapeeth, Rahuri	

20	Ex-officio Member	Head, Department of Agril. Botany	Mahatma Phule Krishi vidyapeeth, Rahuri	
21	Ex-officio Member	Head, Department of Soil Sci. & Chemistry	Mahatma Phule Krishi vidyapeeth, Rahuri	
22	Ex-officio Member	Head, Department of Agril. Economics	Mahatma Phule Krishi vidyapeeth, Rahuri	
23	Ex-officio Member	Head, Department of Agril. Enggineering	Mahatma Phule Krishi vidyapeeth, Rahuri	
24	Ex-officio Member	Head, Department of Agril. Entomology	Mahatma Phule Krishi vidyapeeth, Rahuri	
25	Ex-officio Member	Head, Department of Agril Extension	Mahatma Phule Krishi vidyapeeth, Rahuri	
26	Ex-officio Member	Head, Department of Horticulture	Mahatma Phule Krishi vidyapeeth, Rahuri	
27	Ex-officio Member	Head, Department of Plant Pathology	Mahatma Phule Krishi vidyapeeth, Rahuri	
28	Ex-officio Member	Head, Dept. of Food Science & Technology	Mahatma Phule Krishi vidyapeeth, Rahuri	
29	Ex-officio Member	Head, Department of Bio-Chemistry	Mahatma Phule Krishi vidyapeeth, Rahuri	
30	Ex-officio Member	Head, IFD-Irrigation Water Management	Mahatma Phule Krishi vidyapeeth, Rahuri	
31	Ex-officio Member	Head, Department of Farm Machinery & Power, Mech. Engg., Physics,	Mahatma Phule Krishi vidyapeeth, Rahuri	
32	Ex-officio Member	Head, Department of Irri.& Drainage Engg.	Mahatma Phule Krishi vidyapeeth, Rahuri	
33	Ex-officio Member	Head, Dept. of Soil & Water Conservation Engg.,	Mahatma Phule Krishi vidyapeeth, Rahuri	
34	Ex-officio Member	Head, Department of Agril. Process Engg.,	Mahatma Phule Krishi vidyapeeth, Rahuri	
35	Ex-officio Member	Head, Department of Farm Sturcture, Rural Elect., Civil & Elect. Engg.	Mahatma Phule Krishi vidyapeeth, Rahuri	
36	Ex-officio Member	Head, Department Agril. Meterology	College of Agriculture, Pune	
37	Ex-officio Member	Soils Specialist	Agril. Research Station, Solapur	
38	Ex-officio Member	Sugarcane Specialist	Central Sugarcane Research Station, Padegaon	
39	Ex-officio Member	Oilseeds Specialist	Oilseeds Research Station, Jalgaon	
40	Ex-officio Member	Wheat Specialist	Wheat Research Station, Niphad, Dist. Nashik	
41	Ex-officio Member	Student Welfare Officer	Mahatma Phule Krishi vidyapeeth, Rahuri	

42	Ex-officio Member Secretary	Registrar	Mahatma Phule Krishi vidyapeeth, Rahuri	
Invitee Member (As per decision of AC (68) held on 15/2/96, vide subject No. 2)				
43	Invitee	Associate Director of Research	NARC, Sub-Montane Zone, Shenda Park, Kolhapur	
44	Invitee	Associate Director of Research	NARC, Plain Zone, Ganeshkhind, Pune	
45	Invitee	Associate Director of Research	NARC, Western Ghat Zone, Igatpuri, Dist. Nashik	
46	Invitee	Associate Director of Research	NARC, Scarcity Zone, Raviwarpeth, Solapur	
Invitee Member (As per decision of AC (95) held on 14/02/11)				
47	Invitee	Principal	College of Horticulture, Pune	
Invitee Member (As per decision of AC (98) held on 14/02/13)				
48	Invitee	Associate Director of Research	Office of the Directorate of Research, MPKV, Rahuri	
Co-opt Members (As per amended subject no. 14 (13) of Academic council (115) held on 09/04/2021)				
49	Co-opt. Member	Dr. V. V. Sadamate, (Agril. Extension Specialist & Former Adviser, Agriculture Planning Commission, Govt. of India)	C-309, Kendriya Vihar, Sector 56, Gurgaon-122 011, Delhi	30/6/2021 to 29/6/2023
50	Co-opt. Member	Dr. H. G. More, (Ex. Dean & Director of Extension Education, MPKV, Rahuri)	Mitra Parivar Colony, Behind the Datta Vsahat, Rahuri Kh., Tal : Rahuri, Dist : Ahmednagar 413 705	30/6/2021 to 29/6/2023
51	Co-opt. Member	Dr. Himanshu Pathak Director	ICAR- National Institute of Abiotic Stress Management, Malegaon, Baramati, Pune - 413115	30/6/2021 to 29/6/2023
52	Co-opt. Member	Dr. Y. G. Prasad, Director	ICAR- Central Institute for Cotton Research, Post Bag No. 2, Shankar Nagar Post Office, Nagpur 440 010	30/6/2021 to 29/6/2023
Principal of Affiliated Colleges (MAU Act 1983, Section 33 (2) (viii) read with Statute 4 (viii)				
53	Member	The Principal	College of Agril. Business Manegement, Narayangaon, Dist. Pune	
54	Member	The Principal	College of Agriculture, Akluj, Dist. Solapur	
55	Member	The Principal	College of Agril. Biotechnology, Vidyanagari, Bhigwan Road, Baramati, Dist. Pune	
56	Member	The Principal	College of Agriculture, Ambi, Tal-Wadgaon Maval, Dist. Pune	
57	Member	The Principal	K.K.Wagh College of Agriculture, Nasik, Dist. Nasik	



7.4 Academic Officer

Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Dean, Faculty of Agril. and Director of Instruction	Dr.A.L.Pharande	37400-67000 +10000 AGP + 4000 SPLA	01.04.2021	31.08.2021
		Dr. P.N. Rasal	37400-67000 +10000 AGP + 4000 SPLA	01.09.2021	31.03.2022
2.	Director of Research	Dr.S.R.Gadakh	37400-67000 +10000 AGP + 4000 SPLA	01.04.2021	31.03.2022
3.	Director of Extension Education	Dr.S.R.Gadakh Holding additional charge	37400-67000 +10000 AGP + 4000 SPLA	01.04.2021	31.03.2022
4.	Associate Dean (PGI)	Dr. P.N.Rasal	37400-67000 +10000 AGP + 3000 SPLA	01.04.2021	31.03.2022
5.	Associate Dean, Agril. Engineering	Dr.D.D.Pawar	37400-67000 +10000 AGP + 3000 SPLA	01.04.2021	31.03.2022
6.	Associate Dean (LAE)	Dr.S.A.Ranpise Addl. Charge	37400-67000 +10000 AGP	01.04.2021	31.03.2022
7.	Associate Dean, College of Agril. Dhule	Dr.C.D.Deokar Holding additional charge	37400-67000 +10000 AGP	01.04.2021	31.03.2022
8.	Associate Dean, College of Agril.Pune	Dr.S.D.Masalkar Holding additional charge	37400-67000 +10000 AGP + 3000 SPLA	01.04.2021	31.03.2022
9.	Associate Dean, College of Agril. Kolhapur	Dr.S.R.Shinde Holding additional charge	37400-67000 +10000 AGP + 3000 SPLA	01.04.2021	31.05.2021
		Dr. U.B.Hole Holding additional charge	37400-67000 +10000 AGP + 3000 SPLA	01.06.2021	31.03.2022
10.	Associate Dean, College of Nandurbar	Dr.S.B.Kharbade	37400-67000 +10000 AGP + 3000 SPLA	01.04.2021	31.03.2022
11.	Associate Dean, College of Agril. Karad	Dr.R.R.Surywanshi Incharge, Associate Dean	37400-67000 +10000 AGP + 3000 SPLA	01.04.2021	31.03.2022
12.	Associate Dean, College of Agril. Halgaon	Dr.M.C.Ahire Holding additional charge	37400-67000 +10000 AGP + 3000 SPLA	01.04.2021	31.03.2022
13.	Associate Dean, College of Agril. Muktainagar	Dr.S.C.Patil Holding additional charge	37400-67000 +10000 AGP + 3000 SPLA	01.04.2021	31.03.2022
14.	Associate Dean, College of Agril. Kashti	Dr.P.N.Shendge Holding additional charge	37400-67000 +10000 AGP + 3000 SPLA	01.04.2021	12.01.2022
		Dr. V.A. Shinde Holding additional charge	37400-67000 +10000 AGP + 3000 SPLA	01.04.2021	31.03.2022



7.5 Academic Staff- Head of Department (Annual Report 1.04.2021 to 31.03.2022)

Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Head, Department of Agronomy	Dr.A.V.Solanke Holding additional charge	37400-67000 +10000 AGP	01.04.2021	31.03.2022
2.	Head, Department of Soil Science & Agril. Chemistry	Dr.B.D.Bhakre	37400-67000 +10000 AGP	01.04.2021	31.03.2022
3.	Head, Department of Agril. Botany	Dr.A.S.Jadhav Addl.Charge	37400-67000 +10000 AGP	01.04.2021	31.05.2021
		Dr. V. L. Amolic Add. Charge	37400-67000 +10000 AGP	01.06.2021	31.03.2022
4.	Head, Department of Entomology	Dr.C.S.Patil	37400-67000 +10000 AGP	01.04.2021	31.03.2022
5.	Head, Department of Pathology	Dr.T.K.Narute	37400-67000 +10000 AGP	01.04.2021	31.03.2022
6.	Head, Department of Horticulture	Dr.S.A.Ranpise	37400-67000 +10000 AGP	01.04.2021	31.03.2022
7.	Head, Department of Animal Science & Dairy Science	Dr.D.K.Kamble Holding additional charge	37400-67000 +10000 AGP	01.04.2021	31.03.2022
8.	Head, Department of Food Science & Technology	Dr.U.D.Chavan	37400-67000 +10000 AGP	01.04.2021	31.03.2022
9.	Head, Department of Agril. Engineering	Dr.S.D.Gorantiwar	37400-67000 +10000 AGP	01.04.2021	31.03.2022
10.	Head, Department of Agril. Meteorology	Dr.J.D.Jadhav Holding Additional Charge.	37400-67000 +10000 AGP	01.04.2021	31.03.2022
11.	Head, Department of Extension Education	Dr.M.C.Ahire	37400-67000 +10000 AGP	01.04.2021	31.03.2022
12.	Head, Department of Agril. Economics	Dr.D.B.Yadav	37400-67000 +10000 AGP	01.04.2021	31.03.2022

7.6 Other Officers (Annual Report 1.04.2021 to 31.03.2022)

Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Registrar	Shri. Mohan Wagh	37400-67000 + 8700 AGP	01.04.2021	03.05.2021
		Dr.M.S. Mane	37400-67000 + 8700 AGP	04.05.2021	26.07.2021
		Shri. Pramod Lahale	37400-67000 + 8700 AGP	26.07.2021	31.03.2022
2.	Comptroller	Shri.V.A.Kote	15600-39100 + 6600 AGP	01.04.2021	16.07.2021
		Shri. S. B. Balame	15600-39100 + 6600 AGP	17.09.2021	31.03.2022
3.	Students Wealfare Officer	Dr.M.R.Chavan Holding additional charge	15600-39100 + 6600 AGP	01.04.2020	31.03.2021
4.	University Librarian	Shri.A.B.Deshmukh	15600-39100 + 6600 AGP	01.02.2020	31.03.2021
5.	University Engineer	Shri.M.P.Dhokhe	15600-39100 + 7600 AGP	01.04.2020	31.03.2021
6.	Sports Officer	Shri.D.M.Gaikwad Holding additional charge	15600-39100 + 6600 AGP	01.04.2020	31.03.2021
7.	Medical Officer	Dr. (Smt.) V.R.Hile	9300-34800+ 4400 AGP	01.04.2020	31.03.2021



7.7 University Manpower

Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant Posts
1	2	3	4	5	6
Group-A					
1.	Vice-Chancellor	Fix Pay Rs.75,000/- +5000 = 80,000/-	1	1	0
2.	Registrar	37400-67000 + GP 8700 +SPL.4000	1	1	0
3.	Director of Research	37400-67000 + GP 10000 +SPL.4000	1	1	0
4.	Director of Extension Education	37400-67000 + GP 10000 +SPL.4000	1	0	1
5.	Director of Instruction and Dean, Faculty of Agri.	37400-67000 + GP 10000 +SPL.4000	1	0	1
6.	Associate Dean (Agri.)	37400-67000 + GP 10000 +SPL.3000	9	2	7
7.	Associate Dean (Food Science and Technical)	37400-67000 + GP 10000 +SPL.3000	1	0	1
8.	Associate Dean (Engineering)	37400-67000 + GP 10000 +SPL.3000	1	1	0
9.	Associate Dean (Business Management)	37400-67000 + GP 10000 +SPL.3000	1	0	1
10.	Head of Departments	37400-67000 + GP 10000	12	8	4
11.	Professor of Agronomy	37400-67000 + GP 10000	13	4	9
12.	Professor of Soil Science & Agril. Chemistry	37400-67000 + GP 10000	6	2	4
13.	Professor of Bio-Chemistry	37400-67000 + GP 10000	1	0	1
14.	Professor of Food Science and Technology	37400-67000 + GP 10000	1	0	1
15.	Professor of Inter Faculty Water Management	37400-67000 + GP 10000	1	1	0
16.	Professor of Agril. Botany	37400-67000 + GP 10000	18	4	14
17.	Professor of Agril. Entomology	37400-67000 + GP 10000	6	1	5
18.	Professor of Plant Pathology	37400-67000 + GP 10000	9	2	7
19.	Professor of Horticulture	37400-67000 + GP 10000	10	3	7
20.	Professor of Animal Science & Dairy Science	37400-67000 + GP 10000	6	2	4
21.	Professor of Agril. Economics	37400-67000 + GP 10000	6	1	5
22.	Professor of Agril. Extension	37400-67000 + GP 10000	5	2	3
23.	Professor of Statistics	37400-67000 + GP 10000	2	0	2
24.	Professor of Soil Water Conservation Engineering	37400-67000 + GP 10000	2	2	0
25.	Professor of Agril. Process Engineering	37400-67000 + GP 10000	2	2	0
26.	Professor of Irrigation and Drainage Engineering	37400-67000 + GP 10000	2	0	2



27.	Professor of Farm Power and Machinery	37400-67000 + GP 10000	5	0	5
28.	Professor of Physics	37400-67000 + GP 10000	1	0	1
29.	Professor of Electric Engineering	37400-67000 + GP 10000	1	0	1
30.	Professor of Civil Engineering	37400-67000 + GP 10000	1	0	1
31.	Professor of Mathematics	37400-67000 + GP 10000	1	0	1
32.	Associate Director of Research	37400-67000 + GP 10000	3	0	3
33.	Professor of Food Process Technology	37400-67000 + GP 10000	1	0	1
34.	Professor of Food Safety and Quality	37400-67000 + GP 10000	1	0	1
35.	Professor of Food Process Engineering	37400-67000 + GP 10000	1	0	1
36.	Professor of Business Management	37400-67000 + GP 10000	1	0	1
37.	Professor of Food Plant Operations	37400-67000 + GP 10000	1	0	1
38.	Professor of Business Management	37400-67000 + GP 10000	1	0	1
39.	Professor of Marketing	37400-67000 + GP 10000	1	0	1
40.	University Librarian	37400-67000 + GP 10000	1	0	1
41.	Asso.Prof. of Agronomy	37400-67000 + GP 9000	43	33	10
42.	Asso.Prof. Agri.Botany	37400-67000 + GP 9000	33	27	6
43.	Asso.Prof. of Bio-Chmistry	37400-67000 + GP 9000	3	3	0
44.	Asso.Prof. of Soil Science & Agril. Chemistry	37400-67000 + GP 9000	23	14	9
45.	Asso. Prof. of Agri. Entomology	37400-67000 + GP 9000	16	9	7
46.	Asso. Prof. Plant Pathology	37400-67000 + GP 9000	19	12	7
47.	Asso.Prof. Animal Science & Dairy Science	37400-67000 + GP 9000	15	10	5
48.	Asso.Prof. of Agril. Economics	37400-67000 + GP 9000	14	9	5
49.	Asso.Prof., Horticulture	37400-67000 + GP 9000	31	20	11
50.	Asso.Prof, Agril. Extension	37400-67000 + GP 9000	12	10	2
51.	Asso.Prof. Statistics	37400-67000 + GP 9000	2	1	1
52.	Asso.Prof., English	37400-67000 + GP 9000	1	0	1



53.	Asso.Prof. of Hindi/Marathi	37400-67000 + GP 9000	2	0	2
54.	Asso.Prof., Food Science & Technology	37400-67000 + GP 9000	1	0	1
55.	Asso.Prof. of Soil & Conservation Engineering	37400-67000 + GP 9000	6	5	1
56.	Asso.Prof. Agril. Process Engineering	37400-67000 + GP 9000	6	3	3
57.	Asso.Prof. Farm Power Machinery	37400-67000 + GP 9000	4	3	1
58.	Asso.Prof. Irrigation and Drainage Engineering	37400-67000 + GP 9000	4	2	2
59.	Asso.Prof. Physics	37400-67000 + GP 9000	1	0	1
60.	Asso. Prof. Veterinary Science	37400-67000 + GP 9000	2	2	0
61.	Asso. Prof. Food Process Technology	37400-67000 + GP 9000	2	0	2
62.	Asso. Prof. Food Safety and Quality	37400-67000 + GP 9000	2	0	2
63.	Asso. Prof. Food Process Engineering	37400-67000 + GP 9000	2	0	2
64.	Asso. Prof. Food Business Management	37400-67000 + GP 9000	2	0	2
65.	Asso. Prof. Food Plant Operations	37400-67000 + GP 9000	2	0	2
66.	Asso.Prof. of Business Management	37400-67000 + GP 9000	2	0	2
67.	Asso.Prof. of Marketing	37400-67000 + GP 9000	2	0	2
68.	Asso.Prof. of Banking Finance and Auditing	37400-67000 + GP 9000	1	0	1
69.	Asstt.Prof., Agronomy	15600-39100 + GP 6000	68	21	47
70.	Asstt. Prof., Soil Science & Agril. Chemistry	15600-39100 + GP 6000	38	30	8
71.	Asstt.Prof, Bio Chemistry	15600-39100 + GP 6000	5	4	1
72.	Asstt.Prof., Food Science and Technology	15600-39100 + GP 6000	3	0	3
73.	Asstt.Prof. of Agril. Botany	15600-39100 + GP 6000	55	38	17
74.	Asstt.Prof. of Entomology	15600-39100 + GP 6000	48	26	22
75.	Asstt. Prof. of Plant Pathology	15600-39100 + GP 6000	48	35	13

76.	Asstt.Prof. of Animal Science & Dairy Science	15600-39100 + GP 6000	29	13	16
77.	Asstt. Prof. of Agril. Economics	15600-39100 + GP 6000	24	14	10
78.	Asstt. Prof. of Horticulture	15600-39100 + GP 6000	52	40	12
79.	Asstt. Prof. of Agril. Extension	15600-39100 + GP 6000	22	13	9
80.	Asstt. Prof. of Veterinary Science	15600-39100 + GP 6000	5	2	3
81.	Asstt. Prof. of Statistics	15600-39100 + GP 6000	12	6	6
82.	Asstt.Prof. of Mathematics	15600-39100 + GP 6000	2	2	0
83.	Asstt. Prof. of Meteorology	15600-39100 + GP 6000	4	1	3
84.	Asstt. Prof. of English	15600-39100 + GP 6000	3	2	1
85.	Asstt.Prof. of Agril. Environment	15600-39100 + GP 6000	2	0	2
86.	Asstt.Prof. of Food Process Technology	15600-39100 + GP 6000	4	0	4
87.	Asstt.Prof. of Food Safety and Quality	15600-39100 + GP 6000	3	0	3
88.	Asstt.Prof. of Food Process Engineering	15600-39100 + GP 6000	3	0	3
89.	Asstt.Prof. of Food Busines Management	15600-39100 + GP 6000	2	0	2
90.	Asstt.Prof. of Food Process Technology	15600-39100 + GP 6000	3	0	3
91.	Asstt.Prof. of Food Business Management	15600-39100 + GP 6000	3	0	3
92.	Asstt.Prof. of Marketing	15600-39100 + GP 6000	3	0	3
93.	Asstt.Prof. of Banking, Finance and Auditing	15600-39100 + GP 6000	1	0	1
94.	Asstt.Prof. of Soil & Water Conservation Engineering	15600-39100 + GP 6000	10	6	4
95.	Asstt. Prof. of Agril. Process Engineering	15600-39100 + GP 6000	7	3	4
96.	Asstt.Prof. of Farm Power & Machinery	15600-39100 + GP 6000	7	2	5
97.	Asstt. Prof. of Irrigation and Drainage Engineering	15600-39100 + GP 6000	11	9	2
98.	Asstt. Prof. of Physics	15600-39100 + GP 6000	1	0	1



99.	Asstt. Prof. of Electrical Engineering	15600-39100 + GP 6000	1	1	0
100.	Asstt. Prof. of Civil Engineering	15600-39100 + GP 6000	1	0	1
101.	Asstt. Prof. of Mechanical Engineering	15600-39100 + GP 6000	1	1	0
102.	Students Welfare Officer (College Level)	15600-39100 + GP 6000	1	0	1
103.	Deputy Registrar	15600-39100 + GP 6600	2	2	0
104.	Medical Officer	9300-34800+GP 4400	2	1	1
105.	Assistant Registrar / Assistant Comptroller	9300-34800+GP 4600	27	14	13
106.	Deputy Uni. Engineer	15600-39100 + GP 6900	1	0	1
107.	Sports Officer	15600-39100 + GP 6600	1	0	1
108.	Security Officer	9300-34800+GP 4600	1	0	1
109.	Asstt. Engineer Civil	9300-34800+GP 5400	1	1	0
110.	Physical Training Instructor	15600-39100 + GP 6000	10	4	6
111.	College Librarian	15600-39100 + GP 6000	9	2	7
112.	University Engineer	15600-39100 + GP 7600	1	1	0
113.	Comptroller	15600-39100 + GP 6600	1	1	0
114.	Pay and Accounts Officer	9300-34800+GP 4600	3	3	0
115.	Student Welfare Officer	15600-39100 + GP 6600	1	0	1
116.	P.A. to Vice-Chancellor	9300-34800+GP 4600	1	1	0
		Total Cadre -A	935	502	433
Group B					
1.	Office Superintendent	S-15 : 41800-132300	37	28	09
2.	Superintendent(Computer)	S-15 : 41800-132300	02	01	01
3.	Superintendent (Deputation)	S-15 : 41800-132300	03	03	00
4.	Asstt. Superintendent.	S-14 : 38600-122800	61	45	16
5.	Stenographer (H.G.)	S-15 : 41800-132300	11	05	06
6.	Stenographer (L.G)	S-14 : 38600-122800	19	02	17
7.	Junior/ Sec. Engineer (Civil/ Electric)	S-13 : 35400-112400 S-15 : 41800-132300	18	07	11
8.	Sr. Tech. Asstt.	S-15 : 41800-132300 S-14 : 38600-122800	02	00	02
9.	Chief Artist	S-14 : 38600-122800	01	00	01
10.	Movie Cameraman	S-14 : 38600-122800	01	00	01
11.	Sr.Res.Asstt.	S-15 : 41800-132300 S-16 : 44900-142400	144	56	88
12.	Veterinary Officer	S-15 : 41800-132300 S-14 : 38600-122800	03	00	03
	Total Group B		302	147	155



Group C					
1	Sr.Clerk	S-8 : 25500-81100	160	127	33
2	Steno Typist	S-8 : 25500-81100	11	04	07
3	Clerk-Cum-Typist	S-6 : 19900-63200	236	151	85
4	Technical Asstt.(Lib)	S-10 : 29200-92300	01	01	00
5	Chief-Cataloguer	S-10 : 29200-92300	10	04	06
6	Issue Asstt.	S-7 : 21700-69100	09	05	04
7	Draughtsman	S-10 : 29200-92300 S-13 : 35400-112400	07	04	03
8	Tracer	S-7 : 21700-69100 S-8 : 25500-81100	07	02	05
9	Sr. Mechanic	S-8 : 25500-81100	04	00	04
10	Jr. Mechanic	S-6 : 19900-63200	03	02	01
11	Technical Asstt.	S-10 : 29200-92300	04	03	01
12	Mechanical Supervisor	S-10 : 29200-92300	01	01	00
13	Foremen Supervisor	S-10 : 29200-92300	02	01	01
14	Farm Mechanic	S-8 : 25500-81100	04	00	04
15	Fitter-Cum-Mechanic Turner	S-8 : 25500-81100	01	00	01
16	Fitter	S-8 : 25500-81100	06	04	02
17	Turner	S-8 : 25500-81100	03	03	00
18	Machinist	S-8 : 25500-81100	01	00	01
19	Foundry man	S-8 : 25500-81100	03	00	03
20	Audio Visual Operator	S-8 : 25500-81100	04	01	03
21	Carpenter	S-8 : 25500-81100 S-7 : 21700-69100	12	06	06
22	Welder	S-8 : 25500-81100	03	02	01
23	Wireman	S-8 : 25500-81100 S-6 : 19900-63200	24	09	15
24	Compounder (Medical)	S-10 : 29200-92300	02	01	01
25	Compounder (Vet.)	S-8 : 25500-81100	04	03	01
26	Nurse	S-13 : 35400-112400	01	01	00
27	Asstt. Hostel Supervisor	S-13 : 35400-112400	01	00	01
28	Photographer	S-10 : 29200-92300	05	00	05
29	Artist-Cum- Photographer	S-10 : 29200-92300	04	04	00
30	Dark Room Asstt.	S-8 : 25500-81100	02	00	02
31	Asstt. Security Officer	S-10 : 29200-92300	03	01	02
32	Plumber	S-6 : 19900-63200	06	02	04
33	Maistry	S-6 : 19900-63200	12	05	07
34	Surveyer	S-8 : 25500-81100	01	01	00
35	Pump Operator	S-6 : 19900-63200	03	02	01
36	Telephone Operator	S-7 : 21700-69100	02	01	01



37	Compositor	S-7 : 21700-69100	02	01	01
38	Printer	S-7 : 21700-69100	01	00	01
39	Sr.Artist Technical Asstt.	S-10 : 29200-92300	01	01	00
40	Blacksmith	S-8 : 25500-81100 S-7 : 21700-69100	06	02	04
41	Electrician	S-8 : 25500-81100	06	01	05
42	Jeep Driver	S-6 : 19900-63200	73	41	32
43	Tractor Driver	S-7 : 21700-69100	17	06	11
44	Mechanic-Cum Electrician	S-8 : 25500-81100	01	01	00
45	Computer Operator	S-13 : 35400-112400	03	01	02
46	Agril. Asstt.	S-8 : 25500-81100 S-10 : 29200-92300	616	462	154
47	Live-Stock Supervisor	S-8 : 25500-81100	05	05	00
48	Senior Storeskeeper	S-8 : 25500-81100	01	00	01
49	Jr.Vet. Officer	S-15 : 41800-132300 S-10 : 29200-92300	02	01	01
50	Jr.Res.Asstt.	S-13 : 35400-112400	193	55	138
51	Comp. Hardware Machanic/ Asstt. Comp.	S-8 : 25500-81100	01	00	01
	Group C		1492	927	565
Group D					
1	Laboratory Attendent	S-6 : 19900-112400 S-1 : 15000-47600	47	30	17
2	Library Attendent	S-6 : 19900-112400 S-1 : 15000-47600	08	04	04
3	Counter	S-3 : 16600-52400	53	21	32
4	Massion	S-3 : 16600-52400	04	00	04
5	Mali	S-5 : 18000-56900 S-1 : 15000-47600	56	27	29
6	Security Guard	S-1 : 15000-47600	17	06	11
7	Lab. Boy	S-1 : 15000-47600	04	00	04
8	Peon	S-1 : 15000-47600	183	89	94
9	Watchman	S-1 : 15000-47600	161	66	95
10	Labor	S-1 : 15000-47600	1187	618	569
11	Sweeper	S-1 : 15000-47600	24	23	01
	Group D		1744	884	860
	Total (A+B+C+D)		4473	2460	2013



8. Campus Development Activities

Works in progress at Rahuri region for the year 2021-2022

Sr.No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of Girls hostel for UG students at C.C. MPKV, Rahuri	State plan	57890175.00
2	Construction of Girls hostel for PG students at C.C. MPKV, Rahuri	State plan	54045600.00
3	Providing and laying 800 dia HDPE Pipe line, 800 & 450 mm dia PSC Pipe line, 315 mm dia PVC pipe, Balancing Chamber for Lift Irrigation scheme for C.C. Rahuri	RKVY	102797821.00
4	Construction of intake well, intake pipeline, jackwell with pumphouse and footbridge for lift irrigation scheme for Central Campus at MPKV, Rahuri	RKVY	15206009.00
5	Construction of various building for organic farming project at C. C., Rahuri	State plan	11089400.00
6	Providing G-1 pipeline for drinking water supply to Vivekananda Colony at C.C. Rahuri	university receipt	266652.00
7	Providing electric connection to 75 HP pump set at farm pond of cotton improvement project at C.C. Rahuri	Product testing	256350.00
8	Construction of buildings and infrastructure facilities for Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon, Tal- Jamkhed, Dist- Ahmednagar	State plan	242789000.00
9	Providing internal electrification to the college building, hostel, library, Amenity building, Gymkhana, Guest house and Residential Quarters at Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon, Tal- Jamkhed, Dist- Ahmednagar	State plan	13461093.00
10	External Electrification Providing electric Supply, Street lights and other amenities at Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon, Tal- Jamkhed, Dist- Ahmednagar	State plan	9876041.00
11	Installation of solar system cooking system for PG boys hostel Mess at Central campus MPKV, Rahuri girls hostel mess at College of Agriculture, Pune and boys hostel at College of Agriculture, Dhule	ICAR-SAU	9265478.00



Works in progress at Pune region for the year 2021-2022

Sr. No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of Auditorium at College of Agriculture, Pune	State plan	63154800.00
2	Construction of Girls hostel for UG students for College of Agriculture, Pune	State plan	62649710.00
3	Desalting and excavation for well at Dairy farm at A.C., Pune	University receipt	296877.00

Works in progress at Dhule region for the year 2021-2022

Sr. No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of Girls hostel for UG students for College of Agriculture, Dhule	State plan	58441510.00
2	Construction of Auditorium at College of Agriculture, Dhule	State plan	52067200.00
3	Renovation of drainage, line overhead and ground water tank at A.C., Dhule	M&R	5616996.00

Works in progress at Kolhapur region for the year 2021-2022

Sr. No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of Girls hostel for UG students for College of Agriculture, Kolhapur	State plan	62649710.00
2	Construction of Auditorium at College of Agriculture, Kolhapur	State plan	56137600.00
3	Construction of farmers training center for Dairy Science at RCSI College of Agriculture, Kolhapur	Collector office, Kolhapur	4383570.00
4	Providing and fixing reflux valve, sluice valve, air valve & PVC Pipe from existing open well no 4 & 5 in agronomy farm at RCSI College of Agriculture, Kolhapur	Revolving fund Agronomy	219035.00
5	Construction of rat proof godown at NARP, Shenda Park, Kolhapur	ICAR-SAU	2657744.00
6	Construction of halt covered threshing yard at NARP, Shenda Park, Kolhapur	ICAR-SAU	2064473.00
7	Providing MS structural Steel work for OH water tank support and sintex water tank for boys hostel WC block at ATS, Digras, Dist. Sangli	University receipt	257960.00
8	Providing area lighting for administrative building at RCSI College of Agriculture, Kolhapur	ICAR-SAU	203528.00



9	Providing open well submersible pump set 12.5 HP and accessories, extension of 110 mm dia PVC pipe form quarter behind boys hostel to existing pipeline from dairy to main building at RSCM College of Agriculture, Kolhapur	Product testing	133330.00
10	Construction of building and infrastrucure facilities for Krantisinh Nana Patil Government College of Food Technology at Peth, Tal. Walwa, Dist. Sangli	State plan	381517281.00

Works completed at Rahuri region for the year 2021-2022

Sr.No	Name of work	Fund head	Estimeted cost (Rs.)
1	STBT to internal roads from Phule Statue 0.00 to 135.00 m chainage towards ladies Gym at Central Campus, MPKV, Rahuri	University Receipt	252323.00
2	STBT to internal roads from 135.00 m chainage from Phule Statue to 270.00 m chainage towards ladies gym at Central Campus, MPKV, Rahuri	University Receipt	252323.00
3	STBT to internal roads from 270.00 m chainage from Phule Statue to 405.00 m chainage towards ladies gym at Central Campus, MPKV, Rahuri	University Receipt	252323.00
4	STBT to internal roads from 405.00 m chainage from Phule Statue to 455.00 m chainage towards ladies gym and VIP internal roads at Central Campus, MPKV, Rahuri	University Receipt	252323.00
5	Providing and laying 90 mm into (6 kg /sq.m.) PVC pipeline for different fruit crops under horticulturist AICRP on AZF in B Block at C.C. Rahuri	Revolving fund horticulture	184839.00
6	Desilting and construction of well for organic farm at C.C. Rahuri	Organic Project	163663.00
7	Providing & laying 160 mm dia 6 Kg/sqm with fixtures from A block farm pond to Digras Tekadi at C.C. Rahuri	University Receipt	155377.00
8	Repairs & renovation of GIS and remote sensing laboratory of IWM Dept. in Post Graduate Institute at C.C. Rahuri	University Receipt	135180.00
9	Repair and renovation to residential quarters number G-68 G-5 SQ 36 and SQ 50 in Dnyaneshwar / Pujara Colony at CC, Rahuri	University receipt	132784.00
10	Construction of verandah at Senior Vegetable Breeder unit at C.C., Rahuri	Product testing	239056.00
11	Internal electrification to UG girls hostel at C.C., Rahuri	ICAR-SAU	833107.00
12	External electrification to UG girls hostel at CC, Rahuri	ICAR-SAU	500000.00



13	Providing solar hot water system for UG girls hostel at C.C., Rahuri	ICAR-SAU	410942.00
14	Providing transformer and DP structure for electric supply to 75 HP pump set at farm pond of STRU project at C.C., Rahuri	Revolving fund STRU	283659.00
15	Internal electrification work of training hall, store-1 goat shed, poultry shed, cattle shed, store-2 and office for organic farm project at C.C. MPKV, Rahuri	State plan organic project	248564.00
16	Renovation of electrification to soil testing laboratory of Soil Science and Agril. Chemistry Dept. at C.C., Rahuri	Product testing	240156.00
17	External electrification work of training hall, store-1 Goat shed, poultry shed, cattle shed, store-2 and office for organic farm project at C.C. MPKV, Rahuri	State plan organic project	232917.00
18	Providing XLPE Armoured cable to the Ph.D. girls hostel at C.C., Rahuri	PGI Student Council	128436.00
19	Repairs and maintenance of projector and its Allied HDMI/VGA cable work at Director of Extension Education meeting hall at C.C., MPKV, Rahuri	Institutional Charges	84128.00
20	Provision of inverter for the meeting hall of Director of Extension Education at C.C., Rahuri	Institutional Charges	83774.00
21	Providing and fixing chain link fencing with top Y shaped barbed wire near main gate at Agriculture Technical School, Puntamba, Dist. Ahmednagar	Revolving fund	257034.00
22	Providing and fixing chain link fencing with Top Y shaped barbad wire near Asha Kendra side at Agriculture Technical School, Puntamba, Dist. Ahmednagar	Revolving fund	256985.00
23	STBT for pothole filling and repairs to internal roads at Central Campus, MPKV, Rahuri	University receipt	252323.00

Works completed at Pune region for the year 2021-2022

Sr.No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of Girls hostel for College of Agriculture, Pune	ICAR-SAU	20593708.00
2	Renovation of Hon. Vice President office at MCAER, Pune	MCAER Fund	828603.00
3	Providing three track aluminum windows and solid core flush door shutters for boys hostel room no. 1 to 10 ATS, Solapur	University Receipt Hyderabad highway	291066.00
4	Providing three track aluminum windows and solid core flush door shutters for boys hostel room no. 11 to 20 ATS, Solapur	University receipt	291066.00
5	Internal electrification work to the Girls hostel at A.C., Pune	ICAR-SAU	891012.00
6	External electrification work to the Girls hostel at A.C., Pune	ICAR-SAU	759420.00

Works completed at Dhule region for the year 2021-2022

Sr. No.	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of building and infrastructure facilities for Agriculture College, Muktainagar, Dist. Jalgaon	State plan	209572000.00
2	Providing Internal Electrification to the Office building, Hostels, Library, Amenity building, Gymkhana, Guest house, and Residential quarters at Agriculture College, Muktainagar, Dist. Jalgaon	State plan	14835836.00
3	Providing External Electrification and street lights to the office building, hostels, library, amenity building, gymkhana, guest house, and residential quarters at Agriculture College, Muktainagar, Dist. Jalgaon	State plan	12506571.00
4	Supplying, Installation, Testing and Commissioning of automatic electric traction passenger lift at Administrative building at College of Agriculture, Muktainagar, Dist. Jalgaon. (M.S.)	State plan	1485619.00
5	Supplying and erecting electrical material for LT connection for New building at College of Agriculture, Muktainagar	State plan Muktainagar	152010.00
6	Providing on grid roof top solar energy systems for Administrative building, boys hostel and girls hostel at College of Agriculture, Muktainagar		1651669.00



Works completed at Kolhapur region for the year 2021-2022

Sr. No	Name of work	Fund head	Estimated cost (Rs.)
1	Providing external water supply line from existing ground storage tank in front of PGI Girls Hostel to New Girls hostel under CSR fund at RSCM College of Agriculture, Kolhapur	Product testing	102301.00
2	Extension of 110 mm dia PVC pipe from quarry behind boys hostel to existing pipeline from dairy to main building at RSCM College of Agriculture, Kolhapur	Product testing	176768.00
3	Providing UCR Masonary retaining wall along agricultural Farm of Pathology Department at RSCM College of Agriculture, Kolhapur	Product testing	249021.00
4	Providing structural Steel work and colour coated sheet roofing along EPN lab and entomology main building at RSCM College of Agriculture, Kolhapur	Product testing	253707.00
5	Providing interlocking paving along entomology main building EPN lab at RSCM College of Agriculture, Kolhapur	Product testing	234751.00
6	Providing structural steel work for main arch and Ms Gate for EPN lab at RSCM College of Agriculture, Kolhapur	Product testing	210287.00
7	Providing CPVC water supply pipeline and outlets for Gymkhana ground at RSCM College of Agriculture, Kolhapur	Student council	114892.00
8	Construction of verandah of lecture hall and laboratories of Agriculture Technical School at Kasba Bawada, Kolhapur	University receipt	249865.00
9	Construction of structural steel shed for electric motor at Agriculture Technical School at Kasba Bawada, Kolhapur	University receipt	207303.00
10	Providing and laying paving block in front of the office of maize project at Kasba Bawada, Dist. Kolhapur	Product testing	257134.00
11	Desilting, dewatering, deepening of Zillah Parishad open well on Jayanti nalla and extension of 160 mm dia G-1 Pipe to pump house of ZARS, NARP, Shenda Park, Kolhapur	University receipt	258527.00
12	Desilting, deepening of existing open well on Jayanti nalla at Agriculture farm at ZARS, NARP, Shenda Park, Kolhapur	University receipt	255959.00
13	Desilting to well at Agricultural Research Station, Radhanagari, Dist. Kolhapur	Product testing	265436.00
14	Renovation to toilet block for boys hostel bathrooms at ATS, Digras, Dist. Sangli	University receipt	258272.00
15	Construction of RCC compound wall for girls hostel at ATS, Digras, Dist. Sangli	Strengthening package	258203.00

9. The Financial Status of Universities

During the Financial Year 2021-2022 the grants of Rs. 578,26,31 thousands have been received from various Sources (Govt. Maha./GOI/ICAR & other). The expenditure of Rs.510,15,97 thousands has been incurred. During the financial year 2021-2022 the abstract of received grants and expenditure incurred by the University are given below.

Sr. No	Head of Account	Sanctioned / Released Grants (Rs. Thousand)	Expenditure (Rs. Thousand)
1.	State Govt. 01- Crop. Husb. (Non-Plan Scheme) (24150025)		
	1) (04) Pension Payment	1985000	1937250
	2) (31) Asstt. Grants (Non- Salary)	43453	43453
	3) (36) Asstt. Grants (Salary)	2365975	1816859
	Total Rs.	4394428	3797562
2.	State Govt. 03 – Ani. Husb. (Non-Plan Scheme) (24150197)		
	1) (31) Asstt. Grants (Salary)	45125	35308
	2) (36) Asstt. Grants (Non- Salary)	477	476
	Total Rs.	45602	35784
	(Non-Plan 1+2) Total Rs.	4440030	3833346
3.	State Govt. 01- Crop.Husb. (Plan Scheme) (24150072)		
	1) (31) Asstt. Grants (Non – Salary)	23720	23720
	2) (35) Asstt. Grants for Capital Creations.	187249	187249
	3) (36) Asstt. Grants (Salary)	47500	47500
	Total Rs.	258469	258469
4.	State 25% Share (ICAR 75:25) 24151086	25000	25000
5.	College of Agriculture, Nandurbar (24158291)	0	36400
6.	D.C.P.S. State Govt. Share (24151021)	66832	66832
7.	ICAR (75:25) Schemes 75 % Share / Govt. of India etc. Grant -in-aid Schemes	562100	506648
8.	University Revenue Receipts * O.B. 7,51,68 Thousand	430200	411302
	Grand Total (1 to 8)	5782631	5101597

University Revenue Receipts Financial : The Revenue Receipts generated by the University during F.Y. 2021-2022 is Rs. 25.51 Crore (Previous year C.B. Rs. 7.51 Crore + Revolving Fund Withdrawn Rs. 10.00 Crore + Current year URR Rs. 25.51 Crore = Total URR Rs. 43.02 Crore). Out of this Rs. 41.13 Crore was allotted to various Schemes for Contingency expenditure for various office/ farm activities/ New Revolving Funds/ Capital assets form University Revenue Receipts.





Mahatma Phule Krishi Vidyapeeth

Rahuri - 413 722, Dist. Ahmednagar (Maharashtra)
www.mpkv.ac.in