



IAUA



NEWS

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Events and Achievements

Universities

ANAND AGRICULTURAL UNIVERSITY, ANAND

INTERNATIONAL WEBINAR ON DAIRY MICROBIOLOGY

Dairy Microbiology Department, SMC College of Dairy Science, AAU, Anand organized an International Webinar on 'Functional Fermented Foods- Current Status and Future Prospects' in association with its Alumni Association, Gujarat State Biotechnology Mission (GSBTM) and SASNET-Fermented Foods on 15th Dec 2020. The programme aimed at knowledge exchange and knowledge dissemination in the area of Functional Fermented Foods for the benefits of all stakeholders. Out of 680 delegates registered for the webinar 65% were students, 30% from academia, 3% industry, and 2% consultants. Expert speakers in the webinar were Dr N. P. Shah, Professor of Food Science, University of Hong Kong; Dr Suja Senan, Associate Principal Scientist, Nutrition Division of Pepsico, Chicago; Dr Anand Bhadalkar, Joint Director, Business Development Gujarat State Biotechnology Mission; and Mr Pravin Singh, Key Account Manager DSM, Food Specialties Ltd., New Delhi.



Participants attending the webinar

ADVANCES IN MICRO-IRRIGATION AND FERTIGATION

A one-day online seminar on 'Advances in micro-irrigation and fertigation for improving water use efficiency and crop productivity' was jointly organized by College of Agriculture, AAU, Vaso and NAHEP - CAAST, AAU, Anand on 18 Dec 2020. In the seminar one key note lecture and four different lectures based on the theme of the seminar, were delivered by the distinguished personalities. The inaugural event of the seminar was presided by Dr R. V. Vyas, Vice-Chancellor, Anand Agricultural University, Anand and Dr R. C. Agrawal, DDG (Education), National Director-NAHEP, ICAR, New Delhi.



Vice-Chancellor attending inaugural function

SEMINAR ON PROTECTED CULTIVATION

A one-day online seminar on 'Protected Cultivation for enhancing resource use efficiency and



Participants attending seminar

productivity of horticultural crops' was jointly organized by College of Agriculture, AAU, Vaso and NAHEP - CAAST, AAU, Anand on 22 Dec 2020. One key note lecture and three different lectures, based on the theme of the seminar, were delivered by the distinguished personalities.

The online seminar was inaugurated with welcome address. Dr R. S. Pundir, Professor & PI- NAHEP, AAU, Anand welcomed all dignitaries and illustrated about the functions of NAHEP. Dr Y. M. Shukla, Principal and Unit Head, College of Agriculture, AAU, Vaso, gave an introductory remark related to protected cultivation in India, and also welcomed the dignitaries and participants for their participation in the seminar. The inaugural session ended with the vote of thanks delivered by the organizing secretary Dr. Gautam R. Patel, Associate Professor and Head, College of Agriculture, AAU, Vaso.

DD NEWS: PM Modi – Imandar Niti Aur Niyat Se Kisan Hit Me Liye Faisale

Dr R.V. Vyas, Vice-Chancellor, Anand Agricultural University acted as a panelist of agricultural sector in a DD News special programme telecast worldwide on 15 Dec 2020. During the programme, Dr Vyas briefed about latest agricultural developments in Gujarat State also described success stories of contract farming in crops like potato, and cash and medicinal crops benefitting farmers as per scheme for contract farming in Gujarat, which has been launched since 30 March 2005 by the Chief Minister of Gujarat State, Shri Narendra Bhai Modi.

VISIT OF HIGH COMMISSIONER, UGANDA

Ms Grace Akello, High Commissioner, Uganda along with Ms Sophie Birungi, First Secretary and Ms Jane Francisca



Vice Chancellor with Delegates

Emiru, Administrative Attache (New Delhi Embassy) visited Anand Agricultural University (AAU) on 22 Oct 2020.

The delegation had an interactive meeting with the Vice-Chancellor of AAU, Dr R. V. Vyas and Associate Director of Research, Dr M. K. Jhala. Dr Vyas highlighted the main activities of AAU in Agricultural Education, Research and Extension. A few of the noteworthy achievements and contribution of AAU for farmers' welfare were also informed. Activities under Biofertilizer project, Pesticide Residue Laboratory, Plant Tissue Culture, Vidya Dairy, Animal Genetics and Biotechnology were discussed in details. Ms Grace explained the scenario of Uganda in context to need for upgrading their local cattle breeds for more production, improvement in veterinary and dairy education, utilization of unused land for agricultural production, and especially showed interest in organic farming. Possible areas of future cooperation were also discussed.

DAIRY VIGYAN KENDRA DEMONSTRATION

There were total 956 Demonstration programmes on 'Chelated Mineral Mixture Powder' organized by Dairy Vigyan Kendra, Vejalpur, SMC

College of Dairy Science, AAU, Anand from Oct 2020 to Dec 2020

in 78 villages of 11 talukas of the operational



Scientists of DVK providing input kits to farmers

area of DVK. Dairy farmers (956) of Panchmahals District and Mahisagar District of Gujarat state were benefited.

CH. SARWAN KUMAR H. P. KRISHI VISHVAVIDYALAYA, PALAMPUR

RESEARCH PROJECT ON GADDI DOGS

Palampur, 21 September 2020: 'Gaddi' dog also known as 'Indian Panther Hound' due to its fighting capability with snow leopards, is a breed of Himalayan dogs



A Gaddi dog with flock

named after the nomadic Gaddi shepherds who use to rear them. It has rightly been pointed out by Prime Minister Shri Narendra Modi Ji in 'Man Ki Baat' programme as 'Himachali Hound' with an appeal to citizens of India to adopt our indigenous breeds of dogs. With the decreasing trend of nomadic lifestyle, the population of Gaddi dogs is decreasing at an alarming rate with the result that it has become difficult to find the purebred Gaddi dogs in the pockets of Western Himalayas. Under the able guidance and initiation of Prof. H.K. Chaudhary, Vice-Chancellor, CSKHPKV, Palampur, a research and conservation programme funded by the State Government of Himachal Pradesh to scientifically breed and conserve the pure germplasm of this prestigious breed of the state besides phenotypic and molecular characterization of the Gaddi dogs available with shepherds has been initiated. The work is being carried out at Dr GC Negi College of Veterinary and Animal Sciences, CSKHPKV, Palampur. This project is expected to help in the documentation of phenotypic and molecular characterization of Gaddi dogs which has not been accomplished so far. It will also help in maintaining minimum breedable population of this prestigious genetic resource of the state, and serve as a center for

conservation of pure bloodline of the native breed of Gaddi dogs.

FUTURE PLAN: UNIVERSITY PROPOSES TO DEVELOP A NATIONAL FACILITY FOR DH BREEDING IN WHEAT

Palampur, 28 September 2020: The CSK HPAU will enhance the speed and precision of various crop improvement programmes for diverse farming communities of North- West Himalayas.

The Vice-Chancellor, who was heading twin departments of Genetics & Plant Breeding and Agricultural Biotechnology before his appointment to the current position, told that scientific innovations and exemplary research work at internationally



Him Pratham: Doubled Haploid wheat variety



Prof. HK Chaudhary demonstrating cytogenetics preparations

acclaimed High-tech Molecular Cytogenetics and Tissue Culture Lab during his leadership, invented Chromosome Elimination Mediated Wide Hybridization Technique following wheat and *Imperata cylindrica* System leading to Doubled Haploidy (DH) Breeding. This work opened new vistas by excessively shortening the breeding cycle and actually accelerated the varietal development programmes of bread and durum wheat. The University has been able to set an example by developing and releasing Him Pratham the first DH wheat variety of the country.

Prof. Chaudhary informed that many institutes of the country are harvesting the advantage of this facility at his University for accelerating varietal development programmes and also for developing gene mapping populations in the shortest possible time. This High- tech Lab has also pioneered in establishing for the first time molecular cytogenetics facility with the support

of Ministry of Science and Technology, Government of India for physical mapping of targeted genes introgressed in various crop species by using novel tools like GISH and FISH for enhancing precision of selection of desired recombinants in an accelerated manner. Combination of DH Breeding and Molecular Cytogenetics techniques has opened new horizon in the sphere of Speed and Precision breeding for the improvement of targeted crop in the shortest possible time.

Prof. H. K. Chaudhary, Vice-Chancellor, informed that massive efforts are afoot in this Lab to develop wheat varieties associated with high profile drought and



To develop climate resilient wheat varieties

disease resistance (yellow and brown rusts) for rainfed agriculture and enhance the productivity and quality level by utilizing Himalayan old wheat genetic resources and the novel plant breeding and biotechnological approaches in time-bound manner.

ICAR ACCREDITS UNIVERSITY WITH 'A' GRADE

Palampur, 12 Dec 2020: The Indian Council of Agricultural Research (ICAR) has accredited CSK Himachal Pradesh Agricultural University with A grade.

According to Prof. H.K. Chaudhary, Vice-Chancellor, the fresh accreditation till March 2023 will improve the prestige and recognition of this hill farm University. He said that the faculty and non-teaching staff deserve appreciation for putting in hard work to fulfil the mandate in academics, research and extension activities. The Vice-Chancellor expressed his gratitude to the Governor of Himachal Pradesh and Chancellor of the University Shri Bandaru Dattatreya for his incessant guidance and encouragement along with generous support of the Government of Himachal Pradesh under the dynamic and visionary leadership of Chief Minister Shri Jai

Ram Thakur. He also thanked the ICAR and other funding agencies for helping the University in maintaining consistency in its performance.

Prof. Chaudhary said that it will also help in attracting meritorious students not only from the country but also from rest of the world. The ICAR nominates foreign scholars and students from all over the country to the accredited institutions only.

GOLDEN JUBILEE FORAGE GARDEN INAUGURATED

'Golden Jubilee Forage Garden' was inaugurated at CSK Himachal Pradesh Agricultural University. While inaugurating the garden through virtual mode, Dr



View of forage Garden

T. Mohapatra, Director General, Indian Council of Agricultural Research (ICAR), asked all farm universities to develop fodder production development, forage seed production plans and fodder production based entrepreneurship in consultation with Indian Grassland and Fodder Research Institute (IGFRI), Jhansi.

Speaking as a Guest of Honour Prof H. K. Chaudhary, Vice-Chancellor, expressed his gratitude to the ICAR for planning forage gardens in farm universities to commemorate golden jubilee year of the 'All India Coordinated Research Project on Forage Crops and Utilization (AICRP-FCU)', which was established in 1970. The Vice-Chancellor said that the forage garden will certainly help farmers, students and other stakeholders to get them acquainted with various forage crops, their improved varieties, production and protection technologies for further utilization at their end according to the needs and requirements.

The Vice-Chancellor said that this centre has developed high yielding 18 varieties of different fodder crops, grasses and fodder legumes. Prof Chaudhary said that the center has also its

strength in the production of forage seed and root slips having wider adaptability. The forage varieties and technologies developed by the centre have also found their place in J&K, Uttarakhand, Punjab and North East part of the country. AICRP (Forage Crops and Utilisation) Palampur centre was awarded the "Best Centre Award" during the year 2017 for its contribution towards Forage Resources Development in Himachal Pradesh.

Dr T. R. Sharma, Deputy Director General, ICAR, expressed his happiness for scientifically designing the Golden Jubilee Forage Gardens. Dr A. K. Roy, Project Coordinator and other scientists associated with the project also expressed their views.

ONE DISTRICT, ONE MEDICINAL PLANT

Palampur, 07 Nov 2020: Prof. H. K. Chaudhary, Vice-Chancellor said that this University will try to popularize the concept of One District, One Medicinal Plant, beginning with



Prof. H. K. Chaudhary presenting a compendium of sea buckthorn to Dr. J. L. N. Shastri

Krishi Vigyan Kendras situated in different districts of the State. He said that the University in collaboration with other stakeholders will submit a comprehensive proposal on medicinal plants to the Board to propel research and conservation work on these valuable plants. He said that the University will also submit a roadmap on sea buckthorn development in high altitude Himalayas. Even the Prime Minister has emphasized the importance of sea buckthorn.

Dr J. L. N. Shastri, Chief Executive Officer, NMPB, assured of extending all possible support to the University in carrying out these projects. He emphasized the need to involve local small entrepreneurs.

G.B. PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANTNAGAR

WEBINAR ORGANIZED ON SUSTAINABLE FASHION

College of Home Science organized a webinar on 'Sustainable Fashion' under Entrepreneurship Development Programme on 2 Nov 2020. Mrs Purvi Doshi, International Designer and Expert welcomed by Dr Manisha Gehlot, Professor, Clothing and Textile. Dr Gehlot said that Mrs Doshi uses fabric in her clothes that does not harm nature. Describing her success, Mrs Doshi said that environment and nature are very important for public life, who dyes her clothes with natural dye. Smt Doshi is the first woman designer honoured internationally for Indian apparel, embroidery and traditional art at Lakme Fashion Week, New York Fashion, etc. and also to make Kala Cotton of Gujarat internationally acclaimed. In the programme, Dr R.S. Jadoun, Director, Placement and Counselling; Dr Alka Goyal, Dean Home Science; Dr Seema Quatra, Programme Coordinator; Dr Shahnaz Jahan, Head, Department of Clothing and Textiles; Dr Shefali Massey, Dr Neetu Dobhal, Dr. Divya Singh, Dr Anupama Pandey were present.

WEBINARS ON ENTREPRENEURSHIP DEVELOPMENT

1. Under ICAR SC Subplan on Entrepreneurship Development, webinars were conducted by the Department of Home Science Extension under the Directorate of Placement and Counselling in association with College placement cell committee to enhance the skills and creativity among students and develop an entrepreneurial mindset. Dr R.S. Jadon, Director Placement and Counselling, and Dr Alka Goel, Dean, College of Home Science have been a constant gearing force for the conduct of the webinars. Following four webinars were organized in Nov 2020 on different topics:

i. *Evolving as an Independent Media Broadcaster* on 02 Nov 2020 by Ms Kanika

Gupta, Radio Broadcaster and Producer with Radio Mirchi, Mumbai;

ii. *Project Report Writing Skills and Project Evaluation* on 07 Nov 2020;

iii. *Article Writing for Newspaper and Magazines*; and

iv. *Advertising for Promotion of Products/Services and Ideas* on 10 Nov 2020 by Dr Anup P. Upadhyay, Faculty IIFM, Bhopal, Ministry of Environment Forest and Climate Change, Government of India.

2. A series of webinars were organized during Dec 2020 for Home Science Students with financial support from ICAR (SC- Sub-Plan). The eminent speakers were:

- Dr Renuka Salunke, Professor and Head Family Resource Management, College of Community Science, University of Agricultural Sciences, Dharwad, Karnataka on the topic 'Entrepreneurship Development and Management';
- Ms Komal Malhotra, entrepreneur, New Delhi on the topic 'Scope of Entrepreneurial ventures at Grassroot Level';
- Dr Nidhi Gupta, Associate Professor, Department of Family Resource Management, S. S. M. Patel College of Home Science Mota Bazar, Vallabh Vidyanagar, Anand on the topic 'Career option in design'; and
- Mr Saurabh, Software Development Engineer, Amazon, Bengaluru on the topic 'Develop Your Career Using Social Network'.

TWO-DAY INTERNATIONAL WEBINAR ORGANIZED

A two-day international webinar on 'Resent Approaches in Plant Biology: Paving the Way for Green Agriculture' was organized by the Department of Biology of the College of Basic Science and Humanities of the university. On the first day, Vice-President, Chem Tech Biotech, Maryland, USA, Dr Ashok Dhawan, spoke about the scenario of India and the world in the sustainable development of sugarcane, and he focused on research related to increasing sugar content in sugarcane. On the

second day, Dr Shilpi Paul, Senior Scientist, DST, New Delhi, informed about the possibilities of green agriculture and research work in the country. Dr Shubhapriya Gupta, Kwazulu Natal University, South Africa, told the participants about the research being conducted on the role of bio-growers in green agriculture. On this occasion, the Programme Coordinator and Head of Department, Dr Preeti Chaturvedi and Director Extension Education, Dr A.K. Sharma, also expressed their views. A total of 175 participants from the country and abroad participated in this seminar.

ONLINE CERTIFICATE COURSE ON 'COMPUTER AIDED TEXTILE DESIGNING'

Centre of Certificate and Diploma Course, G.B. Pant University of Agriculture and Technology, Pantnagar, launched Online Certificate Course of three months duration on computer aided textile designing on 25 Oct 2020. This course is offered in Department of Clothing and Textile, College of Home Science. The course focuses on aligning learners towards gaining software-based expertise in designing. A total of 25 participants faculty from other Institution and UG, PG, PhD students from different states of India like Punjab, UP, Rajasthan, Delhi and Karnataka enrolled in this course. Interaction with industry expert is also being organized under the online certificate course to provide exposure to the participants on recent trends in textile designing.

ENTREPRENEURSHIP DEVELOPMENT PROGRAMME ON MUSHROOM PRODUCTION

A two-week online training programme on mushroom production technology was organized in the College of Agriculture under the entrepreneurship development programme for the agricultural students, with the financial support of the Indian Council of Agricultural Research (ICAR) and Directorate of Placement and Counselling of the university. Director, Directorate of Mushroom Research of ICAR,

Solan, Dr. V.P. Sharma inaugurated the programme on 7 Oct 2020. About 90 students of Agriculture College were present on the occasion.

EMPLOYMENT TRAINING PROGRAMME ON MUSHROOM PRODUCTION

A four-day employment skills training programme on the 'Mushroom production' by



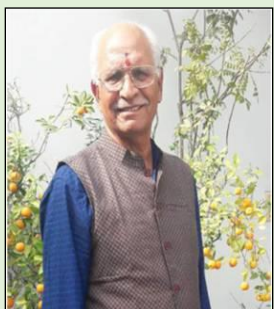
Scientists addressing trainees.

Training Unit of the Directorate of Extension Education of the university, was concluded on 29 Oct 2020 as 1st offline programme after COVID-19. At the closing ceremony, Joint Director, Mushroom Production and Training Center, Dr K.P.S. Kushwaha informed the trainees about nutritional and medicinal value, quality standard of the mushroom. Trainees (19) from Uttarakhand, Uttar Pradesh and Madhya Pradesh participated in the programme.

ONLINE TRAINING CONDUCTED ON PROTECTED CULTIVATION OF HORTICULTURAL CROPS

A two-week online training programme on 'Protected cultivation of horticultural crops' was inaugurated on 10 Nov 2020 in the College of Agriculture under the entrepreneurship development programme with the financial support of the Indian Council of Agricultural Research (ICAR) and Directorate of Placement and Counselling of the university.

Chief Guest of the programme, Former Director, Defence Research and Development Organization, Padma Shri Dr Brahma Singh, told that protected farming is the future of agriculture due to the demand of fresh fruits and vegetables throughout the year owing to the changing climate. He also informed about



Padma Shri Dr.
Brahma Singh

soilless farming along with protected farming. Vice-Chancellor, Dr Tej Partap said that protected horticulture is capable of making the cultivation beneficial to cultivators of small holdings in the state.

FARMERS TRAINING PROGRAMME ORGANIZED

Farmers training programme and animal health camps were



Dr A.S. Nain, Director Research is giving information farmers in the programme.

organized on 19 Dec 2020 at village Haripura Jabran of Bajpur and on 29 Dec 2020, at village Khamariya, Hayat Nagar under the 'All India Coordinated Research Project-Frieswal' funded by ICAR Central Institute for Research on Cattle (CIRC), Meerut. A total of 56 cattlemen participated in these camps and 18 animals were given health inspection and treatment.

FARMERS' TRAINING ORGANIZED ON WEED CONTROL UNDER SCHEDULED CASTE SUB-PLAN

Weed Research Scientists of the university provided trainings to farmers on weed control methods and problems in village Chakarpur, Bajpur on 15 Dec 2020 and in village Jagdishpur, Udham Singh Nagar on 18 Dec 2020. The programme was organized under the ICAR-Directorate of Weed Research for farmers of scheduled caste and other backward castes. District Agriculture Officer, Dr Abhay Saxena was the chief guest at the event. Senior Research Officer apprised farmers about the various methods of weed control. Dr S.P. Singh trained the farmers about various tools, proper quantity of herbicide, yield loss from weeds and spraying



Scientists informing farmers about weed control in village Chakarpur.

used for herbicide in *rabi* crops. In this programme, 50 farmers including Gram Panchayat, village head from village Chakarpur and 45 farmers from the village Jagdishpur were present. The Chief Guest distributed fertilizers, seeds, herbicides and spraying equipment and protection kits to the farmers.

ONLINE TRAINING PROGRAMME HELD ON MILK PRODUCTS

An online training programme on 'Processing and quality enhancement of milk products' was organized on 11 Dec 2020 for students under the sub-scheme funded by the Indian Council of Agricultural Research in the College of Veterinary and Animal Sciences of the university. Head, Department of Livestock Products Technology, Dr P. Prabhakaran, said that this programme will prove helpful as a capacity-building programme to develop entrepreneurship in students. Assistant Professor, Dr Anita, gave information on clean milk products, quality assessment, raw milk testing as well as method for good milk production. In the programme, Dean, College of Veterinary and Animal Sciences, Dr N.S. Jadon; Director, Placement and Counselling, Dr R.S. Jadon; Coordinator, Dr S.P. Singh and Assistant Professor, Dr Disha Pant were present.

ENTREPRENEURSHIP DEVELOPMENT PROGRAMME ORGANIZED FOR SCHEDULED CASTES STUDENTS

Two-week online training programme on commercial nursery production of horticultural crops started under the entrepreneurship development programme was conducted for Scheduled Caste students with the financial support of Indian Council of Agricultural Research and Directorate of Placement and Counselling. The programme was inaugurated by Defence Research Laboratory, Director of Defence Research Development Organization, Dr Sanjai K. Dwivedi. Dr Dwivedi expressed that instead of mixed nursery of different crops, production of special kind of fruits, vegetable and flower plants of nursery plants,

establishment of mother trees, improved varieties and new nursery growing media is needed. In the programme, Dean, College of Agriculture, Dr S.K. Kashyap and Director, Placement and Counselling, Dr R.S. Jadon also expressed their views and wished the students to set up their own enterprise by availing the benefits of training and thanked the Indian Council of Agricultural Research for the financial support.

ONLINE TRAINING PROGRAMME ORGANIZED ON MEAT PROCESSING AND QUALITY ENHANCEMENT

Ten-days training programme on 'Processing and quality enhancement of meat and its products for entrepreneurship development' was organized for Scheduled Caste students in College of Veterinary and Animal Sciences of the university under the sub-scheme funded by ICAR. Head, Department of Animal Products Technology, Dr P. Prabhakaran, said that this training will be helpful as a capacity building programme to develop entrepreneurship among the students. Technical information was given by Assistant Professor, Dr Anita and Dr Pranita Singh on the subject of quality assessment, quality enhancement and processing of various meat and its products. Dr Shiva Kumar, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, gave lecture to the students on the possibilities of developing entrepreneurship in the field of livestock products processing.

TWO-WEEK ONLINE TRAINING PROGRAMMES HELD

1. The two-week online training programme on protected cultivation of horticultural crops concluded on 10 Dec 2020 under the entrepreneurship development programme in the College of Agriculture with the financial support of Indian Council of Agricultural Research and Directorate of Placement and Counselling of the university. Protected farming and entrepreneurship related 27 lectures were organized in the programme. In this training, scientists related to protected

farming from across the country were present. A total of 35 students participated in this programme.

2. A two-week online training programme on 'Commercial nursery production of horticultural crops' was organized from 14-28 Dec 2020 in the College of Agriculture under the Entrepreneurship Development Programme with the financial support of Indian Council of Agricultural Research and Directorate of Placement and Counselling of the university. In this programme, 23 lectures related to nursery production and entrepreneurship were organized.

GANDHI AND SHASTRI JAYANTI CELEBRATED

The university celebrated Gandhi and Shastri Jayanti on 2 Oct 2020. In the morning, Vice-Chancellor, Dr Tej Partap, with Deans, Directors, officers, scientists, other employees and students garlanded the statues of Mohandas Karamchand Gandhiji and Lal Bahadur Shastriji in Gandhi Park and paid floral tributes. The lectures about the life and principles of the two great leaders of the nation were delivered by the guests and the audience was urged to follow the ideals of the two great leaders.



Vice-Chancellor, Dr Tej Partap, garlanding the statue of Gandhi at Gandhi Park.

CONVOCATION HELD IN VIRTUAL MODE

The 33rd convocation of the university was organized on 17 Nov 2020 in virtual mode. Governor of Uttarakhand and Chancellor of the university, Smt Baby Rani Maurya, was the chief guest of the



Vice-Chancellor, Dr Tej Partap, presenting report of the recent achievements of the university.

function who delivered convocation address through video recording. Vice-Chancellor, Dr Tej Partap, presented a report of the recent achievements of the university.

In this convocation, 1,891 undergraduate, postgraduate and Ph.D. degrees were given to the students pertaining to 2018-19 and 2019-20.

HOME SCIENCE GRADUATES EXCELLED IN ICAR-JRF EXAM



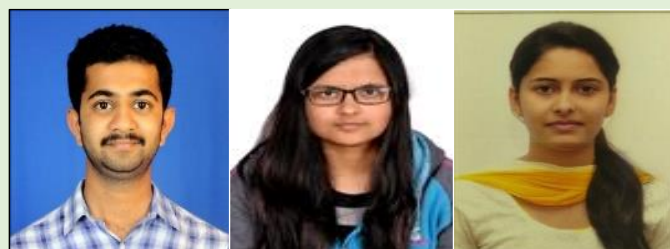
Swati Nautiyal

Shristi Joshi

Priyanka Kardam

In the Junior Research Fellowship (JRF) examination conducted by Indian Council of Agricultural Research (ICAR) New Delhi, students of College of Home Science of the university secured top positions. In JRF examination the students from all the agricultural Universities of India i.e. PAU, Ludhiana, CCSHAU Hisar, MPUAT Udaipur, AAU Jorhat, PJTSAU Hyderabad, CSKHUKU Himachal Pradesh, UAE Dharwad, VNMKV Parbhani appeared. Among them, Km Swati Nautiyal achieved second rank, Km Shristi Joshi secured third rank and Km Priyanka Kardam secured fourth rank.

STUDENT'S EXCELLENT PERFORMANCE IN ICAR-SRF EXAM



Mr. Pawan

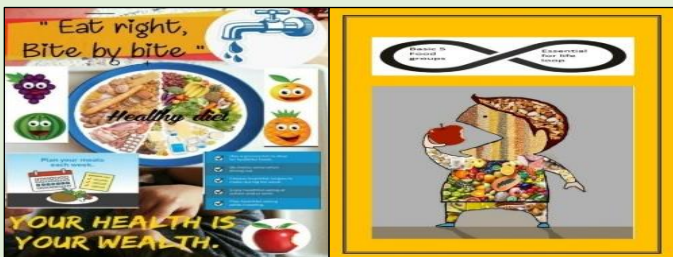
Ms. Diksha

Ms. Manisha

Post graduate student of Department of Clothing and Textiles performed excellently in SRF exam conducted by Indian Council of

Agricultural Research (ICAR), New Delhi. Mr Pawan, secured I position (Gen cat.), Ms Diksha, III position (Gen cat.) and Ms Manisha Kumari secured 11th position (SC category).

ONLINE POSTER MAKING COMPETITION



Ms. Mansi Arya
I Position

Ms. Chhandasi Das
II Position

Under Golden Jubilee Year celebration of College of Home Science, Online Poster making competition on the theme 'Eat right, bite by bite' was organized on 19 Nov 2020. Among a number of entries, first position was awarded to Ms Mansi Arya of Pantnagar University and second position was awarded to Ms Chhandasi Das, of All India Institute of Hygiene and Public Health, Kolkata, West Bengal. Online certificates were issued to all the participants.

ONE-DAY WORKSHOP ON FINANCIAL CONVENIENCE SCHEME ORGANIZED FOR FARMERS

A one-day workshop on 'Financial Facility Scheme under the Agricultural Infrastructure Fund' by the Government of



Chief Guest, Dr J. Kumar,
addressing in the workshop at
Gandhi auditorium.

India was held on 14 Dec 2020 in the Gandhi auditorium of the university. The Chief Guest Acting Vice-Chancellor, Dr J. Kumar, referred to scientific methods and resources to increase farmers' income. Dr Gyanendra Mani stated that NABARD is running a variety of new schemes for farmers, farmers' organizations, banks, agricultural entrepreneurs and other departments related to agriculture. Dr Mani

also informed that NABARD has set a target of allocating a loan of Rs 785 crore to farmers and farmers groups of Uttarakhand in the next four years. On this occasion, the representative of NABARD, Mr Vikas Jain gave detailed information about various useful agricultural schemes of NABARD and Credit Guarantee Scheme. Head of Department, Food Science and Technology Department Dr S.K. Sharma gave a detailed lecture on the role of the university in the efficient use of agricultural infrastructure funds. A total of 250 participants including 129 farmers were present in this workshop.

ACTIVITIES UNDER IDP-NAHEP, PANTNAGAR

- IDP-NAHEP conducted an online training on 'Remote Sensing and GIS Applications in Agriculture' under the Agri-Informatics component. The expert of the training was renowned academician Dr Suresh Kumar, Senior Scientist, ISRO, IIRS, Dehradun. The training sessions held on 1 and 5 Oct 2020 made students aware about applications of GIS and remote sensing techniques, viz. analysis of soil nutrition levels to maximum benefit of the plants. A total number of 54 trainees participated in the training.
- On 7 Oct 2020, IDP-NAHEP conducted a web-session on 'Understanding the Prospects of Silk Industry in India for Promoting Agripreneurship' by Dr Sardar Singh, Scientist-D and Head, Regional Sericulture Research Station, Central Silk Board, Government of India, Jammu (J&K).
- A 3-day training course on 'Drones and its application in agriculture' for students of agriculture and allied sciences under Agri-informatics component of IDP-NAHEP was conducted online at Pantnagar university from 5 Nov 2020. A total of 107 students registered for the course. Mr Biswajit Roy, Aeronautical Engineer, RCHOBYTECH Solutions Pvt. Ltd., Kolkata, West Bengal and Mr Faizan Akhtar, Aircraft Engineer, RCHOBYTECH Solutions Pvt. Ltd.,

Kolkata, West Bengal were the resource persons of the online training programme.

- IDP-NAHEP team in association with Department of Clothing and Textile, College of Home Science, conducted a webinar entitled 'Scope and prospects of designing for entrepreneurship' under certificate course on computer aided textile designing on 6 Nov 2020. Around 50 participants from College of Home Science and allied fields participated in the session and discussed several entrepreneurial challenges and solutions with the session expert Mr Bhavin Trivedi, Senior Associate, Darshi Shah Bhavin Trivedi Label, Ahmedabad.
- Agri-informatics team, IDP, conducted a webinar on the topic 'Recent advances in weather forecasting and agromet advisories' on 6 Nov 2020 under certificate course on Indian monsoon, weather forecasting and agromet advisory services. Dr K.K. Singh, Head, Agromet Advisory Services Division and Scientist G, Indian Meteorological Department, Ministry of Earth Sciences, Government of India facilitated the session with his expertise. A total of 46 participants were benefitted by the session.
- A three-day training on 'Climate Smart Agriculture: Preparing Future Farms' was organized from 10-12 Nov 2020. In different sessions the guest speakers were Dr M. Prabhakar, Principal Investigator, National Innovation in Climate Resilient Agriculture, ICAR-CRIDA, Hyderabad and Dr Himanshu Pathak, Director, ICAR-National Institute of Abiotic Stress Management, Baramati, shared relevant information about the recent advances through citing of current research advancements to around 45 participants. The session provided instances where the steps can be taken for further climate smart interventions.
- IDP-NAHEP organized a two-day training on 'Big Data and Analytics in Agriculture world' on 27-28 Nov 2020 under agri-informatics component. A big data is a combination of technology and analytics that can collect and compile novel data and

process it in a more useful and timely way to assist in decision making. Focused areas of the training were the emerging need of analytics in agriculture industries and the role of big data and analytics in smart farming. Industry expert Dr Sanjay Naithani, Chief Agronomist Israel Chemicals Limited, Gurugram and Ms Neeti Pandey, Solution Delivery Specialist, Mckinsey and Company, Gurugram handled the sessions effectively. Around 40 participants participated in the event.

- A two-day training on 'Copyright Issues and Use of OERs for e-Content Development' was organized on 27-28 Nov 2020 under e-Content Development component. The session was facilitated by Dr B. Jirli, Professor, Department of Extension Education, BHU, Varanasi. About 35 participants (content writers of the University) joined in the event.
- IDP-NAHEP and Asian Agri-History Foundation (AAHF) organized a memorial function on the occasion of 84th Birth Anniversary of the Late Dr Y.L. Nene on 24 Nov 2020. The Chief Guest and Acting Vice-Chancellor, Dr J. Kumar, the Registrar and Trustee, AAHF explained the journey of Dr Y.L. Nene from early life to the establishment of AAHF and Chairman Emeritus. Dr S.K. Kashyap, Dean, College of Agriculture, Dr S.P.S. Beniwal, the current Chairman, AHF, explained in detail about the education one should take from Dr Y.L. Nene's life. At the ceremony, the biennial English and Hindi newspapers 'Vrikshayurveda Farming News and Vrikshayurveda Kheti Samachar' were also released by AAHF to promote organic farming.
- A project entitled 'BAG PACKER-Development of grain collector and bagging machine' funded by IDP-NAHEP, Pantnagar, successfully established the prototype of bag-packer machine in the Innovation and Incubation cell of IDP-NAHEP, Pantnagar. This machine was designed and developed by Ms Sonakshi

Saxena and Ms Nimisha Maurya students of B.Sc. Agriculture, under the supervision of Dr Amit Kesarwani, Assistant Professor, Department of Agronomy, College of Agriculture of the university. This machine will reduce muscular strain and fatigue for collecting and bagging of grains and improve the work efficiency by 30-40 percent.

WORLD FISHERIES DAY CELEBRATED

On the occasion of World Fisheries Day, a programme was organized at College of Fisheries with the theme 'Fisheries sector's contribution to the country's food and nutritional security in the world' on 21 Nov



Sitting on the dais Director Research, Dr Ajit Singh Nain, Dean Fisheries, Dr R.S. Chauhan and Dr A. K. Upadhyay.

2020. Chief Guest of the programme Director, Research, Dr Ajit Singh Nain, Dean, College of Fisheries, Dr R.S. Chauhan and scientists Dr A.K. Upadhyay, Dr Avadhesh Kumar, Dr Malvika Das Trakru along with all the department heads, teachers and staff of the College of Fisheries were present.

Dr Nain, called on fishermen to adopt innovative methods of fisheries, biofloc, RAS, aquaponics etc. to increase their income. Dr Chauhan, said that India's contribution to the world's fish production is 7.56% and fisheries share in the nation's gross domestic product is 1.24% while agriculture is 7.28% of the GDP. Dr Chauhan said that about 1.60 crore persons are getting livelihood in fisheries sector directly and the country receives about 47 thousand crore rupees annually from export of fisheries production. Taking full advantage of the Pradhan Mantri Matsya Sampada Yojana, he called upon fishermen to give their invaluable contribution to the progress of fisheries sector. During the programme fish seeds were made available to the fishermen and fish was also sold.

PROSPECTIVE TECHNOLOGIES RECENTLY GIVEN TO FARMERS

108TH ALL INDIA KISAN MELA HELD IN VIRTUAL MODE

The 108th All India Farmer's Fair was organized in virtual mode by Pantnagar University from 13 to 16 Oct 2020, which was inaugurated by the Vice-Chancellor, Dr Tej Pratap in the auditorium of the Training Centre of Directorate of Extension Education. Dr Pratap said that due to the COVID-19 pandemic, agricultural techniques distribution of seeds, plants, etc. were made online. In this fair, more than 20,000 farmers were connected online from the Krishi Vigyan Kendras of Uttarakhand and Uttar Pradesh and seeds of about Rs 32 lakh were sold online. More than 40,000 farmers participated in the *kisan goshties* at the fair. On this occasion, 09



Vice-Chancellor, Dr Tej Pratap, addressing at the inaugural session of Pantnagar Kisan Mela.

progressive farmers from various districts of the state were also honored by giving online certificates for innovative experiments in farming and remarkable success.

JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGADH

NATIONAL RANKING OF CSR-GHRDC ENGINEERING COLLEGES SURVEY 2020

It is a matter of proud for the University that the College of Agricultural Engineering and Technology, JAU, Junagadh participated in the GHRDC and Competition Success Review-Ranking of India's Top Engineering Colleges - 2020. In this survey, the marks were given based on infrastructure, faculty research, consultancy, EDP, other programmes, admission, curriculum, delivery systems, placements, USP, social responsibility, networking and industry interface. Under the

able leadership of Dr. V. P. Chovatia, Vice-Chancellor, JAU, and Dr N. K. Gontia, Principal & Dean, CAET, Junagadh, and sincere guidance of university authority and consistent hard work of the faculty, the college has improved its ranking in comparison to previous years and ranked 22nd in the 4th category of Top Outstanding Engineering Colleges of Excellence in India and got overall 63rd ranking at National Level. The college ranked 2nd in all Engineering Colleges of Gujarat State next to Nirma Institute of Technology, Ahmedabad. The college has improved its ranking continuously since last 9 years, which reflects the educational, research and extension strength of the college and the university.

TRAINING ON NEXT GENERATION EXTENSION TOOLS and TECHNIQUES FOR UPCOMING AGRICULTURAL PROFESSIONS

Department of Agricultural Extension, College of Agriculture, JAU, Junagadh organized a five-day training programme on “Next Generation Extension Tools and Techniques for Upcoming Agricultural Professions” during Oct19-23 Oct 2020. This training programme was



Training on Next Generation Extension Tools and Techniques for Upcoming Agricultural Professions

aimed to improve overall competency of the undergraduate students of the University as well as to reflect the students about the impact assessment, new age mobile application, ICT tools and intervention for future extension strategies to the undergraduate students. Total 95 students from College of Agriculture, Junagadh, Motabamdariya and Khapat participated in this training. Inaugural function was graced by Chief Guest Prof. Anil K. Gupta, Visiting Faculty, IIMA & IITB and Academy Professor, ACSIR, Dr R. N. Padaria, Principal Scientist, ICAR-IARI, New Delhi, Dr V.P. Chovatia, Vice-Chancellor and other officials of the JAU, Junagadh.

VOCATIONAL TRAINING ON RECENT ADVANCES FOR SUSTAINABLE LIVESTOCK FARMING

Department of Animal Science, College of Agriculture, JAU, Junagadh organized five-day online



Vocational Training on recent Advances for Sustainable Livestock Framing

vocational training programme on "Recent Advances for Sustainable Livestock Farming" on Oct5-9 Oct 2020. The programme was aimed to acquaint the participants to come across with recent advances and technologies needed for sustainable livestock farming. A total of 50 undergraduate students participated in this training programme.

VIRTUAL COLLOQUIUM ON DRY FLOWER - A NEW EDGE ENTREPRENEURSHIP IN FLORICULTURE INDUSTRY

Department of Horticulture, College of Agriculture, Junagadh organized national webinar on “Dry Flower - A New Edge Entrepreneurship in Floriculture Industry” on 23 Dec 2020. The webinar was aimed to impart know how for starting a new venture of dry flower to UG students.



Virtual Colloquium on ‘Dry Flower - A New Edge Entrepreneurship in Floriculture Industry’

Altogether, 512 undergraduate students participated in this programme.

SEA RANCHING OF LAB REARED PEARL OYSTER

The laboratory reared pearl oyster (*Pinctada fucata*) juveniles of size 2 mm to 35 mm were sea ranched at the Kalubhar Island, Gulf of Kachchh, Gujarat for conservation purpose. The pearl oyster population in Gulf of Kachchh

is strengthened by sea ranching of its larvae and juvenile at various islands in Gulf of Kachchh by JAU Fisheries Research Station (FRS), Sikka since 2009. The activities are jointly carried out by FRS, JAU, Sikka and Marine National Park (MNP), Forest Department, Jamnagar. Total 5 lakh pearl oyster spats and juveniles were provided to MNP, Jamnagar for sea ranching at their natural habitat for the conservation during the year 2020-21. During the sea ranching activity, FRS team was accompanied by ACF, Forester and other associated staff of MNP Jamnagar. Since the year 2009, total 1411.96 lakh pearl oyster larvae were sea ranching in Gulf of Kachchh by Fisheries Research Station, JAU, Sikka.



Sea Ranching of Lab Reared Pearl Oyster by Fisheries Research Station

KERALA VETERINARY AND ANIMAL SCIENCES UNIVERSITY, WAYANAD

VACCINE FOR DUCK RIEMERELLOSIS

Scientists at Kerala Veterinary and Animal Sciences University (KVASU), Mannuthy, developed a vaccine for riemerellosis, a bacterial disease that causes high mortality in ducks.

Riemerellosis causes 5-75% mortality in ducks and more than 50% in ducklings



Duck Riemerella vaccine developed

below five weeks. Kerala minister for Animal Husbandry K. Raju released the vaccine to Animal Husbandry Department (AHD). The inactivated vaccine was developed by team of scientists from Department of Veterinary Microbiology, College of Veterinary and Animal Sciences, Mannuthy under the leadership of Dr

Priya P.M., Associate Professor of the department.

Riemerellosis, earlier known as 'new duck disease' was reported from Wayanad district of Kerala in 2008, and from different parts of the state thereafter. The infected ducks showed clinical signs of hurdling, squatting down, incoordination of neck, paralysis, and most of them died within couple of days of infection. Post mortem examination revealed pericarditis, perihepatitis and air sacculitis. Due to similarity of the organism and its illness, most often, riemerellosis is misdiagnosed as pasteurellosis, a well-known bacterial disease of ducks against which routine vaccination is practiced in the state. Deaths in ducks due to the disease were reported from Kuttanad and nearby places recently and farmers complained of huge financial losses following the disease. The antibiotic therapy becomes ineffective or costlier once the organism reaches the brain, said Dr Priya. Recurrence of the infection was also noticed in some farms and it was realized that the disease can be controlled only by developing a new vaccine.

The causative bacteria, *Riemerella anatipestifer* was isolated and extensive research series of trials has been carried out from 2010. The inactivated vaccine was developed in the Department of Microbiology with the financial aid of Kerala State plan funds during 2015- 16 and 2016-17. The vaccine technology developed at KVASU will be transferred to IAH&VB (Institute of Animal Health and Veterinary Biologicals), Palode, Thiruvananthapuram of Department of Animal Husbandry, Kerala for benefit of the farming community. Technical assistance would be provided from the university for scale-up processes followed by field trials.

MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR

UNIVERSITY ADDRESSING COVID PANDEMIC



Team of academicians working in COVID Lab

Centre for Zoonoses with state-of-the-art facilities was established at Department of Veterinary Public Health and Epidemiology, Nagpur Veterinary College under Maharashtra Animal and Fishery Science University (MAFSU), Nagpur with the financial support from Indian Council of Agricultural Research (ICAR), New Delhi. The infrastructure/ facilities at the Centre along with the expertise has been dedicated for the real time diagnosis of COVID-19 infection since 8 April 2020 by initiating testing of human samples (oral and nasal swabs) after it received formal recognition from the ICMR, New Delhi. The team of academicians at every stage of its processing; work with precision for serving the society and the nation with social and moral responsibility. Working with full dedication the team of Veterinarians had screened 24,072 human samples for COVID-19 till 15 January 2021. The Centre is truly contributing 'One Health' through its activities and stands the first team of veterinarians in India addressing the COVID-19 pandemic.

EMBRYO BIOTECHNOLOGY LABORATORY

With the financial assistance from Rashtriya Gokul Mission, Government of India, New Delhi,



Inauguration of Embryo Biotechnology Laboratory

a sophisticated Embryo Biotechnology Laboratory was established at Nagpur Veterinary College, Nagpur under Maharashtra Animal and Fishery Sciences University, Nagpur.

Conservation of elite germ plasm of indigenous cows is the prime objective of this laboratory.



Observing the In Vitro Fertilization

The Embryo Biotechnology Laboratory was inaugurated on 05 Dec 2020 by Shri Nitinji Gadkari, Minister of Road Transport and Highways, Micro, Small and Medium Enterprises, Government of India in the august presence of Shri Sunilji Kedar, Minister of Animal Husbandry, Dairy Development, Sports and Youth Welfare, Maharashtra State and Pro-Chancellor, MAFSU, Nagpur and Col. (Dr) Prof. A. M. Paturkar, Vice-Chancellor, MAFSU, Nagpur.

ONLINE CONFERENCE OF WOMEN VETERINARIANS

XVI National Online Conference of Indian Association of Women Veterinarians (IAWV-2020) on

“Sustainable Contribution of ATMANIRBHAR Women

Veterinarians in Enrichment of Production Potential in

Livestock through Applications of Modern Technologies” was organized during 09-10 Dec 2020 by the Department of Veterinary Pharmacology and Toxicology, College of Veterinary and Animal Sciences, Parbhani. The conference was inaugurated by Col. Prof. (Dr) A.M. Paturkar, Vice-Chancellor, MAFSU, Nagpur. The event was graced by virtual presence of Dr Fauzia Khan,

Member of Parliament, Rajya Sabha, Prof. (Dr) Sanjita Sharma Dean, PGIVER, Jaipur (Rajasthan), Dr A. P. Somkuwar, DI & Dean,



Glimpses of inaugural guidance by dignitaries

MAFSU, Nagpur, Dr Madhu Swamy President – IAWV, Dr N.M. Markandeya, Associate Dean/Chairman IAWV-Parbhani and Dr Dipali Patil, Organizing Secretary, IAWV- Parbhani. Total of 282 women veterinarians from all parts of the country participated in the said online conference.

INTERNATIONAL CONFERENCE

In view of on-going COVID-19 pandemic, the International Conference WILDCON 2020 was organized through online mode from 18 to 20 Dec 2020 with the theme “Insights into wildlife conflicts, rescue and rehabilitation: Challenges and

Opportunities for conservation”; besides conference, the 14 Annual Convention of Association of Indian Zoo and Wildlife Veterinarians” was also held at Nagpur. The conference was inaugurated physically by welcoming the guest of honour Col. (Dr) Prof. A.M. Paturkar, Vice-Chancellor, MAFSU, Nagpur; Dr N.P. Dakshinkar, Vice-Chancellor, DSVCKV, Durg, Chhattisgarh; Dr N. Rambabu, PCCF (Head of Forest Forces), Government of Maharashtra; Shri N.H. Kakodkar, PCCF & CWLW, Government of Maharashtra; Shri N. Vasudevan, Managing Director, FDCM Ltd and Dr A.P. Somkuwar, DI and Dean (Vet) at the hands of Dr S.V. Upadhye, Organizing Secretary, WILDCON-2020, Dr V.M. Dhoot and Dr G.R. Bhojne, Co- Organizing Secretaries, WILDCON-2020.

Shri Sanjayji Rathod, Minister of forest, relief and rehabilitation, Maharashtra State addressed the gathering through his online message whereas Shri Sunilji Kedar, Minister

WILDLIFE



Release of Compendium and Batch of WRTC by the Dignitaries



Shri Sanjay Ji Rathod addressing the gathering through online message

of Animal Husbandry, Dairy Development, Sports and Youth Welfare, Maharashtra State and Pro- Chancellor, MAFSU, Nagpur also offered blessings and wishes in the form of message for WILDCON-2020.

VETERINARY PATHOLOGY CONGRESS

Department of Veterinary Pathology, Nagpur Veterinary College, Nagpur organized Online International

Veterinary Pathology Congress 2020, 37 annual conference of Indian



Inauguration by Shri Sunil Ji Kedar

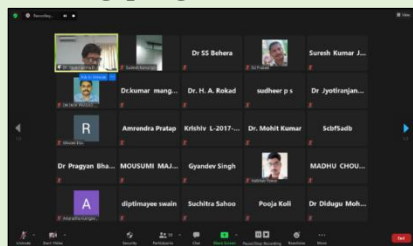
Association of Veterinary Pathologists and international symposium on “Role on veterinary pathology in controlling emerging and re-emerging diseases of livestock and poultry: one health Approach” during 26 -29 Dec 2020. The conference was inaugurated by Shri Sunil Ji Kedar, Minister of Animal Husbandry, Dairy Development, Sports and Youth Welfare, M.S. and Pro-Chancellor, MAFSU, Nagpur under the Chairmanship of Prof. A. M. Paturkar, Vice-Chancellor, MAFSU, Nagpur. A total of 329 participants (national and international) participated in the conference and total 12 Technical sessions were conducted. Dr A. K. Srivastava, Member, ASRB, ICAR, New Delhi, presented thematic lecture on One Health approach. Foreign speakers, Prof. Fransisco Uzal, Dr America Mederos, Dr Kevil Keel, Dr Asli Mete, Dr Shaan Kumar presented lead papers as experts.

ODISHA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

TRAINING ON BASIC VETERINARY OPHTHALMOLOGY AT OUAT

A national level training programme was held at College of Veterinary Science and Animal Husbandry under Odisha University of Agriculture and Technology, Bhubaneswar during 17th to 20 Nov 2020 in digital mode.

Inaugurating the training programme, Dr P.K. Agrawal, Vice-Chancellor of the University emphasized on the importance of livestock in rural economy.



Experts from various parts of the country discussed on diversified aspects such as Common ophthalmic affections in animals and their therapeutic management, Ocular emergencies in small animals and their critical care, Anesthesia for ophthalmic surgery, emergency, complications and their management, Diverse ophthalmological affections in large animals, Cataract surgery and its management in Veterinary practice and Basic diagnostic techniques for ocular examination in Veterinary practice. Faculty members, students, field veterinarians and others participated in the programme.

OUAT FARMERS' FAIR

A state level Farmers' Fair was organized on 24 Nov 2020 at Odisha University of Agriculture



and Technology, Bhubaneswar, in digital mode with participation of scientists, extension personnel, Government officials and farmers from various parts of the state. Inaugurating the function, the Chief Guest Dr Arun Kumar Sahoo, Minister of Agriculture and Farmers' Empowerment, Fisheries and Animal Resources Development and Higher Education, Government of Odisha emphasized on promotion of entrepreneurship in the field of agriculture and allied areas. He opined that rural youths may be motivated for taking up goatery, poultry, dairy, pisciculture, bee-keeping, floriculture and other vocations for employment generation. Dr Saurabh Garg, Principal Secretary, Department of Agriculture and Farmers' Empowerment, Government of

Odisha graced the occasion as the Guest of Honour. In his presidential address, Dr Pawan Kumar Agrawal, Vice-Chancellor of the University highlighted the steps taken by the University for the benefit of farmers. A farmer-scientist interaction programme was organised during the occasion. There was release of various publications during the celebration. Deans, Directors, Faculty members, Scientists and other officials of the University participated in the programme.

RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWAVIDYALAYA, GWALIOR

MOU Signed:

- RVSKVV, Gwalior signed an MoU with Dalhousie University, Canada on 17 Nov 2020 for cooperation.

RESEARCH AND DEVELOPMENT VARIETIES NOTIFIED

Raj Vijay Toria 3 (RVT 3):

It matures in 93–99 days. The yield potential is 13.00 q/ha. Plant



medium (118-138

Raj Vijay Arhar 19 (RVA 19)

cm) spreading, seed is small to medium, Tolerance/ resistance to white rust, *Alternaria* leaf blight on pods, powdery mildew, downy mildew and *Sclerotinia* stem rot, less infestation of aphids. It is suitable for rainfed and irrigated conditions of Madhya Pradesh.

Raj Vijay Arhar 19 (RVA 19) [RVSA-16-1]:

It matures in 96 days. The yield potential is 19 q/ha. Resistant to *Fusarium* wilt and tolerant to *Phytophthora*



Raj Vijay Toria 3 (RVT 3)

blight. It is suitable for cultivation in Tamil

Nadu, Karnataka, Andhra Pradesh and Telangana.

EXTENSION ACTIVITIES

ONLINE 21-DAY INNOVATIVE TRAINING ORGANIZED

RVSKVV, Gwalior (Madhya Pradesh) and National Agricultural Development Cooperative Ltd., Baramulla (UT of Jammu and Kashmir) have jointly organised an Online 21-day Innovative Training Programme (ITP) on Recent Technologies of Agribusiness Management and Agri Entrepreneurship during 08-28 Oct 2020. A total of 100 agricultural professional have participated in the programme and got benefitted from a learned panel of seasoned trainers from the fields of Agribusiness Management.

- Weekly online 'Raj Vijay Krishi Sandesh'

RVSKVV, Gwalior started a weekly online 'Raj Vijay Krishi Sandesh' programme for farmers and extension workers for



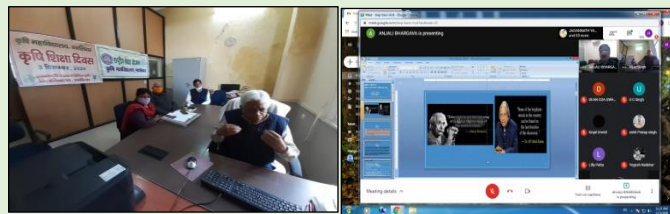
Training of organic growers of vegetable medicinal & aromatic

updating them and vegetable medicinal and aromatic, spices, field and food crops by KVK, Mandsaur, during 08 to 12 Dec 2020. During the training solutions on various issues and problems of agricultural and allied areas were provided.

- Organized a five-day vocational training on organic growers of programme they learnt about Jiwamrit, Pusa waste decomposer, N.C.O.F. waste decomposer, Agnitra and Panchgavya and copper continuing buttermilk, Dashparni ark, and identification of beneficial and harmful insects.

KRISHI SIKSHA DIWAS

Krishi Siksha Diwas was celebrated by University on dated 03 Dec 2020 in online



Krishi Siksha Diwas Celebrated

mode. The Speakers expressed their views on Career opportunities for Agriculture students, New Education Policy 2020 with special focus on Agriculture and Agri-Clinics for self-employment. Nearly 70 participants were registered in the programme. The results of Essay Competition organized for under graduate students were announced.

**SWAMI
RAJASTHAN
UNIVERSITY, BIKANER**

**KESHWANAND
AGRICULTURAL**

KISAN MELA

Two-day virtual Kisan Mela first of its kind in the State was successfully organized by the university during 22-23 Dec 2020. More than 2,500 farmers registered covering 9 states of the country. It was broadcasted through all the



2nd day of Kisan Mela, Prof. R.P. Singh remembering Ch. Charan Singh ji on his birthday on 23.12.2020

social platforms. Queries of the farmers were answered by the scientists during the Kisan Goshthi Session. Prof. A.K. Singh, DDG (Agricultural Extension), ICAR was the Chief Guest on the inaugural day. He emphasized that youth must turn to agriculture and the farmers should take agriculture as business opportunity. Prof. S.K. Singh, Director, ATARI, Jodhpur and Shri Jaideep Srivastava, CGM, Regional Office, NABARD, Jaipur also addressed the farmers highlighting the importance of Post-Harvest Technology. Vice-

Chancellor, Prof. R.P. Singh announced the annual award, viz. 'चौधरी चरण सिंह स्मृति उत्कृष्ट किसान पुरस्कार' to 6 innovative and progressive farmers. Vice-Chancellor also released the Krishi Calendar-2021, 'e-Smarika' and monthly magazine 'Chokhi Kheti' of Directorate of Extension Education.

EXTENSION ADVISORY COUNCIL MEET

Prof. R.P. Singh, Vice-Chancellor, SKRAU, Bikaner, presided over the marathon virtual meetings of Research and Extension



Prof. R.P. Singh, addressing the Regional Advisory Council meeting on virtual platform

Advisory Council held on 28 Dec 2020. He was pleased to mention that during last 4 years, the Directorate of Research developed 15 high yielding varieties and produced 20,709 q high quality seeds. The Directorate of Extension distributed the seeds through KVKs to farmers. It is also providing its services in the university adopted village under Social Responsibility Scheme. In the RAC meeting Dr A.K. Singh, DDG, Horticulture, ICAR; Dr O.P. Yadav, Director, CAZRI, Jodhpur; and Dr Z.S. Solanki, Ex-VC, Agricultural University, Kota provided their valuable inputs and suggestions. While Dr A.K. Singh, Secretary, NAAS; Dr S.K. Singh, Director, ATARI, Jodhpur; and Dr O.P. Singh, Ex-DEE, SVPUAT, Meerut, graced the RAC meeting



First Virtual Kisan Mela of Rajasthan organized

VISIT OF CHIEF MINISTER

Shri Ashok Gehlot, Chief Minister of Rajasthan, virtually inaugurated the newly established College of Agriculture at Sriganganagar under the jurisdiction of



On the Occasion of Inauguration Of Newly Established College of Agriculture at Sriganganagar. Shri Rajkumar Gaur, MLA, Lightning the Lamp with HVC and Faculty

SKRAU, Bikaner on 18 Dec 2020 in the benign presence of Shri Lal Chand Kataria, Agricultural Minister, Government of Rajasthan, Shri Rajkumar Gaur, local MLA, Vice-Chancellor, Prof. R.P. Singh and distinguished faculty.

TAMIL NADU AGRICULTURAL UNIVERSITY, COIMBATORE

TNAU BOUNCED BACK TO 8TH RANK FROM 33RD RANKING

TNAU secured 8th rank in the ICAR ranking for the year 2019, bouncing back from 33rd ranking of last year. As a result of major efforts taken since assumption of Prof. N. Kumar, Vice-Chancellor, in imparting quality education, transforming the outlook of students on a holistic perspective, attracting more external agency funded schemes, quantitative increase of quality publications, etc. university has elevated its standards making a prominent place both in the National and International arena. This University has attained 8th rank among the 67 agricultural institutes, 4th among the State Agricultural Universities and 1st among the Southern Agricultural Universities. This achievement is due to the intensive efforts taken to restore the ranking through various audacious measures on a war footing basis, which gradually slipped from 7th in 2016, 27th in 2017 and 33rd in 2018. An intensive motivational drive was given to the scientists and the entire fraternity spread over in various locations of the institutions who worked tirelessly to achieve this.

TNAU TOOK PART IN PRIME MINISTER'S VAIBHAV PROGRAM

The Prime Minister of India has launched a program Vaishvik Bhartiya Vaigyanik (VAIBHAV) 2020 Summit, a global virtual summit of overseas and resident Indian Researchers and Academicians on 02 Oct 2020. The focus of the mission is to link globally renowned Indian Scientists abroad with a elite group of scientists in Indian Universities, IITs, IISc, CSIR etc. During the discussion, the Government of India and Director General of ICAR identified 'Application of Nanotechnology in Food / Feed Processing and Metabolic Biology of Food' as one of the areas. Dr K.S. Subramanian, Director of Research and Founder Head of the Department of Nano Science and Technology, TNAU, Coimbatore was the panelist for discussions in the forum representing both SAUs and ICAR Institutes. Several international scientists presented their views on global nanotechnology interventions in agri-food systems. The team identified nano-diagnostics, nano-packaging and food systems besides nano-agri inputs for establishing research network and collaborations.

TRADE MEET TO PROMOTE VGD 1 BRIYANI RICE

A Trade Meet was organized jointly by the Commissionerate of Agricultural Marketing and Agri-Business (CAM & AB) and TNAU, Coimbatore on 12 Oct 2020 as webinar to promote export of non-basmati VGD 1 Jeeraga



Virtual Trade meet conducted to promote VGD

samba Briyani rice involving traders and exporters of rice. Shri S.J. Chiru, IAS, Commissioner of CAM & AB made arrangements as a part of follow up action of the issues discussed during 84th Scientific Workers' Conference. More than 190 traders were invited and 20 exporters participated in

the webinar. Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore and Dr K. S. Subramanian, Director of Research, TNAU, Dr S. Geetha, Director (CPBG) held discussions.



Global virtual summit attended under Vaibhav program

WEBINAR ON ARTIFICIAL INTELLIGENCE IN AGRICULTURE

A Webinar on 'Artificial Intelligence in Agriculture' was organized by the Department of Physical Sciences and IT,



Webinar organized on Artificial Intelligence

Agricultural Engineering College and Research Institute (AEC&RI) on 22 Oct 2020. Dr B. Sridhar, Dean, AEC&RI welcomed the participants and gave a brief introduction about Artificial Intelligence in Agriculture. Dr N. Kumar, Vice-Chancellor in his Presidential Address emphasized the necessity of utilization of Artificial Intelligence technologies in the field of agriculture for improving the efficiency with respect to crop and soil monitoring, weather forecasting and predictive agricultural analytics. The Guest Speaker Mr L. Ashok, Founder and CEO, Future net Technologies elaborated the various AI technologies and scope of AI in agricultural sector. Dr M. R. Duraisamy, Professor and Head, Department of Physical Sciences and IT proposed vote of thanks.

TRAINING ON SECURED DIGITAL PAD SYSTEMS FOR AGRICULTURAL EDUCATION IN TNAU

Controller of Examinations and the Directorate of Agri-Business Development of TNAU jointly organized a training on 'Course Content

Creation, Delivery and Student Assessment using Secure Digital Pad' on 29 Oct 2020 for the benefit of faculty with the financial support of National Agricultural Higher Education Programme, Institutional Development Programme of Indian Council of Agricultural Research (ICAR-NAHEP-IDP), New Delhi. Dr N. Kumar, Vice-Chancellor, TNAU



Inauguration of Training by the Vice-Chancellor

inaugurated the training programme and strongly advised the faculty members to use the newly introduced Secured Digital Pad System for effective teaching of students and also assessment of their performance so as to maintain the quality and standard of education in the digital era. Dr K. Soorianathasundaram, Controller of Examinations welcomed the gathering. Dr A. S. Krishnamoorthy, Registrar, TNAU and Dr M. Kalyanasundaram, Dean, AC&RI, Coimbatore offered felicitations. Dr S. D. Sivakumar, Director, Agri-Business Development and Principal Investigator of IDP proposed vote of thanks.

ESTABLISHMENT OF HIGH VALUE FORESTS UNDER IDP

A pioneering attempt was taken up by establishing high value forest under the Institutional Development Plan (IDP) of



Launch of IDP Forest by Vice-Chancellor

TNAU at FC&RI, Mettupalayam. This IDP forest was launched by Dr N. Kumar, Vice-Chancellor, TNAU and Thiru. I. Anwardeen, IFS, Additional PCCF and Director, TNFA, Coimbatore, the Chief Guest of the programme by planting superior red sanders genetic resources on 05 Nov 2020 in the presence of the University Officers of TNAU, Coimbatore.

This project is supported by World Bank through National Agricultural Higher Education Project (NAHEP). The Vice-Chancellor, TNAU and Additional PCCF, Coimbatore also initiated one lakh seed ball sowing programme incorporating seven indigenous tree species. The dignitaries opened the R&D Nursery, wood seasoning and preservation lab and value addition workshop and launched the forest products like honey and immunity booster developed through incubator.

MoU SIGNED FOR DEVELOPMENT OF AI BASED MOBILE APP

Dr A. S. Krishnamoorthy, Registrar, TNAU, Coimbatore signed an MoU with



MoU signed for Development of AI based Mobile App

Mr Manivasagan Ramamoorthy, CEO of Vyazhan

Technologies Pvt. Ltd, Coimbatore on 06 Nov 2020 at TNAU in the presence of Dr N. Kumar, Vice-Chancellor, TNAU, Dr S. Panneerselvam, Director (WTC), TNAU and Dr M. Jawaharlal, Director of Extension Education, TNAU for the development of Artificial Intelligence (AI) and deep learning based android mobile application to tackle the field level problems of farmers in Tamil Nadu. Through the World Bank funded Tamil Nadu Irrigated Agricultural Modernization (TN-IAM) Project, 'M-Velanmai' is implemented at the Training Division, TNAU led by Dr C. Karthikeyan, Professor (Agricultural Extension) and Principal Investigator during 2019-24. TNAU will act as Knowledge partner and Vyazhan Tech. will be the Technological partner to develop the AI based android app named 'M-Velanmai'.

BRAINSTORMING SESSION ON COCONUT WHITEFLIES

Department of Agricultural Entomology, Centre for Plant Protection Studies (CPPS), TNAU

organized the online brainstorming session on 'Coconut Whiteflies: Issues, Management and Way Forward' on 09 Nov 2020 at TNAU, Coimbatore.

The recent invasion of whiteflies on coconut trees, viz., the Rugose Spiralling Whitefly (RSW), Bondar's



Vice-Chancellor Inaugurated the Brainstorming Session

Nesting Whitefly (BNW), Nesting Whitefly (NW) and Areca Palm Whitefly (APW) in Tamil Nadu and their sustainable management was the focal point of discussion. Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore inaugurated the webinar and in his presidential address emphasized the need for getting valuable suggestion of the experts, which would become part of the investigation and strategies to manage these kinds of invasive insects at field level. Field level success achieved by the Entomologists of the University in managing Fall armyworm on maize and papaya mealybug through eco-friendly approaches was accoladed by him. A total of 90 entomologists attended the webinar.

INDUSTRY INSTITUTION INTERACTION WORKSHOP AND SIGNING OF MoU AT TNAU

Agricultural Engineering College and Research Institute (AEC&RI), TNAU, Coimbatore organized the Industry Institute Interaction Workshop to augment technical collaboration

with food and agro processing industries and to redesign the curriculum of food technology degree

programme. Dr N. Kumar, Vice-Chancellor, TNAU presided the meeting and suggested for the collaborative research and Industrial placement opportunity for the B.



Vice-Chancellor presided the Industry Institution Interaction Workshop

Tech Food Technology students. Dr B. Shridar, Dean, AEC&RI, TNAU, Coimbatore welcomed the gathering. Dr S. D. Sivakumar, Director, Agribusiness Development, TNAU highlighted the Industry Institution workshop.

Representatives of leading Industries

including VVV Sons Edible Oils Pvt. Ltd, Virudhungan, Aachi Group of Companies, Chennai, Envigreen Biotech Pvt. Ltd, Bengaluru, Naga Foods Pvt. Ltd, and Magic Foods Pvt. Ltd, participated. Also, the industrial experts from Synthite Food Ingredients Ltd, Kerala, AVT natural products ltd., UFS Tea Global – R&D, Hindustan Unilever Research Centre, Suguna foods, Hindustan Coca Cola Beverages Ltd, shared their expertise for shaping the future of B. Tech Food Technology Programme. In the presence of Dr N. Kumar, Vice-Chancellor, Dr A. S. Krishnamoorthy, Registrar of TNAU signed an MoU with Key Stone Foundation for extraction of extractable from natural plant resources and Prosun Energy Pvt. Ltd, for creation of Centre of Excellence (CoE) in Solar Energy on 18 Nov 2020.



MoU Signed during the Industry Institution Interaction Workshop

MoA SIGNED FOR MASS MULTIPLICATION OF BANANA HYBRIDS

TNAU, Coimbatore is the pioneer institute in banana breeding in India. Since its inception in 1971, banana improvement programmes were steadfast. The

intensive research in banana resulted in the release of a banana hybrid CO 2, which is akin to the

commercial variety Ney Poovan and tolerant to nematodes. A MoA was signed on 23 Nov 2020 between TNAU and M/s. Hi-Fi Biotech India



MoA Signed for Mass Multiplication of Banana Hybrids

Private Limited, Salem for large multiplication of banana varieties/hybrids in the presence of Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore. Dr A. S. Krishnamoorthy, Registrar, TNAU and Dr P. Murugesu Boopathi, Managing Director of M/s. Hi-Fi Biotech India Private Limited, Salem signed the MoA. Dr L. Pugalandhi, Dean, HC&RI, Coimbatore and Dr M. S. Aneesa Rani, Professor and Head, Department of Fruit Science were also present.

UK - INDIA AGRI INNOVATION VIRTUAL TOUR

The UK - India Agri Innovation Virtual Tour was attended by Policy Makers in India and UK, Agricultural Production



Participation of TNAU in the UK-India Agri Innovation Virtual Tour

Commissioners of Tamil Nadu, Telangana and Maharashtra and Vice-Chancellors of TNAU, PJTSAU and SAUs from Maharashtra. Dr Renu Swarup, Secretary, Department of Biotechnology, Dr Robert Bradburne, Deputy Chief Scientific Advisor, UK Department of Environment, Food and Rural Affairs (DEFRA) and Dr Tom Child, Deputy Director, Global Research and Innovation, UK Department of Business, Energy and Industrial Strategy (BEIS) set the stage by providing snap shot of UK Innovation Landscape and Policy besides flagging of challenges and opportunities opened up for India - UK research and educational collaborations. The event was organized by Foreign, Commonwealth and Development Office and moderated by Ms Sara Fallon, Regional Director, Science and Innovation, British High Commission, New Delhi besides facilitation by Ms Swati Saxena, during 1-4 Dec 2020 on virtual mode. On the opening day, Shri Gagandeep Singh Bedi IAS, Agricultural Production Commissioner and Principal Agricultural Secretary to the Government of Tamil Nadu, highlighted the potentials and constraints in the State Agriculture. Dr N. Kumar, Vice-Chancellor, TNAU elucidated

facilities available in TNAU and flagged off some of the emerging areas of interest.

PATENT FOR PROTEIN BASED CROP GROWTH BOOSTER

Seed Centre, Tamil Nadu Agricultural University, Coimbatore conducted research to standardize the seed treatment and foliar spray with 'Protein Extract' to increase crop growth and productivity. The foliar spraying of Protein extract @ 1-1.5% during pre-flowering and flowering stages increased the crop yield by over 15%, across the crop spectrum. The products were launched as commercial natural growth boosters as 'NutriGold' and 'SeedAid'. A Patent Application was filed by the scientists for the newly developed technology, which includes product development procedure of protein extract for seed treatment and foliar spray to improve crop productivity. Patent was granted for the "Technology for Protein Extraction for Seed Treatment and Foliar Spray Application". Dr N. Kumar, Vice-Chancellor congratulated and appreciated Dr R. Umarani, Professor, Seed Science and Technology and other scientists involved in developing the patented technology.

DEMONSTRATION OF DRONE SPRAYING

Drone spraying standardization studies in maize against the maize fall armyworm were carried under field conditions during 5- 7 Nov 2020 in Tiruvannamalai district using Unmanned Aerial Vehicle (Drones) with a team comprising TNAU Scientists and staff of State Department of Agriculture, Tiruvannamalai district. The drone was tested at different speeds and heights using different types of nozzles and



Demonstration of Drone spraying insecticides. Conventional spraying using knapsack sprayer and Control droplet applicator (Ultra Low Volume) sprayers were also taken up for comparison. Observations on fall armyworm infestation was made prior to

spraying and at periodical intervals after spraying. The results of this study will culminate in perfecting drone spraying technology, which is the need of the hour from the view point of Government of Tamil Nadu and stakeholders for combating invasive pests like maize fall armyworm, rugose spiralling whitefly and cassava mealybug in agricultural and horticultural ecosystems.

TAMIL NADU DR J. JAYALALITHAA FISHERIES UNIVERSITY, TAMIL NADU

NSS VOLUNTEER NOMINATED TO PARTICIPATE IN THE PRE-REPUBLIC DAY PARADE CAMP AT TRICHY



Mr. K. Aakashraj

The University Level Selection Committee nominated a NSS Volunteer Mr K. Aakashraj of Fisheries College and Research Institute, Thoothukudi to participate in the South Zone Pre-Republic Day Parade Camp held at National College at Karumandapam, Tiruchirappalli from 27 Nov 2020 to 06 Dec 2020. Dr B. Sundramoorthi, Dean and NSS Co-ordinator congratulated and encouraged him to participate more programme in future.

MAHILA KISAN DIVAS

Mahila Kisan Divas recognizes the critical role and contribution of rural women, including indigenous women, in



Mahila Kisan Divas







enhancing agricultural and rural development, improving food security and eradicating rural poverty. Mrs Jeyaseeli, Managing Partner, PQR Marine Products, Thoothukudi presented her "Success story on Value-added Fishery

Product". She had received training from Fisheries College and Research Institute and became a successful woman entrepreneur. Students were highly motivated and the programme was interactive.

UNIVERSITY OF AGRICULTURAL SCIENCES, BENGALURU

NEW VARIETIES RELEASED

New varieties of cowpea (KC 8), groundnut (GKVK-27), and fodder cowpea (MFC 09-03) were released during the Krishi mela-2020.

	
Cowpea KC 8 Pods	Groundnut GKVK27 Field View
	
Cowpea KC 8 Seed	Groundnut GKVK 27
	
Cowpea KC 8 Field View	GKVK 27 PODS

Cowpea KC 8: Medium duration variety suitable for sowing in *kharif*, late *kharif* and summer yields 13-14 q/ha, recommended for cultivation in Zone 5.

Groundnut GKVK 27: Bold seeds, light brown, suitable for *kharif* and summer, yields 32 q/ha under protective irrigation; high water use efficiency, resistant to leaf rust, moderately resistant to leaf spot, recommended for cultivation in Zone 5.

FRONT LINE DEMONSTRATIONS

AICRP on weed management organised Front Line Demonstration with respect to use of post-emergence



Front Line Demonstration on use of Post-Emergence Herbicide in Maize

herbicide (Tembotrione 42% SL 120 g a.i/ha + atrazine 500 g/ha) in maize in collaboration with KVK, Bengaluru Rural at Vabasandra and Thuruvanahalli of Bengaluru Rural District on 24 Sep 2020 which is a cost effective system of weed management.

Department of Agricultural Extension, CoA, GKVK, Bengaluru organised Field Day on ML 365 variety of ragi and BRG 5 redgram, MAH 14 -5 maize and HA 4 Hebbal Avare under the project 'Establishment of Climate Smart Villages' in nine selected villages of southern districts of Karnataka in collaboration with KVKs, Colleges and Department of Agriculture.

US PATENT FOR REDUCING MENOPAUSAL SYMPTOMS

US Patent (US 9,855,308 B2) is granted for 'Composition for amelioration of peri- and post-menopausal symptoms and a US Patent for reducing Menopausal Symptoms process for producing the same' with Inventors viz., Dr S. Shamshad Begum, Assistant Professor, Department of Food Science and Nutrition; Dr K. Geetha, Professor and Scheme Head, AICRP (F&N); Dr M. Vasundhara, former Professor of Horticulture and Dr S.V. Suresha, Coordinator, Bakery Training Unit and Comptroller from UAS, Bengaluru (along with the members of Akay Flavours and Aromatics and Jayadeva Institute of Cardio Vascular Sciences and Research) under the project

entitled 'Dietary intervention to manage menopausal symptoms - A nutritional and clinical study'. The project was sponsored by Akay Flavours and Aromatics, Kerala to UAS, Bengaluru.

APPRECIATION CERTIFICATES

AICRP on Forage crops, ZARS, Mandya was awarded appreciation certificate for the team work at National group Meeting – *Kharif* 2020 for the development of Production Technologies from the Project Co-ordinator, AICRP on Forage Crops-IGFRI-Jhansi.

RECOGNITIONS /AWARDS CONFERRED ON FACULTY AND STUDENTS

Dr Nataraja N Karaba, Professor, UAS Bengaluru was awarded INSA teachers award 2020 by Indian National Science Academy, New Delhi

SCIENCE WEEK 2020: PG STUDENTS' SYMPOSIUM

Directorate of Post Graduate Studies, UAS Bengaluru organised UAS-B Science Week-2020 from 25-28 Aug 2020 through Online. Dr R. C. Agrawal, DDG (Education) and National Director, NAHEP, ICAR, New Delhi inaugurated the event and he complemented the University for organizing the event virtually and emphasized other SAUs to follow the footsteps. Dr Deepak Pental, former Vice-Chancellor, University of Delhi delivered the inaugural lecture. Dr S. Rajendra Prasad, Vice-Chancellor, UAS-B presided over the function. Dr N. Srinivasa, Dean -PGS gave a brief note about the Science Week and its nomenclature. Lead talk was delivered by Dr Ashok Dalwai, IAS, Chief Executive Officer, National Rainfed Area Authority (NRAA), Ministry of Agriculture and Farmers' Welfare, New Delhi on Science for Society. In total, 77 Ph.D. students gave oral presentations through online. A session on inviting proposals of Innovative Ideas/Concepts/Fantasies for 'Start-Ups' in agriculture and allied sectors was also held.

KRISHI MELA 2020

University of Agricultural Sciences, Bengaluru organized *Krishimela* from 11-13 Nov 2020 at GKVK, Bengaluru in both online and offline mode following all the guidelines issued by the state and center and also World Health Organization. Demonstration of newly released technologies and different varieties of crops was the main attraction during the mela apart from small scale exhibition stalls displayed by UAS, Bengaluru and Indian Institute of Horticultural Research, Hessaraghatta, Bengaluru.



Taluk level, District level and State level awards conferred to farmers/farm youth of ten southern districts of Karnataka under the jurisdiction of UAS-B during the Krishimela-2020.



Farmers, students, officials and general public visiting the demonstration plots during the UAS-B Krishimela-2020.

District level best farmer and farm women awards; Taluk level farm youth awards and State level awards to farmers of ten southern districts of Karnataka under the jurisdiction of UAS-B were conferred during the *Krishimela*. Consultancy services were also provided to farmers and youths through online and offline. Over 92,000 beneficiaries covering farmers, students, officials and general public were benefited by the online *Krishimela* through various mass media like Facebook, Twitter and You Tube.

54TH CONVOCATION

The 54th Convocation of University of Agricultural Sciences, Bengaluru was celebrated on 28 Nov 2020 both online and off line. Shri B.C. Patil, Minister of Agriculture, Government of Karnataka and the Pro-Chancellor of the University awarded the degrees. In total, 986 students were awarded

degrees during the convocation of which 638 were Bachelor's Degrees, 280 Master's Degrees and 68 Doctoral Degrees. As many as 121 Gold medals and 22 Donors Gold Medal Certificates



Shri B.C. Patil, Awarding the Degrees to the Graduates during 54th Convocation



Awards were conferred on Best Scientists and service personal on the occasion

were awarded to various degree programmes consisting of 38 University Gold Medals, three UG, five PG Campus Gold Medals and 75 Donors Gold Medals.

Dr Kailasavadivoo Sivan, Chairman, Indian Space Research Organization, Bengaluru, delivered the Convocation Address virtually.

UNIVERSITY OF AGRICULTURAL SCIENCES, DHARWAD (KARNATAKA)

NATIONAL WEBINAR: INNOVATIVE ENTERPRISES IN FOOD SECTOR

A webinar on "Innovative Enterprises in Food Sector" was organized on the eve of the World Food Day celebration, on Oct 16, 2020, jointly by Department of Food Science and Nutrition, Nutrition Society of India (Dharwad Chapter) and ICAR-NAHEP-IDP, at UAS Dharwad. Dr Kalidas Shetty, Founder Director of Global Institute of Food Security and International Agriculture (GIFSIA), North Dakota, USA, opined that there is a dire need to give emphasis on loco-traditional food rich in bioactives and phyto chemicals with climate



resilient solution. Dr Vijaya Khader, Former Dean (H.Sc.), PJTSAU, Hyderabad, spoke about intervention of viable technologies for food, health, livelihood and nutritional security. Dr Mahadev B. Chetti, Vice-Chancellor, UAS, Dharwad, in his presidential address opined that the country has attained food security, and now it is essential to attain nutritional security.

WORKSHOP ON E-GOVERNANCE FOR EFFICIENT AND EFFECTIVE ADMINISTRATION

A one-day workshop on office procedures at UAS, Dharwad was organized under National Agricultural Higher Education Project (NAHEP-IDP) on 14 Oct 2020. Chief guest Shri Rajendra Kumar Kukreja, Agriculture Education Officer, ICAR, New Delhi, speaking as chief guest, expressed that by following suitable office procedures different activities of the office can be completed efficiently, effectively and quickly. Further, he suggested the University staff to adopt e-Governance, so that all the activities of the office can be quickly attended. The workshop was chaired by Dr Mahadev B. Chetti, Vice-Chancellor, UAS, Dharwad. The programme was organized by Dr B. N. Aravind Kumar under the guidance of IDP coordinators. Officers and staff of different departments participated in the programme.

WORKSHOP ON START-UP OPPORTUNITIES IN HI-TECH VEGETABLE PRODUCTION

A one-day workshop on “Start-up opportunities in Hi-Tech vegetable production” under NAHEP was organized on 13 Oct 2020 at UAS, Dharwad under Institutional Development Plan. Speaking on the occasion Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad, opined that Hi-Tech horticulture has potential to boost the Indian economy especially during of COVID-19 situation that affected national income.



Horticultural crops contribute about 30% to GDP from merely 13% of total cultivable area and have a high potential for value addition and foreign exchange earnings, he added. Dr Praveen Bhat, the CEO, I&B, Bengaluru, expressed that there are ample opportunities for startups in horticulture and stressed for Hi-Tech production of horticultural crops under cover as well as in open condition adopting modern technologies in horticulture.

A NATIONAL WEBINAR ON ENTREPRENEURSHIP IN EARLY CHILDHOOD CARE AND EDUCATION

A national webinar on Entrepreneurship in “Early Childhood Care and Education” was organized under NAHEP-IDP project on

5 Oct 2020 at UAS, Dharwad. Dr S. K. Srivastava, Director, ICAR-CIWA,



Bhubaneswar, Odisha, in his inaugural address opined that early childhood, defined as the period from birth to eight years, is the time of remarkable growth with brain development at its peak, wherein during this stage, children are highly influenced by the environment and hence maximum care should be exercised in bringing up and for their education. Dr Mahadev B. Chetti, Vice-Chancellor, during his presidential address expressed that nutrition of the children would influence the early childhood and help in making a good and strong society. Dr Vishala Patnam, Rtd, Professor, said children are the supreme assets of the nation and Early Childhood Care and Education are the pillars of Atma Nirbhar Bharat. Dr Sujata Gupta Kedar, Faculty of the department of Human development, Mount Carmel College, Bengaluru, and Dr M. S. Rajalakshmi, Department of ECEA, Central Institute of H.Sc., Bengaluru, also expressed their views on early childhood education and entrepreneurial opportunities.

WEBINAR ON OPPORTUNITIES AND INNOVATIONS FOR MICRO FOOD PROCESSING ENTERPRISES

A webinar on Opportunities and innovations for micro food processing enterprises was organized for faculty of farm agricultural Universities, students, entrepreneurs, self-help groups, food producers and Farmer Producer Organization (FPO) on 27 Oct 2020 under



NAHEP-Institutional Development Plan, UAS, Dharwad. Dr Anandharamakrishnan, Director, IIFPT, Tanjavur and the nodal institute for Prime Minister Food Processing Enterprises - PMFPE Scheme under Atma Nirbhar Bharat, expressed that secondary agriculture with value addition is necessary for economic and nutritional security. Shri Shivaraj B., Managing Director, KAPPEC, the Karnataka State implementing agency of PMFPE scheme, in his keynote address explained in detail about the schemes, which help food processors and said that there is a target to establish about 11,000 processing units in Karnataka during next five years period. Dr Mahadev B. Chetti, Vice-Chancellor, UAS, Dharwad, in his presidential address expressed that there is ample scope to start food processing units, as India is blessed with variety of fruits and vegetables and advised food technology students to become self-employed and generate employment opportunities. Dr D. V. Chidanand, IIFPT Scientist, Tanjavur (Tamil Nadu) briefed on guidelines, mode of operation, and suitable technologies for the produce grown locally and identified under One District One Product (ODOP), for micro food processing enterprises. Dr Umesh Hebbar (Chief Scientist, CFTRI, Mysore) and Dr A. Savitri (Former Regulatory Head, Britannia, Bengaluru) explained about the formalities involved in getting registered and obtaining a license. Mr. Manjunath Patil, Head, Asia- Pacific region, Little Caesar's USA, stressed on the importance of packaging, branding, labeling and marketing

of food processing for better sales and expansion. Shri Mayur Kamble, DDM (NABARD) Dharwad, elaborated on preparation of detailed project report for availing bank loans/ financial assistance. Nearly 350 persons participated online.

WEBINAR ON EMERGING TREND AND CHALLENGES IN MARKETING OF AGRO BASED PRODUCTS

COVID-19 though has created problems in marketing of agro-based product but it has also created many opportunities to export agro-based products to many countries especially to middle east because they require more product items said Dr Ramesh Mittal, Director, NIAM (National Institute of Agricultural Marketing), Jaipur. Students should look around for the opportunities to start agro-based industries. Dr Mittal expressed that at present the export of agro-based product from India is low, it can be doubled if students come forward and grab the opportunities. Another speaker Vice President of Godfrey Phillips India Ltd, Mr. Jitendra Kumar expressed that the agriculture graduates should think of starting an enterprise, they can simply get involved in marketing of agro-based products, because farmers are producing quality products. CEO, Freshboxx, Mr. Rohan Kulkarni gave detailed note of the potential for marketing of fresh fruits and vegetables. The Webinar was organized under IDP-NAHEP on 7 Nov 2020 at UAS, Dharwad. The programme was organized by Dr S. S. Dolli and Dr Vilas Kulkarni IDP Officers, Dr P. U. Krishnaraj, Dr B. N. Arvind kumar, Dr B. K. Naik were present and conducted the webinar.

AGRICULTURAL MINISTER INTERACTED WITH STUDENTS

There is a need to convert the minds of the farmers towards crop diversification and adoption of improved technology, said the Agricultural Minister, Karnataka, Shri B. C. Patil while interacting with 293 final year B.Sc.

(Agriculture) students who are undergoing Rural Agriculture Work Experience (RAWE) in 110 Raitha Samparka Kendra (RSK) in 28 districts of Karnataka.

Shri B. C. Patil expressed that farmer should draw their attention towards soil and water conservation and follow organic practices to reduce cost of cultivation and increase the productivity.

Farmers depend more on input dealers and many a times are misguided. Hence, students should



Conversion of farmers mind towards diversification of crops is the need of the hour – Agriculture Minister advised Students

visit farmers' field and educate farmers on improved technology. He interacted with students during his visit as a chief guest of 34th Foundation Day of UAS, Dharwad. He was referring to a recently started programme called "Raitha Sanjeevini" an emergency vehicle to meet farmers' needs and solve their problems, started in Koppal district. UAS, Dharwad Vice-Chancellor, Dr Mahadev B. Chetti introduced the Rural Agriculture Work Experience where students are placed in a village for 8 weeks, 2 weeks Agri clinics and remaining time attached to institutions and project preparations. The RAWE Programme Co-Ordinator Dr S. S. Dolli conducted the session.

WEBINAR ON AGRO-TEXTILES FOR SMART FARMING AND ENTREPRENEURSHIP DEVELOPMENT

Vice-Chancellor Dr Mahadev B. Chetti during his presidential address in the webinar on "Agro-textiles



A Webinar on Agro-textiles for Smart Farming and Entrepreneurship Development' was Organized

development" organized under NAHEP-IDP Project at UAS, Dharwad on 10 Dec 2020, highlighted that more than 5,000 Agri start-

ups are aimed to be initiated by the RKVY-RAFTAAR Project in state and nearly 50,000 start-ups in the country. Agro-textile may play a important role in increasing the crop performance for doubling farmers income by 2022.

Dr P. G. Patil, Director, Central Institute for Research on Cotton Technology (CIRCOT), Mumbai, inaugurated the webinar and expressed that Agro textile products are helpful in protected cultivation to improve productivity, quality and increase the shelf-life of the product. Hence, awareness among users and entrepreneurship in agro textiles is need of the hour.

Dr Ravi Singh, Scientist D, CoE on Agrotech, SASMIRA, Mumbai; Dr Laxmikanta Nayak, Principal Scientist, National Institute of Natural Fiber Engineering and Technology (NINFET), Kolkata; Dr Vigneshwaran and Principal Scientist, ICAR, CIRCOT, Mumbai, were the experts who spoke on fundamentals of agro-textiles, productivity, biodegradable agrotech and the role of agro based fibers for smart farming and entrepreneurship development.

The webinar was organized by the Department of Textile and Apparel Designing, CCS, UAS, Dharwad.

SKILL DEVELOPMENT COURSE FOR FIELD VETERINARIAN AND INDUSTRY PERSONNEL" ORGANIZED AT COLLEGE OF AGRICULTURE, VIJAYAPUR

The "Skill Development Course (Online) for Field Veterinarian and Industry Personnel"

organized at College of Agriculture, Vijayapur under the World Bank assisted project ICAR-NAHEP-Institutional Development Plan (IDP).



"Skill Development Course (Online) for Field Veterinarian and Industry Personnel" organized at College of Agriculture, Vijayapur

In his inaugural address Prof. S. Yathiraj, Chief Executive, Lakeside Veterinary Hospital & Research Centre, Bengaluru, opined that skill development in various fields is needed for field veterinarians and skill is like a bridge between

education and business also. Vice- Chancellor, UAS, Dharwad, Dr M. B. Chetti, gave a brief note on the various activities taken up under the project and described the holistic approach of the project to create ambient environment in the University. He also shared his experience with renowned Veterinary Scientists and lauded their service to the society in his introductory remarks.

Senior Veterinary Officer, Government of Karnataka, Dr Annarao Patil, spoke in length on different veterinarian skills required for commercial goat farming. He pointed that goat farming is the low investment venture business with assured income especially in dry land areas. Dr M. Sankar, Senior Scientist, Division of Parasitology, IVRI, Bareilly, gave an elaborative talk on management of anthelmintic resistance and its practical approaches at field level highlighting economic importance of the issue. Dr Kesavan Manickam, Scientist, ICAR-IVRI, Izatnagar, explained the prudent use of antimicrobials in bovine practice. He focused on maximizing the therapeutic effect of the antimicrobial agents while minimizing the development resistance in his talk.

TREE PLANTING PROGRAMME

Tree planting programme was organized on 10 Oct 2020 at UAS, Dharwad under NAHEP-IDP.



Speaking on the occasion Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad opined that increasing the green cover by planting forest and fruit trees is the best way to address global climate change impacts, which result in greenhouse gas concentration and affect agriculture. Further, he added that this year two acres of plantation is being planned for planting 700 guava, 200 curry leaf and 100 drumstick saplings under high density plantation to protect environment under green initiatives. *Plumeria pudica*, Bougainvillea and Custard apple saplings were planted all along

the roadsides from the official residence of Vice-Chancellor to International Guest House in the main campus premises. Scientists, officers and staff of the university actively participated in fruit tree planting.

AWARENESS PROGRAMME: WAY FORWARD FOR GREEN INITIATIVE- CONSERVATION OF ENVIRONMENT AND ECOLOGY

An awareness programme on “Way Forward for Green Initiative: Conservation of Environment



and Ecology” was organized on 21 Oct 2020 under Institutional Development Plan at UAS, Dharwad. Shri Suresh Heblikar, Actor, Director and Environmentalist, as chief guest on the occasion, expressed that awareness on environment and ecology is the need of the hour for sustainable development and urged youth to make environment conservation a passion and opined that environment and ecology are the key parameters for sustainable development. Dr Mahadev B. Chetti, Vice-Chancellor, UAS, Dharwad in his presidential address expressed that due to the pressure of over population, the biophysical environment is being degraded and opined that environmental awareness is an integral part of the movement’s success and economy. He also said that University will develop Agro Ecosystem Tourism Park for recreation and knowledge to young children and a proposal is being sent to the Government to include agriculture as one of the subjects at the school level to create awareness about agriculture.

TRAINING PROGRAMME ON FARM JOURNALISM FOR EFFECTIVE TRANSFER OF TECHNOLOGY

Boom in today’s information technology is the result of printing press invented by German goldsmith and inventor Gutenberg, informed Dr Ramesh Babu Director of Extension, UAS, Dharwad. He was speaking on the occasion of

inauguration of a five-day virtual training programme “Farm



Dr Ramesh Babu Inaugurated the Training Programme on Farm Journalism for Effective Transfer of Technology.

Journalism for effective Transfer of Technology” organized by SAMETI(N), UAS,

Dharwad for the officers of development department of seven districts of North Karnataka. He appealed to the participants to make the best use of the opportunity and master the art of writing articles related to agriculture. Around 50 officers of different development departments of North Karnataka like agriculture, horticulture, animal husbandry, forestry, sericulture and agriculture related subjects, participated in the programme.

ACADEMIA- INDUSTRY INTERFACE CONCLAVE FOR FUTURE FARMING

Agricultural Production and Cultivated area has increased by 25% during Corona pandemic



Academia- Industry Interface Conclave for Future Farming

period and reverse migration is one of the reasons for increased production expressed Dr S.. Bhaskar Assistant Director General (AAF & CC), ICAR, New Delhi, while inaugurating one-day national workshop on Academia- Industry Interface Conclave for Future Farming organized under World Bank funded NAHEP-IDP project at UAS, Dharwad on 27Nov 2020. India became number one in vegetable and fruit production with 315 million tonnes of production in horticulture, and 298 million tonnes of crop production, and exporting plenty of farm produce during the current scenario, he further added. He appealed to make the Western Ghats organic and improve productivity using bio technology

and grow climate resilient crops and follow climate smart Agriculture.

Vice-Chancellor, Dr M.B. Chetti, during his presidential address opined that proper storage of production is very important because we are producing much and not able to store properly. He advised student to think of start-up and entrepreneurship in storage and value addition as there is ample scope for food industry. He opined that Academia Industry Interface will create platform to bring entrepreneurs, students and alumni closer. The Dr Venkatesh Kulkarni, advisor Nath Bio-Genes India and Aleenah Agriculture Services Co. Ltd, Sudan, shared his experience on opportunities in seed industry for domestic and export market. Another resource person, Mr. Mahesh Patil, founder Director NVIECO Agri Pvt. Ltd, explained opportunities on agro tourism and rural tourism. Workshop was organized by Dr B.N. Arvindkumar and Dr S. S. Dolli. Dr K.V. Ashalata introduced the IDP project to students.

CELEBRATION OF NATIONAL FARMERS' DAY

Farmers in India are like Family Gods, and for agriculture to sustain as primary



Celebration of National Farmers' Day

occupation in India each family should devote at least one family member for agriculture, requested Chairman of Organic Farming Mission of Karnataka Dr A. S. Anand. He was speaking as chief guest of National Farmers' day celebration at UAS, Dharwad organized by Directorate of Extension in association with World bank funded Institutional Development Plan (IDP) and Krishi Vigyan Kendra, Dharwad on 23rd Dec, 2020. He said to commemorate the birthday of the Late Shri Choudhary Charan Singh, the 5th Prime Minister of India celebration of Farmers' day was started in 2001. More than anything else farmers need remunerative price for the produce and a honorable life. Famers are

relentlessly toiling in the field to feed the nation without thinking of the reward. Hence, the farmers' song written by National Poet Shri Kuvempu is applicable today also. If at all agriculture is thriving till today in the country it is definitely because of the women engaged in agriculture.

Presiding over the function, Vice-Chancellor, Dr Mahadev B. Chetti illustrated the activities undertaken by the University for the welfare of the farmers. He highlighted that UAS, Dharwad started – the Organic Farming Institute for the first time in the country; Raita Chetana Sahaya Vani to respond to the difficult situation faced by the farmers; and Agri War Room to provide marketing facility to the farm produce during Global Pandemic COVID-19. University is engaged in– supplying quality seeds and other inputs; empowering rural youth through Capacity Building programmes in establishing agri-enterprises; and supplying books/booklets/ technical bulletins regarding agricultural technologies to the farming community on subsidized rates. Each scientist has been assigned with One RSK to act as contact scientist. are supplied Every year in the mega Krishi Mela innovative farmers and farm women are Honored.

THE UNIVERSITY STANDS AT FIRST PLACE IN KARNATAKA STATE IN ICAR RANKINGS

The University of Agricultural Sciences, Dharwad secures 9th Rank amongst all the Agricultural Universities in the Country announced by the Agricultural Education Division of the Indian Council of Agricultural Research (ICAR), New Delhi.

The ranking status of State Agricultural Universities



(SAUs), Central Agricultural Universities (CAUs) and ICAR Deemed-to-be Universities (DUs) was released in the Annual Conference of Vice-Chancellors of Agricultural

Stands at First place in Karnataka State in ICAR Rankings

Universities and Directors of ICAR Institutes on 05 Dec 2020 in the presence of Shri Parashottam Rupala and Shri Kailash Chaudhary, Union Ministers of State for Agriculture and Farmers' Welfare, and Dr Trilochan Mohapatra, Secretary (DARE) & DG, ICAR, New Delhi.

The ranking of the Universities is based on the performance of the Universities on teaching outcome, research, extension and outreach activities including seed production, soil analysis, revenue generation, inter-institutional collaborative projects, faculty and student exchange programmes, number of enterprises/start-ups promoted by the University, public-private partnerships, and employability of students. Among the six Farm Universities in Karnataka, UAS, Dharwad ranks FIRST position, consecutively, for the 2nd time.

UNIVERSITY OF HORTICULTURAL SCIENCES, UDYANAGIRI, BAGALKOT

ADVANCES AND FUTURE OUTLOOK IN BIOTECHNOLOGY FOR SUSTAINABLE PRODUCTIVITY

The international E-conference on 'Advances and Future outlook in Biotechnology and Crop Improvement for Sustainable



Dr. Tilak Raj Sharma, inaugurated and delivered inaugural address

Productivity' was organised for four days from 24 to 27 Nov 2020 by Dr B Fakrudin, Organising Secretary, at the Department of Biotechnology and Crop Improvement, University of Horticultural Sciences, Bagalkot.



Dr K. M. Indires, and Officers Released the Abstract Book

The conference was multidisciplinary in nature with wide spectrum of themes covering plant genetic resources, plant breeding, genetic engineering, molecular biology of biotic and abiotic stresses, bioinformatics and data science application, seeds science etc. Dr G.S.K. Swamy, Dean, College of Horticulture, Bengaluru welcomed the dignitaries and delegates and Dr B. Fakrudin, Organising Secretary, briefed about the conference.

Dr Tilak Raj Sharma, Deputy Director General, Crop Sciences, ICAR, New Delhi inaugurated the conference and Dr K.M Indires, Vice-Chancellor and officers of the University released the abstract compendium of the conference. Dr Tilak Raj Sharma, delivered inaugural conference keynote talk on “Application of Biotechnology in Achieving Food and Nutritional Security” and he pointed out the importance of biotechnology in achieving food sustainability and nutritional security in India, which would be a step forwards towards ‘*Athma Nirbhar Bharat*’ in agri – horticulture. Dr M. R. Dinesh, Director of ICAR-IIHR, Bengaluru graced the occasion. Dr S. B. Dandin, Former Vice-Chancellor, UHS, Bagalkot, was the guest of honour.

Dr K. M. Indires, Vice-Chancellor, presided over the inaugural function.



Vice chancellor and the team of officers in the virtual conference

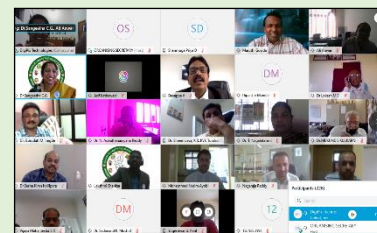
The four days of e-conference had brainstorming technical sessions with 11 key note addresses and 36 invited talks by eminent scientists, distinguished professors and entrepreneurs from all over the world --- Missouri, Georgia, Alabama, Canada, Philippines, Malaysia, Sweden, Peru -, and many of our Indian scientists shared their knowledge and experience with interactive discussion. A total of 580 abstracts were accepted. A total of 60 oral presentations and 275 posters were presented in the conference.

INTERNATIONAL E-CONFERENCE ON PLANT DISEASE

International E-Conference was organized on “Multidisciplinary Approaches for Plant Disease Management in achieving Sustainability in Agriculture” from 6-9 Oct 2020 by Prof. V. Devappa and his team, Department of Plant Pathology, College of Horticulture, Bengaluru, Karnataka.



Altogether, 1758 participants from 110 different Universities/Institutions all over the world registered for the conference. Delegates from India, USA, Germany, Australia, Nigeria, Sri Lanka, Kenya, UK and Indonesia etc. delivered the keynote and invited talks on different thematic areas. Around 300 abstracts were received for oral and poster presentations under various themes.



Dr K. M. Indires, Vice-Chancellor, University of Horticultural Sciences, Bagalkot was the Chief Guest for the event. Dr Tilak Raj Sharma, Deputy Director General (Crop Sciences), ICAR, New Delhi inaugurated the E- conference and delivered the inaugural address. Dr M. K. Naik, Vice-Chancellor, University of Agricultural and Horticultural Sciences, Shivamogga has delivered the keynote address and Dr R. C. Jagadeesha, Dean, College of Horticulture, Bengaluru has proposed the presidential remarks.

Dr T. B. Alloli, Registrar, UHS, Bagalkot participated in the valedictory programme and congratulated the team for successful organization of International E-conference.

VIRTUAL WORKSHOP ON DRY LAND HORTICULTURE TECHNIQUES FOR DEVELOPMENTAL DEPARTMENT OFFICERS

Directorate of Extension, UHS, Bagalkot in association with UAS, Dharwad, organised a three-day virtual workshop on “Dry land Horticulture Techniques” from 18-20th Nov 2020 for officers of state department. The programme was inaugurated by Dr K. M. Indires, Vice-Chancellor of UHS, Bagalkot through online, and he shared his views. He aptly appreciated for choosing relevant topic as 60% of Indian agriculture is rainfed. He urged the trainees and organizers to include horticulture holistically and sustainably in the state and help the farmers to double their income. Dr Y. K. Kotikal, Director of Extension, explained about the scope, opportunities and challenges of dry land horticulture. Dr Shashikumar, S. Extension Leader channelized the entire programme in highly efficient manner by arranging the guest lecturers for three days regularly.

TRAINING ON INSECT PEST MANAGEMENT

A 10-day National Level Online Training on “Recent Advances in Entomology – New Dimensions to Invigorate the Insect Pest Management” was inaugurated on 07 Dec 2020 at College of Horticulture, Bidar, Karnataka. The occasion was graced by dignitaries Dr K. M. Indires, Vice-Chancellor, University of Horticultural Sciences, Bagalkot, Karnataka Dr T.B.Allolli, Registrar, UHS, Bagalkot, Dr Venkateshalu, Professor, UHS,

Bagalkot and Dr Ravindra Mulge, Dean, CoH, Bidar.

The beneficiaries of the training were the 640 participants.

Organising team headed by Dr Satyanarayana. C, Assistant Professor, CoH, Bidar and Organising Secretary of the training programme selected the expert speakers from the premier institutes to engage the training sessions from 07 to 18 Dec 2020.

Various session conducted viz. i) eSAP – An ICT solution for crop health management by Dr A. Prabhuraj, Professor, UAS, Raichur; (ii) Characterisation of gut microbes/ endosymbionts in insects by Dr S. Subramanian, Principal Scientist, IARI, New Delhi; (iii) Integrated taxonomy and its role in agriculture and diversity studies by Dr Ankita Gupta, Senior Scientist, NBAIR, Bengaluru; (iv) Status of augmentative biological control in India: Challenges and Opportunities by Dr Richa Varshney, Scientist, NBAIR, Bengaluru; v) Development of Nano Pesticides for crop pest management by Dr Ravikumar Hosamani, Assistant Professor, UAS, Dharwad; (vi) Recent trends in vegetable pest management by Dr J. B. Gopai, Professor, UHS, Bagalkot; (vii) Impact of thermal stress on physiology of insects by Dr Sagar. D, Scientist, IARI, New Delhi; (viii) Insect semiochemicals for crop pest management by Dr Suresh M. Nebapure, Scientist, IARI, New Delhi; (ix) Impact of climate change on transgenic crops *vis – a – vis* insect pest and their management by Dr A. G. Sreenivas, Professor, UAS, Raichur; (x) Application of Push-pull Technology by Dr Venkateshalu, Professor, UHS, Bagalkot; (xi) Recent trends in fruit pest management by Dr K. Thulasiram, Senior Scientist and Head, KVK, Kolar; (xii) Recent advances in insect plant interaction for the pest management by Dr Satyanarayana. C, Assistant Professor, UHS, Bagalkot were engaged to enlighten the participants regarding the recent developments in the field of entomology.



Inaugural ceremony



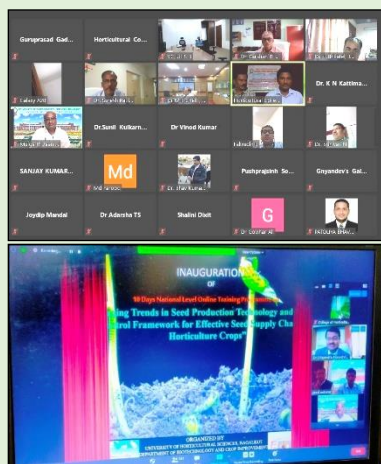
Organising team engaged conducting Online Training

NATIONAL LEVEL ONLINE TRAINING PROGRAMME ON “EMERGING TRENDS IN SEED PRODUCTION TECHNOLOGY AND QUALITY CONTROL FRAMEWORK FOR EFFECTIVE SEED SUPPLY CHAIN OF HORTICULTURE CROPS”

College of Horticulture, Bidar a constituent College of UHS, Bagalkot organized a 10-day national level online training programme from 28 Dec 2020 to 06 Jan 2021 on “Emerging trends in seed production technology and quality control framework for effective seed supply chain of horticulture crops”. The programme was inaugurated on 28 Dec 2020 by Dr Rajendra

Prasad, Vice-Chancellor, UAS, Bengaluru. In his inaugural address he emphasized on the scope for the quality seed production and opportunities. He mentioned that India has witnessed

tremendous increase in horticulture production over the last few years due to adequate supply of quality seed material. During the training programme total of 27 lectures were delivered by eminent speakers from both public and private sectors. Around 1,400 participants enrolled in the training programme with representation from different states of the country and few international participants from the countries like Bangladesh, Tanzania, Kuwait, Italy and Germany. Dr K.M. Indires, Vice-Chancellor of UHS, Bagalkot presided over function in the presence of organizing chairman Dr Ravindra Mulge, Dean, CoH, Bidar and organizing secretaries Dr Dhananjaya P. and Dr Ashok Surwenshi, College of Horticulture, Bidar.



VALEDICTORY FUNCTION OF SKILL DEVELOPMENT TRAINING PROGRAMME

Valedictory function of a 30-day skill development on Post harvest handling of Agricultural and Horticultural produces, training programme was



organized at ICAR, KVK, Kolar in collaboration with CEDOK on 4 Dec 2020. Madhu M.N., Joint Director, CEDOK, highlighted the importance of self-employment and appreciated the organizers for hands on training in the preparation of 103 different value added products like pickles, RTS, papads, chats etc. apart from hygiene practices, branding, DPR preparation, FSSAI license information, GST information, State and Central government schemes regarding food processing, etc. Smt Gayatri D., Deputy Director, Department of Horticulture explained about Horticulture departmental schemes regarding food processing sectors to the participants. Dr T.B. Basavaraj, Associate Director of Extension, (South), UHS, Bagalkot opined that Kolar will become a hub for the tomato processing industry.

CELEBRATION OF KISAN MAHILA DIWAS AT BAGALKOT

University of Horticultural Sciences, Bagalkot celebrated the “Mahila Kisan Diwas” on 15 Dec 2020. The Chief Guest, Dr K. M. Indires, Vice-Chancellor of University, highlighted the major

contributions of farm women’s role in agriculture in achieving the food security and eradicating rural poverty. The Guest of Honor, Dr N. Basavaraj, Director of Research, UHS, Bagalkot, highlighted that women’s are not only meant for maintaining the family but their role in farming is tremendous since the agriculture



has started and they are contributing in conserving the agro-biodiversity. He suggested celebrating the programme in a big way providing the opportunities for participation of a large number of women farmers for sharing their experiences to enlighten the other women farmers. Dr Y. K. Kotikal, Director of Extension UHS, Bagalkot, urged the women farmers to develop themselves as entrepreneurs for making the agriculture more profitable and making India Atmanirbhar. During the programme, Dr D. R. Patil, ADRE, UHS, Bagalkot proposed vote of thanks.

12TH FOUNDATION DAY

Twelfth Foundation Day of the University of Horticultural Sciences, Bagalkot was celebrated on 23 Nov 2020 through online and limited faculties of the University with offline by



Dr K. C. Narayana Gowda,
Delivered the Inaugural Speech.

following Standard Operating Procedures of COVID-19. Dr R. C. Agrawal, Deputy Director General of Indian Council of Agricultural Research, New Delhi as chief guest of the function joined the Programme through online. The Minister of Horticulture, Sericulture and Municipal



University officials Board of Officers of the university, Teaching and non teaching Staff

Administration of Government of Karnataka, Dr K. C. Narayana Gowda, Pro-Chancellor of the University, inaugurated the function online. Dr T. Vasanth Kumar, Technical Director, Green Life Science Technology, Mysuru served as offline guest for the function. Dr K. M. Indires, Vice-Chancellor of the University presided over the function. Dr Y. K. Kotikal, Director of Extension, UHS, Bagalkot welcomed all the

guests who joined the programme both offline and online.

Dr K. C. Narayana Gowda, in his inaugural speech, pointed out that the University has to- produce quality seeds and planting material, release new varieties and hybrids, develop new technologies, provide marketing information, ensure postharvest and processing technologies, and take steps to make these to reach the farmers for doubling their farm income. Vice-Chancellor of the University congratulated 59 students who secured JRF's and SRF's in ICAR exams and also highlighted about 13 different varieties developed by University and received "Best Profile Registration Award" for Southern Region under Cera for the year 2020. In respect of outreach activities during the COVID-19 situation, University has established COVID War groups for addressing the field problems of the farmers and for effective transfer of extension programmes.



Dr K. M. Indires, Presided Over the Function.

Dr R. C. Aggarwal, Deputy Director General, Indian Council of Agricultural Research, New Delhi,, expressed his gratitude's for joining the programme through online and shared his views. He appreciated the university students for getting good number of JRF and SRF Scholarships and for establishing incubation centres. Adding he said, horticulture being important component helps the farmers for doubling their farm income. He suggested to adopt NAHEP, READY programmes and virtual classes for students and farmers for their upliftment.

Dr Vasanth Kumar, T., Technical Director, Green Life Science Technology, Mysuru gave call to teachers and researchers to become Plant Doctors and help the needy farmers. The programme was compared by Dr Shashikumar, S., Extension Leader, while the Registrar of the University Dr T. B. Allolli proposed vote of thanks to conclude the programme.

KISAN GHOSTI PROGRAMME AT HEEU, VIJAYAPUR

Kisan Ghosti programme was organized by HEEU,

Vijayapur (T) in collaboration

with Agriculture

Department, ATMA and College of Agriculture Vijayapur at Gho Raksha Kendra Kaggod on 24 Nov 2020. The programme was inaugurated by Dr Devanand Chavan, MLA, Nagathan by watering the plants. He urged farmers to make their own FPO's so that they can get good returns, which will increase their socio economic status. Sanganbasappa Sajjan, Pratiba Patil, D. W. Rajashekar, Dr S B. Kalagatagi, Prakash Chavan, M B. Pattanashetty were present in the programme. Dr A. M. Nadaf and Mr Siddanna Thoke delivered lecture on Horticultural crops and interacted with the farmers.



key e-posters which were presented in depth & details encompassing various key portfolios of world soil day celebration being more focused towards raising awareness of the importance of maintaining healthy ecosystems & human well-being by addressing the growing challenges in soil management, fighting soil biodiversity loss, increasing soil awareness, encouraging governments, organizations, communities and individuals across the nation & globe to commit towards proactively improving soil health.

The qualitative and impact-full oral presentation of e-poster by Dr M. L. Gaur, Professor, BACA, AAU, Anand on 'Enlightening livestock water productivity under water stressed situations: A way forward' was highly appreciated and interacted across renowned experts (soils and NRM based) and participants.

DUPONT NUTRISCHOLARS AWARDS

DuPont Nutrition and Health announced the third edition of its pan India Food Science Program titled 'DuPont Nutri Scholars Awards' (DNA) in



the month of September, 2020. The DuPont Nutri Scholars Award ran in two phases ending September 15 and Nov 26 this year respectively. The winners and runners-up for each category of DNA 2020 were declared at the virtual award ceremony on 11 Dec 2020. The team from SMC College of Dairy Science was selected as the winner of the '4 pm Healthy Snacks Category'. The winning project title was "Crackly mung crispies". The winning team in this category received a prize of Rs 50,000. The team members were Dr Suneeta Pinto (Mentor), Ms Mahima Malik (Team leader), Mr Badrish Rawal and Mr Harshil Bhatt, students of 4th Semester B. Tech. Dairy Technology.

AWARDS

ANAND AGRICULTURAL UNIVERSITY, ANAND

DR M. L. GAUR, PROFESSOR BAGGED THIRD BEST PAPER AWARD AMONG ORALLY ON-LINE PRESENTED E-POSTERS

Under COVID-19 timeframe the World Soil Day 2020 and its campaign 'Keep Soil Alive, Protect Soil Biodiversity' was nationally celebrated by Soil Conservation Society of India under an innovative National



Certificate of Excellence

e-Poster Olympiad during 4-5 Dec 2020. There were dozens of key note addresses along with 4 marathon kind of quality e-poster sessions with in-depth discussions and interactions. This national Olympiad incorporated around 120

GOVIND BALLABH PANT UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, PANTNAGAR

SCIENTIST AWARDED

Dr Pravendra Kumar, Professor, Soil and Water Conservation Engineering, College of Technology of the university, was awarded 'Best Academy of the Year Award (Male)' at the Second International Academic and Research Excellence Awards 2020 held in Goa. This award ceremony was held online, in which many scientists from around the world participated. Dr Kumar was congratulated by the Dr Tej Pratap, Vice-Chancellor of the University, Dr Alaknanda Ashok, Principal Technology, Dr Akhilesh Kumar Head, Department of Soil and Water Conservation Engineering, and all faculty members for this award.

JUNAAGADH AGRICULTURAL UNIVERSITY, JUNAGADH

BREED CONSERVATION AWARD-2020 (ICAR)



Received the breed conservation award by Cattle Breeding Farm of JAU (Gujarat).

ICAR-National Bureau of Animal Genetic Resources, Karnal, Haryana awarded the "Breed Conservation Award-2020" for Jaffrabadi breed of Buffalo in Institution Category to Cattle Breeding Farm of Junagadh Agricultural University through virtual ceremony on 23 Dec 2020. Dr V. P. Chovatia, Vice-Chancellor, JAU, Junagadh congratulated the scientists of the Cattle Breeding Farm for this prestigious award.

MAHARASHTRA ANIMAL AND FISHERY SCIENCE UNIVERSITY, NAGPUR

LIFE TIME ACHIEVEMENT AWARD TO PROF. (DR) SHARMILA B. MAJEE

Prof. (Dr) Sharmila B. Majee, Professor, Dept. of Veterinary Microbiology, Mumbai Veterinary College, Mumbai received "Life Time Achievement Award" under the aegis of Indian Association of Women Veterinarians (IAWV) during XVI



Prof. (Dr.) Sharmila B. Majee

National Online Conference of IAWV- 2020 held at College of Veterinary and Animal Sciences, Parbhani during 9 to 10 Dec 2020.

SECOND PRIZE FOR POSTER PRESENTATION AWARD TO DR SMITA R. KOLHE

Dr Smita R. Kolhe, Assistant Professor, KNPCVS, Shirwal received 2nd Prize for Poster Presentation Award and Dr Gauri Pande, PG student of Department of Veterinary Surgery, KNPCVS, Shirwal received 2nd prize for Oral Presentation Award under the aegis of Indian Association of Women Veterinarians (IAWV) during XVI National Online Conference of IAWV, Parbhani 2020 held during 9 to 10 Dec 2020.

THIRD BEST RESEARCH PAPER AWARD TO DR S. M. BHOKRE

Dr S. M. Bhokre, Assistant Professor, KNPCVS, Shirwal received third Best Research paper entitled "Effect of inclusion of different levels of *Moringa oliefera* leaf meal on the growth performance of Deccani lambs" in National Virtual Conference on 'Recent advances in management and preventive health care of livestock in India' held at College of Veterinary Science, PVNR, Telangana Veterinary University, Rajendranagar, Hyderabad, Telangana from 10 to 11 Dec 2020.

BEST ORAL PRESENTATION AWARD TO DR VAIBHAV K. LULE

Dr Vaibhav Lule, Assistant Professor, College of Dairy Technology, Warud (Pusad) was awarded the best Oral Presentation award in Young Scientist category during the 4th AMIFOST 2020, International conference organized by Nutrition Society of India, Delhi Chapter and Amity University on 21 Dec 2020.



Dr. Vaibhav Lule

YOUNG RESEARCHER AWARD – 2020 TO DR SARIPUT P. LANDGE

Dr Sariput P. Landge, Assistant Professor, Department of Veterinary and Animal Husbandry Extension Education, Nagpur Veterinary College, Nagpur received 'Young Researcher Award – 2020' for his research paper entitled "Information Needs of Goat Farmers in Nagpur Division of Maharashtra" from the Institute of Scholar's, Bengaluru.



Dr Sariput P. Landge

GLOBAL ICON AWARD – 2020 TO DR K.K. KHOSE AND DR S.N. RINDHE

Dr K.K. Khose, Assistant Professor, Department of Poultry Science and Dr S. N. Rindhe, Assistant Professor, Department of Livestock Products Technology of COVAS, Parbhani are awarded with 'Global Icon Award – 2020' under Global Poultry Academic Award for their recognition of outstanding professional work and significant contribution for advancement of poultry sector in India.

DR M.P. KAORE RECEIVED AWARD AT ONLINE INTERNATIONAL VETERINARY PATHOLOGY CONGRESS 2020

Dr M. P. Kaore, Assistant Professors, Department of Veterinary Pathology, NVC, Nagpur received 1st award in open award

session for young pathologists of ICVP at Online International Veterinary Pathology Congress 2020 and international symposium on "Role on veterinary pathology in controlling emerging and re-emerging diseases of livestock and poultry: one health Approach" held at NVC, Nagpur, during 26-29 Dec 2020.

SECOND PRIZE IN THE POSTER MAKING COMPETITION

Ms. Gargi Wagh, second year B. V. Sc. & A. H. student of Mumbai Veterinary College, Mumbai has won the second prize in the poster making competition for colleges and universities at National level by the National Zoological Park, Delhi during the wildlife week.



SENIOR WING CADET SHILPA RATHOR ATTACHMENT TRAINED

The Senior Wing cadet Shilpa Rathor of Nagpur Veterinary College was selected for Attachment training



Senior Wing cadet Shilpa Rathor

conducted during 23 Nov to 12 Dec 2020 at Officers Training Academy, Chennai. Commanding Officer Col. Satvir Singh, Associate Dean Dr S. B. Kawitkar, Associate NCC Officers Capt Nandeshwar and Lt Shital Chopde guided and appreciated the cadet for successful completion of training during the period of COVID Pandemic. She was the only cadet from R & V units who was selected for Attachment training all over the country.

BEST CLINICAL CASE PAPER AWARD



Dr Pravin Shinde



Dr Ruchika Sangale

Dr Pravin Shinde and Dr Ruchika Sangale, postgraduate students of Department of ARGO, PGIVAS, Akola bagged First and Second awards for Best Clinical Case Paper in ARGO section during the National Clinical Case Conference-2020, respectively under postgraduate category.

RAJMATA VIJAYARAJE SCINDIA KRISHI VISHWAVIDYALAYA, GWALIOR

- Vice-Chancellor Prof. S.K. Rao honoured with “Jawahar Ratan Award” for his contribution in the field of Agriculture development and research on 01 Oct 2020.
- Vice-Chancellor Prof. S.K. Rao honoured by Agriculture Today Group with “India Seed Award-2020” under Lifetime Achievement Award-Public Sector on 05 Dec 2020.
- On the occasion of 92nd Foundation Day and award ceremony of Indian Council of Agricultural Research, the prestigious award was given to KVK, Datia and KVK, Ujjain in a ceremony held at New Delhi.
- ICAR - Pt. Deendayal Upadhyay Krishi Vigyan Protsahan Puruskar - 2019 (National) conferred to KVK Datia (National Best KVK).
- ICAR - Pt. Deendayal Upadhyay Krishi Vigyan Protsahan Puruskar - 2019 (Zonal-Zone IX) conferred to KVK Ujjain (Zonal Best KVK).
- Mrs Sarika Patidar, progressive women farmer of District Badwani received Haldhar Organic Krishak Purushar – 2019, on the occasion of the Foundation Day of ICAR.

- KVK, Jhabua awarded Breed Conservation Award 2020 for Kadaknath Chicken Conservation of National Bureau of Animal Genetic Resources (ICAR), Karnal (Haryana) given by ADG, ICAR, New Delhi Dr V.K. Saxena through online on 23 Dec 2020.

TAMIL NADU AGRICULTURAL UNIVERSITY, COIMBATORE

TNAU SCIENTIST WON NATIONAL AWARD

Dr K.S. Subramanian, Director of Research and NABARD Chair Professor of TNAU, Coimbatore won the most prestigious Fertilizer Association of India Golden Jubilee Award for his



Dr. K.S. Subramanian,
Director of Research won
FAI Golden Jubilee Award

outstanding contribution in the field of Nano-fertilizers and its role in improved use efficiency. The award carries Rs 1 Lakh cash prize with a Gold Medal. He obtained research grants worth more than Rs 25 Crore.

The Tamil Nadu Agricultural University is one of the pioneers in nanotechnology research initiatives and built a state-of-the-art facility to undertake research in agricultural sciences. Dr N. Kumar, Vice-Chancellor, TNAU congratulated the scientist for the award and also appreciated the nanotechnology research team for developing commercially viable technologies such as freshness formulation and nano stickers for fruit preservation, nano-sensors for moisture and nitrogen detection, nano-sanitizer against COVID 19.

TAMIL NADU DR J. JAYALALITHAA FISHERIES UNIVERSITY, TAMIL NADU

Prof. K.H. Alikunhi Gold Medal for overall best Ph.D. Student and Prof. Ravindranath Krothapalli International Travel Award was

announced by the ICAR – Central Institute of Fisheries Education, Mumbai to Dr R. Somu Sunder Lingam, Assistant Professor, KBCeSA, Barur, for the significant contribution to the research output of the sector. The award includes a certificate with a gold medal and financial support of Rs 20,000 for an International trip.



Prof. K. H. Alikunhi

UNIVERSITY OF AGRICULTURAL SCIENCE, BENGALURU

University of Agricultural Sciences, Bengaluru celebrated its 55th Foundation Day on 17 Nov 2020 through online and offline. Shri B.C. Patil, Minister for Agriculture, Government of Karnataka inaugurated the programme. On the occasion, 'Dr Kalaiah Krishna Murthy National Award' was conferred to Dr S. Uma, Director, ICAR-NRC for Banana, Tiruchirapalli for her outstanding contribution in research. "Nagamma Dattatreya Rao Desai Award" was conferred on Dr A.G. Srinivas, Professor of Entomology, College of Agriculture, Raichur, UAS, Raichur for his contributions.

New Vice-Chancellor

SARDARKRUSHINAGAR DANTIWADA AGRICULTURAL UNIVERSITY, SARDARKRUSHINAGAR

DR RAVINDRASINGH MANGALSINGH CHAUHAN

Dr Ravindrasingh Mangalsingh Chauhan has joined as Vice-Chancellor of Sardarkrushinagar Dantiwada Agricultural University on 7 Dec 2020. He has vast experience of more than 36 years in



teaching, research and extension, administration and management. He has diversified experience in agricultural research and successfully executed more than 20 projects including several AICRPs on agricultural crops, RKVY and Seed Hub Projects. He has credits for the release of 2 national and 12 state varieties. Most popular among them are Mung GM 4, Pigeonpea GT 101, Urd GU 1, Moth bean GMO 2 and Rajma GR 1. He has published 33 research papers in International Journals and 31 research papers in national journals of high repute. He authored three books and contributed seven chapters in various books related to agriculture and allied sciences. He has presented 55 research papers in various national and international conferences/ seminars/ workshops. He broadcasted 9 TV talks on Doordarshan and other prestigious TV channels. He has to his credits many prestigious awards and accolades including the Indian Society of Pulses Research and Development Award, the Indian Arid Legumes Society Fellowship, and the Best Team Award of ICAR-Indian Institute of Pulses Research Kanpur. He held various positions with diversified roles and responsibilities in several statutory committees/councils of SDAU and other universities including Member of Board of Management, SDAU; Member of Extension Council, MPUAT, Udaipur; Member of Board of Studies, SDAU; Member of Panel of Examiners of SDAU, Dantiwada; JAU, Junagadh; AAU, Anand; NAU, Navsari; MPUAT, Udaipur; SKNAU, Jobner, etc. His experience in the field of research and his caliber for institution building landed him in several advisory roles; like as a member of the editorial board of Journal of Current Bioscience, GAU Research Journal, and SDAU Newsletter. He is also a member of various scientific and professional organizations/ societies and associations including Indian Arid Legumes Society, CAZRI, Jodhpur; Indian Society of Genetics and Plant Breeding, IARI, New Delhi; Indian Society of Pulses Research and Development, IIPR, Kanpur; Gujarat Association of Agricultural

Sciences; Current Bioscience Association, Bhavnagar; Indian Date Palm Society, New Delhi and Royal Association for Science Led Socio-Cultural Advancement (RASSA), New Delhi. He served the SDAU in various capacities with diversified roles and responsibilities as an InCharge Vice-Chancellor; Director of Research and Dean PGs; Registrar and Director of Human Resources; Planning Officer, Dean, and Principal, C P College of Agriculture (CPCA); Professor and Head and Research Scientist. He has also been enthusiastically associated with student development activities as a Sports Officer, NCC officer and Hostel Warden during his career. He not only made striking achievements in the area of modernization and infrastructure development during his tenure as a Dean, CPCA but also conceptualized and accomplished the establishment of new College of Agriculture at Tharad, an Expansion wing of CPCA, Examination Hall, Tissue Culture Laboratory, Botanical Garden, Language Lab, and Biotechnology Lab at CPCA. He was instrumental in the establishment of the College of Basic Sciences and Humanities at Saradarkrushinagar. He possesses grass-root level knowledge, experience, and understanding of accounting, fiscal analysis, and financial resource planning. His farsighted vision witnessed the establishment of several hostel buildings for boys and girls, a sports complex and an auditorium. He, by his professional skill and leadership ability transformed the seed production scenario of Seed Technology Farm and doubled the output in terms of profit and productivity within the last four years.