



IAUA NEWS

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Office: G-5, Office Block A, NASC Complex, Dev Prakash Shastri Marg, Pusa Campus, New Delhi 110012

Website: www.iauaindia.org, Tele:(O)011-25842422

E-mail: esiaua.newdelhi@gmail.com, iauaofficenewdelhi@gmail.com

NEW TECHNOLOGIES

VARIETIES/HYBRIDS RELEASED

Birsa Agricultural University, Ranchi

Birsa Urd 2: Its major characteristics are – profuse branching, hairy long pod size with 6-7 large brown seeds / pod; resistant to Cercospora leaf spot and root rot with least infestation of aphid; average yield potential, 12 q/ha, matures in around 82 days.

Birsa Arhar 2: It has elongated (oval) and brown colored seed with 22.48% protein content; is resistant to wilt and tolerant to borer; and average yield potential, 27.5 q/ha; and matures in 235-240 days.

Birsa Soybean 3: This variety has oval, light yellow seed, with oil 19% and protein 38.8%; is tolerant to Rhizoctonia aerial blight, frog eye leaf spot and Cercospora leaf spot diseases. Least or no attack of BHC due to hairy stem and pods has been reported. Average yield potential, 27.5 q/ha; matures in 115-120 days; and average plant height is 60-65 cm.

Birsa Bhabha Mustard 1: Developed in association with Bhabha Atomic Research Centre, this variety has bold seeds with 40% oil content; is drought tolerant, moderately resistant to alternaria blight, white rust and aphid. Average yield potential is 14.9 q/ha and matures in around 112-120 days.

Birsa Tisi- 1: This linseed variety has 34.6% oil content; high resistance to rust and alternaria blight and moderate resistance to wilt and bud fly. Average yield is 11.4 q/ha and potential yield is up to 17.12 q/ha. This oilseed crop matures in around 128-130 days.

Divya: This linseed variety has 39.81% oil content with 60% Omega-3 fatty acid very beneficial for heart. It is resistant to multiple diseases and pests. Average yield is 15.4 q/ha and potential yield 21.15 q/ha; and matures in around 127-130 days. Average plant height is 45-65 cm. This variety is very suitable for irrigated condition of Jharkhand in *rabi* season. This variety is already notified and released by Central Variety Release Committee of Ministry of Agriculture Cooperation & Farmers Welfare, Government of India in the year 2016.

Priyam: This linseed variety has 37% oil content with 53% Omega-3. It is resistant to wilt, alternaria blight, powdery mildew, rust and highly resistant to bud fly. Average yield is 12.5 q/ha and potential yield 20 q/ha. Crop matures in around 128-130 days. This variety is very suitable for rainfed ecology even in moderately fertile soils of Jharkhand in *rabi* season. This variety is already notified and released by CVRC of Government of India in 2017.

Birsa Baby Corn 1: This variety was developed through participatory plant breeding using composite breeding. It has creamy and translucent ovule with straight alignment. This extra early maturing maize variety is moderately resistant to maydis and taccicum leaf blight. Baby corn harvesting starts at 48th day and continues till 65th day with 3 pickings. Average yield potential is 16.7 q/ha and matures in around 50-65 days. This variety is very suitable for upland soil having good drainage facility for rainy season.

Birsa Marua 3: This ragi variety has round and yellowish brown seed. Moderately resistant to neck and finger blast and is tolerant to moisture stress. Average yield potential is 28.5 q/ha and matures in around 110-112 days. Average plant height is 109-114 cm.

Birsa Chianki Baigan 1: Fruits of this brinjal variety are purple and egg shaped. The variety is resistant to Bacterial wilt and tolerant to shoot and fruit borer. Average yield potential is 400 q/ha and matures in around 110 days. Average plant height is 90-110 cm. This variety is very suitable for upland soil rich in organic matter content under irrigated condition of Jharkhand in *rabi* season.

Birsa Chianki Baigan 2: The fruits are purple and oblong. It is resistant to bacterial wilt and tolerant to shoot and fruit borer. Average yield potential is 375 q/ha and matures in around 120 days. Average plant height is 95-115 cm. This variety is very suitable for uplands rich in organic matter content under irrigated condition of Jharkhand in *rabi* season.

Chaudhary Charan Singh Haryana Agricultural University, Hisar

CoH 160 (Sugarcane)

CoH 160 has a solid cane with absence of pithiness and straight internodes alignment. This variety is non lodging, good ratooner with an average cane yield of 838 q/ha (335.2 q acre⁻¹). The sucrose level at 300 days of planting is high (18.55%), yielding 11.36 tons of commercial cane sugar ha⁻¹. It is resistant to prevalent pathotypes of red rot and other diseases. Suitable both for autumn/spring planting and input responsive.

CoH 160 has been notified for cultivation in Haryana by Central Sub Committee on Crop Standards, Notification and Release of Varieties for Agricultural Crops.

Dr Rajendra Prasad Central Agricultural University, Pusa

Two crop varieties developed by the University viz. wheat variety - Rajendra Gehun 3 (WB02) and maize variety – Pusa Hybrid Makka 4 were

released at national level by the Prime Minister on 28th September 2021.

MACHINES DEVELOPED

Dr Rajendra Prasad Central Agricultural University, Pusa

Following two machines were developed at the university:

- Hand Cranked Improved Chakki
- Manual Cabbage Harvesting Machine

Sher-e-Kashmir University of Agriculture and Sciences and Technology, Jammu

Wheel operated boom sprayer

Salient features: The manual wheel operated boom sprayer consisting of frame, tank, bicycle wheel, boom stand, hose pipe, boom and nozzles, was developed. The developed sprayer was evaluated in the field with three different types of nozzles i.e. flat fan, hollow cone and flood jet nozzles. The maximum spray coverage of 34.5, 40.9 and 35.8 %; and least spray drift of 2.8, 3.1 and 0.4 %, were found in boom carrying four flat fan, hollow cone and flood jet nozzle, at the height of 400 mm, respectively.



Manual Rotary Weeder

Salient features: A manual rotary weeder was developed which consists of handle, beam, main frame, rotor, cutting blade, cutting blade frame and support plates for adjustments. It



was evaluated in the wide spread field crops such as maize and okra. The maximum field efficiency of equipment was found 90.25 and 91.68%, weeding efficiency 91.75 and 89.54 % with minimum plant damage of 0.233 and 0.410 %, in maize and okra crop, respectively.

PRODUCTS

Dr Rajendra Prasad Central Agricultural University, Pusa

- Rajendra Pusa Mushroom Paneer
- Rajendra Mushroom substrate sterilizer
- Rajendra Pusa Salty Mushroom biscuit
- Rajendra Pusa mushroom Gulab Jamun.

PACKAGE OF PRACTICE

Dr Rajendra Prasad Central Agricultural University, Pusa

- Yam bean seed extract as a safer insecticide for management of aphid in mustard
- Raised bed planting of pigeon pea
- Standardization of planting time of crop geometry in Tulsi
- Low cost production technology for liquid bio-fertilizer at village level.

Sher-e-Kashmir University of Agriculture and Sciences and Technology, Jammu

Crop production

- Division of Agronomy developed the package and practices for newly released wheat variety JAUW 672 by SKUAST-Jammu, and the same has been sent to Directorate of Extension for incorporation in the University Package.

Livestock protection

- Ivermectin, levamisole and topical miconazole/chlorohexidine was found the most effective treatment in fungal affected cattle.
- Itraconazole, levamisole and topical miconazole/ chlorohexidine showed fastest recovery in dermatophytosis affected dogs.

TEACHING

Dr Rajendra Prasad Central Agricultural University, Pusa

Launch of New Courses as an Initiative Towards New Education Policy

The university has made all out efforts to develop highly qualified human resources in agriculture and allied disciplines. During the period under report, the University has also taken several new initiatives to implement the recommendation of New Education Policy, 2020. New courses such as PG Diploma Programme and Certificate courses have been launched including PG Diploma in Agri-Tourism Management, Agricultural Journalism & Mass Communication and Agri-Warehouse Management, and certificate courses in Farm Mechanization Assistant, Senior Citizen Assistant, Nursery Management Assistant, Tissue culture Lab Assistant, Artificial Insemination and Embryo Transfer Assistant, in order to generate trained manpower in specialized field in view of growing demand in different agro-industries, small scale rural industries and service providing sectors. Three courses on foreign languages – German, Spanish and French have been introduced as an optional course in undergraduate, post-graduate, and doctoral programmes running under different colleges of the University.

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana

New Programmes Introduced

College of Veterinary Science, Rampura Phul

- Diploma in Veterinary Science and Animal Health Technology

College of Veterinary Science, Ludhiana Postgraduate Diploma(s) in

- Large Animal Reproduction
- Small Animal Clinical Practice
- One Health (Distance Learning Programme)
- Bovine Clinical Practice
- Equine Clinical Practice

Navsari Agricultural University, Navsari

Teaching Infrastructure Developed at Constituent Colleges of the University

NM College of Agriculture (NMCA)

Vice-Chancellor Dr Z.P. Patel inaugurated the well-equipped

"Virtual Meeting and e-class Room" in the Department of Entomology, NM College of

Agriculture on 07.08.2021



Sher-e-Kashmir University of Agriculture and Sciences and Technology, Jammu

New Programme Introduced

- Ph.D. (Agribusiness Management)

Teaching Infrastructure Developed

- Web Module on Scientific Goat Rearing was developed
- Seminar Room with Multimedia Projector in the Division of Veterinary Anatomy
- UG and PG Labs of Biochemistry unit were established on 18th August 2021.

Tamil Nadu Agricultural University, Coimbatore

New Programme Introduced

Inauguration of Online IDP Training Programme on Video Production

The inaugural function of online training programme on 'Video Production and Editing Techniques' to enrich the knowledge and skills of UG and PG students was held at Digital Extension

Innovation Lab (DEIL), Department of Agril. Extension and Rural Sociology (AE&RS), Coimbatore on 19.08.2021 with funding from ICAR-NAHEP-IDP and coordination by Directorate of Agri Business Development, TNAU, Coimbatore. University Officers participated and spoke on the role of NAHEP-IDP in capacity building of farm graduates and on the necessity of producing Agricultural Video programmes and video modules.



Launch of Lateral Thinking Cell and inauguration of Certificate course

Lateral Thinking Cell was launched and Virtual Certificate course in Media Advertising and Graphic Designing was inaugurated on 22.09.2021. Dr N. Kumar, Vice-Chancellor deliberated on the significance of Media Advertising and Graphic Designing and its wide

range of avenues to provide jobs in the social platform. Mr J. Parthiban, J & J Media Solutions was the Resource person. All the Deans of Constituent colleges, Heads of departments besides II Year and III Year students of all the constituent colleges attended the programme virtually.



EVENTS AND ACTIVITIES

Birsa Agricultural University, Ranchi

41st Kharif Research Council Meeting

The two-day 41st Kharif Research Council meeting of BAU held during 19-20 July 2021, under the chairmanship of Vice-Chancellor Dr Onkar Nath



41st Kharif Research Council at BAU

Singh. The VC also announced constitution of a committee under the chairmanship of Dean Postgraduate Studies for further carrying out, development and refinement in the research works of MSc and PhD students.

The major decisions of the meeting are:

Research efforts would be intensified for development of climate resilient technologies to meet the challenges posed by changing climate affecting crop production adversely. Similarly, research programme on development of bio-fortified crops having higher protein content and micronutrients like iron and zinc will be launched to minimize malnutrition in the state.

35th Extension Education Council Meeting

The meeting of the 35th Extension Education Council of Birsa Agricultural University was held on

28.07.2021. The Vice-Chancellor said that the university is striving towards the need to strengthen the extension



35th Extension Education Council meeting at BAU

system with the cooperation and coordination of the government in accelerating the agricultural development in the state. The KVK is also getting cooperation from the local district administration. These centers can be strengthened by increasing scope of cooperation in development of the district. This will help in speeding up the agricultural expansion in the district. On the instructions of Agriculture Minister, successful operation of seed cover program and technical consultation are being done by KVK by selecting 20 - 20 Birsa farmers in each district of the state during the current *kharif* season. Various programs of research and technology dissemination are being run in Ulihatu, the birth place of Lord Birsa Munda, by the University and Directorate of Prasar. On this occasion, the Vice-Chancellor released *Extension Highlights: 2020 - 21* published by the Directorate of Extension Education.

18th Meeting of Seed Council

As a result of the joint efforts made by the State Government and Birsa Agricultural University for replacement by improved seeds, increase in infrastructure



18th meeting of BAU's Seed Council

and establishment of seed villages, quality seed production in Jharkhand has increased 40 times in the last 15 years.

This information was given in the report presented in the 18th meeting of the Seed Council of BAU on 30.07.2021. Dr Rishi Pal Singh, Director, Seed Farm of the University informed that at the BAU, about 10 thousand q quality seeds of different categories (Breeders, foundation and Certified seeds) of cereals, pulses and oilseed crops, were produced under *kharif* and *rabi*, and for the year 2021-22 target has been set. This includes 5000 q seeds of pulse crops to be grown in 5 seed hubs in collaboration with the Indian Council of Agricultural Research.

Vice-Chancellor Dr Omkar Nath Singh said that continuous cooperation of the Agriculture Minister and departmental officers is being received in increasing the seed production, which has yielded positive results. BAU should prepare its seed rolling plan in advance related to crops, which variety will cover how much area, and how much seed will be produced every year.

Chaudhary Charan Singh Haryana Agricultural University, Hisar

Webinar on Improving the Quality of Agricultural Research

A one-day webinar on improving the quality of agricultural research in India was organized under the joint aegis of CCS HAU's Nehru Library and Elsevier. The Vice-Chancellor



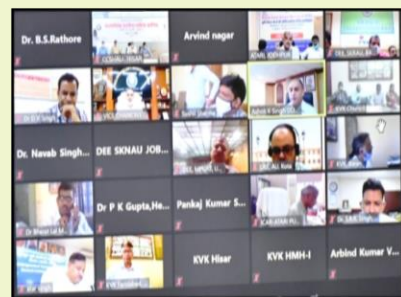
Prof. B.R. Kamboj, VC, CCS HAU
addressing the webinar

of the University, Prof. B.R. Kamboj was the Chief Guest while the Deputy Director General, ICAR, New Delhi, Dr R.C. Agarwal joined as the keynote speaker. On this event, the Chief Guest called upon the

researchers from all over the country to improve the quality of their publications and publish them in world class high quality journals so that the name of their organization and the country should be brought to the fore. The keynote speaker of the program Dr R.C. Agrawal, DDG (Agricultural Education), ICAR, New Delhi explained in detail about the research done by Indian agricultural scientists at the world level. He also gave his lecture about the information sources and resources provided by the Education Division of the Indian Council of Agricultural Research, New Delhi to improve the quality of research in all agricultural research centers and universities.

Zonal Annual Review Meeting of KVKs

The Vice-Chancellor of CCS HAU, Prof. B.R. Kamboj said that there is a dire need to focus on Resource Conservation Technologies (RCTs) as there is a huge need for these technologies at present. These can play an important role in reducing the cost of cultivation, improving soil carbon formation, reducing water runoff and soil erosion etc. He expressed his views on the launch of Virtual Zonal Annual Review Meeting of Krishi Vigyan Kendras in CCS HAU through online medium. Chief Scientists of Krishi Vigyan Kendras of Haryana, Rajasthan and Delhi under Attari Jodhpur, Zone-2 attended the meeting. Vice-Chancellor Prof. B.R. Kamboj said that farmers should be encouraged to adopt techniques like zero tillage, laser leveling, bed planting, drip and spring irrigation. Apart from this, use of laser land levelers, multi crop planters, straw management system, turbo seeder, reaper, straw spreader attachment, binder, happy seeder etc. should be promoted. Calling upon the extension scientists of the University, he said that in future also, they



should disseminate the techniques developed by the University and the improved varieties of different crops to the farmers so that the farmers can be benefited and the University continues to move towards its farmer-friendly goal.

Workshop for Horticultural Officers

State Agriculture and Farmers Welfare Minister Shri Jaiprakash Dalal said that farmers, scientists and agriculture officers should work together as a mission, not considering



Hon'ble Agriculture Minister J.P. Dalal and others

agriculture as a means of livelihood. He was addressing the horticulture officers' workshop through virtual mode under the joint aegis of CCS HAU, Hisar and Horticulture Department, Government of Haryana. He called upon the scientists to bring the world's best technology to the farmers keeping in mind the problem of the farmer, and asked to develop different varieties and techniques that help growing crops and horticulture in less water, so that the income of the farmers can be increased by reducing expenditure. On this event, Vice-Chancellor Prof. B.R. Kamboj called upon the scientists to develop advanced techniques and varieties keeping in mind the geographical conditions of the region so that the farmers of that area can get the benefits of them for a long time. Additional Chief Secretary, Agriculture Department, Dr Sumita Mishra, IAS, suggested that farmers should take maximum benefit by forming a producer group. 600 Farmer Producer Groups have been formed in the state and one thousand clusters will be formed soon. Director General (Agriculture) Haryana Dr Hardeep Singh, IAS said that whatever recommendations are approved during this workshop, they should be conveyed to maximum farmers. Prof. Samar Singh, Vice-

Chancellor of Maharana Pratap Horticulture University, Karnal, informed about the efforts being made by the University in the field of horticulture.

Training

Online Training Organized for Teachers and Postgraduate Students In HAU

One-day online training was organized at Nehru Library of CCS HAU, Hisar on the theme "Awareness

and Use of Urkund - Anti Plagiarism Software" for Faculty and PG Students. At the launch of the programme, the Director of



Participants in the program during training

Research of the University, Dr S.K. Sehrawat as the Chief Guest called upon the participants to give importance to quality in their research and avoid plagiarism. Also, make sure to use anti plagiarism tools in research. Librarian Dr Balwan Singh informed that this training has been organized under a program Shodhshuddhi launched under various schemes of Ministry of Human Resource Development, Government of India. This training enabled the participants to gain in-depth knowledge about the use of anti plagiarism tools in research. Preeti Rathi, Project Manager, e-Ganglectic, as the keynote speaker of the program, explained the modalities of using the software in our research work. In this training, 343 participants got benefited by registering.

Farmers' Fair

Vice-Chancellor Interacted with Farmers in Kisan Goshthi

It is the responsibility of every agricultural scientist to solve the problems of farmers—said Prof. B.R. Kamboj, Vice-Chancellor, CCS HAU,

while addressing the *Kisan Goshthi* organized under the joint aegis of the University's Directorate of Extension Education, Directorate of Research, Cotton Section, *Krishi Vigyan Kendra* and Department of Agriculture and Farmers Welfare. Vice- Chancellor Prof. B.R. Kamboj said that this time the team of scientists of the University is constantly going to the field and working to solve problems of farmers so that they have to face the least problems in farming. He further said that integrated management of pests and diseases is necessary for better production in cotton crop. For this, special attention should be paid to the instructions and advisories issued by scientists from time to time. He said that he himself is going to the fields of the farmers and providing information on the spot regarding their problems.

CCS HAU Vice-Chancellor Calls Upon Farmers to Get Training Related to Value Addition of Products

Farmers have to be made aware about value addition of the products to increase their income.

Scientists will also have to help the farmers by moving forward in this direction; only then the upliftment of the



Prof. B.R. Kamboj VC CCS HAU addressing the Kisan Goshthi

farmers is possible. These views were shared by the Vice-Chancellor, Prof. B.R. Kamboj while interacting with the farmers as the Chief Guest during the *Kisan Goshthi* organized in village Umra. At the inauguration of the program, tribute was paid to the statue of farmer leader Late Mangeram by garlanding him and plantation was also done. Prof. Kamboj suggested that farmers should work by forming Farmer Producer Groups to sell their products and to eliminate the middleman system, so that

by establishing their own market, they could be directly connected with the customers and get more profit. Apart from preparing milk and its products, farmers can get training from the University in making products of wheat, millet and other crops and can establish self-employment. The University continuously provides such trainings for the benefit of farmers.

Kisan Mela (Rabi)

Water is an Important Resource, 70% Irrigation Water is Wasted due to Lack of Proper Management: Dr Trilochan Mohapatra, Secretary, DARE and DG, ICAR

Water is an important resource for agriculture but due to lack of proper management of water, about 70 % of irrigation water is wasted.

Therefore, farmers should adopt the techniques developed by agricultural scientists and



Secretary (DARE) and DG (ICAR) addressing the farmers during Kisan mela

improved varieties of different crops as much as possible. Dr Trilochan Mohapatra, Secretary DARE and Director General, ICAR, New Delhi expressed these views while speaking as Chief Guest at the inauguration of *Krishi Mela (Rabi)* organized by CCS HAU, Hisar by joining online medium. Dr Gurdial Singh, Vice-Chancellor of Lala Lajpat Rai University of Veterinary and Animal Science, Hisar, was the special guest in the program, while, Prof. B.R. Kamboj, Vice-Chancellor of CCS HAU and Guru Jambheshwar University of Science and Technology presided. The Chief Guest said that in a state like Haryana, the wastage of such a large quantity of water is a matter of concern. Due to the ever-increasing consumption of water, the quantity of water for the agriculture sector has decreased. If the exploitation of natural resources continues in this manner,

then in the coming times in Haryana, leave aside irrigation, there may be a severe shortage of clean drinking water for the people and resulting in a possibility of 30 % reduction in agricultural production. University Vice-Chancellor Prof. B.R. Kamboj said that for the last two years due to the Corona epidemic, the agricultural fair could not be organized through offline mode. This time we are very happy to organize an offline fair, in which farmers participated enthusiastically. The Vice-Chancellor of Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar, Dr Gurdial Singh said that physically organizing the fair after two years on behalf of HAU is very beneficial for the farmers' interest. Practically what you get to learn in the fair is not possible through online medium.

The two-day *Krishi Mela (rabi)* organized by the University. This time the theme of *Krishi Mela* was also water conservation so that farmers could be motivated for it. In this fair water conservation techniques were displayed to



Winners of the exhibition in front of their stall

make farmers aware about these technologies. The Vice-Chancellor, CCSHAU called upon the farmers to visit the University and take maximum advantage of the developed technologies and improved varieties here. About 52 thousand farmers registered during the fair and seeds and fruit plants worth about Rs 70 lakh were sold in the fair.

Dr Rajendra Prasad Central Agricultural University, Pusa

Launch of new courses as an Initiative towards New Education Policy

The university has made all out efforts to develop highly qualified human resources in agriculture and allied disciplines. During the period under report, the University has also taken several new initiatives to implement the recommendation of New Education Policy, 2020. New courses such as PG Diploma Programme and Certificate courses have been launched including PG Diploma in Agri-Tourism Management, Agricultural Journalism & Mass Communication and Agri-Warehouse Management, and certificate courses in Farm Mechanization Assistant, Senior Citizen Assistant, Nursery Management Assistant, Tissue culture Lab Assistant, Artificial Insemination & Embryo Transfer Assistant, to generate trained manpower in specialized field in view of growing demand in different agro-industries, small scale rural industries and service providing sectors. Three courses on foreign languages – German, Spanish and French have been introduced as optional course in undergraduate, post-graduate, and doctoral programmes running under different colleges of the University.

Sukhet Model for monetization of agri-waste has gained national importance

The Sukhet Model, which is an innovative project of the University towards achieving the goal of Swachh Bharat Abhiyan, Ujjawala Yojana and soil health (plant nutrient supply), has been lauded by the Prime Minister Sri Narendra Modi Ji during the latest episode of Man ki Baat on 29th August 2021, who also expressed the need to adopt this model in each



Panchayat of the country. In this Model, the cow dung and house hold waste is collected from various farm families of the village and in return the families who supply their cow dung and house hold waste is paid the refilling cost of LPG cylinder out of sale of vermi-compost prepared from cow dung and house hold waste. The vermi-compost is used for maintenance of soil health to get higher productivity in sustainable manner.

Important events organized

- Webinar on “Strategies for enhancing quality of fish seed from freshwater hatcheries” was held on 14 July 2021.
- Van Mahotsav was organized on 16 July 2021
- National Fish Farmers Day was organized on 10 July 2021, and practical manual and lab manual were also released on this occasion.
- Hindi pakhwara was organized from 9-23 September 2021 in the university. During this occasion various activities to promote Hindi language such as essay writing, poems, debate competition etc. were organized with active participation of staffs and students. A kavya Goshthi was also organized on this occasion.

Statutory Body meeting

- The Board of Management meeting of the university was held on 3 August 2021 to approve new courses in the light of New Education Policy and other policies related to administration, academic, research, extension and finance for smooth functioning of the university.
- The Extension Education Council meeting of the university was on 4 September 2021 to review ongoing extension activities and approve programme for future extension activities.
- The Finance committee of the university was held on 23 July 2021 to approve the

financial layout for smooth functioning of the university.

- The 7th Academic Council meeting of the University was held on 17 July 2021, to discuss and finalize the policy issues related to academic activity.
- The Education Council meetings were held on 15 July, 27 July and 23 August, 2021 to review ongoing academic activities and to finalize the guidelines for various academic programme.

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana

Animal Parasite Awareness Week

GADVASU celebrated Animal Parasite Awareness Week from 23 to 27 August 2021 with great fervour and zeal, taking in its ambit the organization of following programmes/activities:

- Directorate of Extension Education organized a workshop to create awareness on control and mitigation strategies for parasitic diseases in collaboration with the Department of Veterinary Parasitology. Dr Inderjeet Singh, Vice-Chancellor emphasized upon the need to sensitize various stakeholders involved in the dairy sector about the importance of subdued parasitic infections that lead to enormous economic losses. Expert(s) delivered talks on different aspects of parasitic infections of dairy animals and strategies that can be adopted to prevent and control such diseases.



- Department of Veterinary Parasitology and Department of Veterinary and Animal Husbandry Extension Education jointly organized an Awareness Training Camp at village Ichhewal (Patiala) sensitizing farmers about the importance of standard management practices in livestock farming to uplift the economic returns from the sector.
- A Diagnostic-cum-Awareness Camp under the theme 'Parasitic infections of Livestock & Companion Animals: An Update on Management and Control Strategies' was conducted at Veterinary College, Rampura Phul (Bathinda) to create awareness amongst participants regarding the parasitic infections.
- Department of Veterinary Parasitology conducted a free deworming, acaricidal usage sample testing and parasite management camp for livestock and pet owners.
- University scientists delivered TV and Radio Talk(s) and published articles in newspapers and magazines for sensitizing the stakeholders about parasitic infections.
- Krishi Vigyan Kendra (KVK), Booh (Tarn Taran) organized a workshop on 'Strategies to overcome parasitic problems in dairy animals under field conditions'.



Dr Inderjeet Singh, Vice-Chancellor said that the programme(s) certainly created awareness amongst the stakeholders regarding the negative impact of parasitic infections on livestock sector and measures to mitigate them using holistic integrated approach. This will further help in getting maximum profitability from the livestock with minimal use of chemicals.

Workshop on use of paddy straw for livestock production

Directorate of Extension Education organized a workshop on 'Use of paddy straw in animal production' for animal scientists working at KVKs of the state.

Dr Inderjeet Singh, Vice-Chancellor stressed on the joint efforts of GADVASU, PAU



and related departments to make farmers aware about the usage of paddy straw as the low cost source of livestock nutrition. The book on 'Paddy Residue Management' was also released. Treatment of paddy straw with urea and molasses to improve its nutritive value, making urea treated bales during harvesting and exporting to adjoining states were discussed apart from its alternate uses in livestock. Misconceptions about ill effects of paddy straw feeding were addressed by the scientists.

Trainings organized

Maiden Training on Dog Blood Transfusion

Department of Veterinary Medicine organized training programme on 'Practical tips on anaemia and blood transfusion in dogs' under the aegis of DBT-GADVASU Canine Research Centre of the University. This first ever training programme on transfusion of blood and its components in dogs in north India took in its ambit the practical aspects of separating the

dog whole blood into different components, such as packed RBCs, platelets and plasma and transfusion of the need based blood component to recipient patient. Thus, blood from a single donor dog could be transfused to 3-diferent



patients based on their requirements. The Blood Transfusion Unit has been appreciated throughout the country and in a recent tweet the Governor of Punjab had congratulated the faculty of Veterinary Medicine for the services rendered to livestock and pet owners. Dr S.K. Uppal, Dean, Postgraduate Studies inaugurated the training programme and Dr J. P. S. Gill, Director of Research, presided over the valedictory function.

Training on 'Recent advances in aquatic animal health and environment management for sustainable aquaculture'

College of Fisheries organized a virtual training programme on 'Recent advances in aquatic animal health and environment management for sustainable



aquaculture' under the 'National Surveillance program for Aquatic Animal Diseases' funded by Department of Fisheries, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India. In the programme conducted under the patronage of Dr Inderjeet Singh, Vice-Chancellor, GADVASU, Dr J. K. Jena, DDG (Fisheries), ICAR, New Delhi, graced the occasion as the Chief Guest of the inaugural session and Dr Madan Mohan, Director and Warden, State Fisheries Department, Punjab as the Guest of Honour.

Farmers' Fair

Pashu Palan Mela

GADVASU in collaboration with Punjab Agricultural University, Ludhiana organized a *Pashu Palan Mela* on 17-18 September 2021, in virtual mode. The Chief Minister of Punjab, Capt. Amarinder Singh inaugurated the mela and emphasized on having farm diversification with livestock production, water conservation, direct seeding of rice, drip irrigation, use of herbal pesticides and above all enhancing the income vis-à-vis the livelihood of the farmers.



Dr Inderjeet Singh, Vice-Chancellor, GADVASU during the deliberations highlighted the progress of various infrastructural projects implemented by the University under the aegis of Punjab Government and informed about the various initiatives and facilities of the University available at the disposal of the livestock farmers. Respective subject matter experts addressed the queries of farmers, and a panel discussion was conducted to deliberate on uplifting the livestock sector.

Expert Talk on Entrepreneurship

Institutional Development Plan (IDP) Cell of GADVASU organized a guest lecture on 'Entrepreneurial Opportunities for Vets'. Dr D.V.R. Prakasha Rao, President, Governing Council, National Academy of Veterinary Sciences (India) was the speaker. He shared his inspirational journey from a technocrat to an entrepreneur mentioning the key components



to be practiced to be a successful entrepreneur. Dr Inderjeet Singh, Vice-Chancellor, GADVASU expressed his gratitude towards Dr Rao for his motivational talk and emphatically opined in consonance with his views. He briefed about the initiatives of GADVASU in boosting entrepreneurship culture amongst students, farmers and unemployed youth.

G.B. Pant University of Agriculture & Technology, Pantnagar

Veterinary students administered the oath of profession

Passing out students of 56th batch of Bachelor of Veterinary Sciences and Animal Husbandry (BVSc & AH) programme,

were administered oath of dedicating themselves for the service and welfare of



Students of final year BVSc & AH programme taking oath of profession.

animals and the society, in a function organized at College of Veterinary and Animal Sciences on 28 July 2021. Chief Guest, Registrar, Dr A.K. Shukla, administered oath to young veterinary doctors in the presence of Dean, Veterinary and Animal Sciences, Dr N.S. Jadon and other deans, faculty members and officers. Meritorious students of the batch in various fields were also honoured on this occasion.

National Fisheries Day celebrated

College of Fisheries celebrated National Fisheries Day on 10 July 2021, in the college auditorium. The programme was funded by IDP-NAHEP. Chief Guest of the programme, Dr A.K. Shukla, stated that scientists are making efforts at the national level to increase the quality of fish seeds. Dean Agriculture, Dr S.K. Kashyap said that fish breeding is an important process in fisheries, and it needs more

attention so that farmers can get the high quality fish seed. Dr Amita Saxena apprised that Dr Hira Lal Chaudhary has an important contribution in celebrating

Registrar, Dr. A.K. Shukla, addressing fish farmers in the programme.

National Fisheries Day, due to which India is second in the world in fish production. Earlier former Dean Fisheries, Dr A.K. Upadhyay, further explained the outline of the programme. A quiz was also organized during the programme.

Pantnagar Janvani successfully completed ten years

The 10th annual function of the Community Radio, *Pantnagar Janvani*, which is being operated in the communication center of the university, was organized on 17 August 2021 in the auditorium of University Center, NAHEP Pantnagar. Chief



Vice-Chancellor, Dr. Tej Partap, receiving a memento on the annual function of Community Radio.

Guest of the programme, Vice-Chancellor, Dr Tej Partap, said that Community Radio, *Pantnagar Janvani*, has been broadcasting programmes continuously for the last ten years among the people. He said that Pantnagar Janvani is playing an important role in taking research and development to the farmers, which is very commendable. Registrar, Dr A.K. Shukla and Dean Post Graduate, Dr K.P. Raverkar talked about importance and benefit of community radio which is a matter of pride for the university. Director Communication Centre, Dr S.K. Bansal and Joint Director Communication, Dr M.A. Ansari gave

highlights of the programmes of community radio. In this programme, the audience of Pantnagar Janvani who came from the nearby areas along with the university also expressed their views, including Shri Padolochan Vishwas, Shri K.P. Singh, PhD student Dr Deepikesh, Smt Pushpa Joshi and Lalji Verma etc.

Pt. Govind Ballabh Pant Memorial Society programme organized

Pt. Govind Ballabh Pant 134th birth anniversary– IDP-NAHEP Pantnagar felicitated the occasion in which Mr Lalit Mohan Bhatt and Mr. Rajesh Kumar, Coordinator



Uttarakhand of Govind Ballabh Pant Celebrations Committee, Nainital Uttarakhand visited Pantnagar and donated around 640 books to University Library from the personal library of Pant Ji on 11 September 2021. The occasion was celebrated in presence of Vice-Chancellor, Dr Tej Partap, Deans, Directors and team members of IDP-NAHEP Pantnagar.

Training programmes organized under Scheduled Castes Sub-Plan

Scientists of the Weed Management Research Project organized training programmes on the methods of weed control in *kharif* and *rabi* crops and the problems faced in their use by the scheduled caste and other backward farmers in the village of Chakarpur, block Bajpur and village of Jagdishpur, block Gadarpur, district Udham Singh Nagar under Indian Council of Agricultural Research. Senior Research Officer, Department of Agronomy, Dr Tej Pratap informed all the guests and the farmers about the objectives of the project and also made the farmers aware of the various methods of weed control. Weed Research Scientist, Dr Virendra Pratap Singh explained

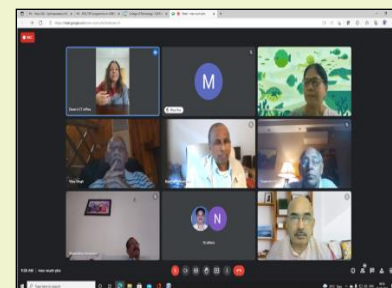
about-various tools used for weeding and application of herbicide in *kharif* crops; proper amount of herbicide and precautions while spraying; and also answered the questions asked by the farmers. A total of 50 participants participated in the programme.

Virtual Kisan Gosthi organized

A Virtual Kisan Gosthi on 'Sustainable Agriculture: Balanced Nutrient Management in Paddy' was organized on 12 August 2021 under the guidance of Dr Deepa Vinay, Unit Coordinator and Dr Seema Kwatra, Senior Scientist, Department of Family Resource Management. The speakers of the gosthi were Mr Vinay Kumar Sharma (Lead-YaraVita India) and Mr Pradeep Singh (Regional Agronomist, Yara Fertilizers India Pvt. Ltd.). About 35 farmers from Udham Singh Nagar, Almora, Jyolikot, Bhawali, Nainital participated in Kisan Goshti. Dr A.S Naian, Director Research was the Chief guest of the event. During the gosthi, experts discussed that in order to increase farm production farmers are using excessive chemical fertilizers and pesticides which are resulting in soil, water and environmental degradation along with adverse effects on human health. Thus, correct and timely use of balanced fertilizer after soil testing is essential to improve soil fertility, increase farm production, increase bio-diversity and improve human health.

Atal Academy Faculty Development programme on Urban Hydrology organized

College of Technology organized a programme on Atal Academy Faculty Development programme on Urban Hydrology from 2-6 August 2021. All India Council for Technical Education sponsored this



programme. Programme Coordinator, Dr H.J. Prasad, informed that the objective of the programme is to analyze the urban storm, water systems and urban rainwater and told the participants about climate change like short duration high intensity rainfall in urban areas. Former Vice-Chancellor of the University, deans and professors were present in the five-day programme and experts from different states of the country presented complete information on their respective subjects. Dr Jyoti Prasad and Dr H.J. Prasad were the coordinators of the programme. A total of 150 researchers from 22 states of India participated in the virtual programme.

Tree plantation done under Amrut Mahotsav of India

'Tree plantation' activity was organized on 12 July 2021, under ICAR's drive '*Bharat ka Amrut Mahotsav*' on the occasion of the 75th year of India's

Independence. Vice-Chancellor, Dr Tej Pratap Singh; Director, Extension Station, Dr Ajit



Vice-Chancellor, Dr. Tej Partap, planted leechi tree during the programme.

Nain; Dean, Home Science, Dr Alka Goel; Dean College of Veterinary Sciences, Dr. N.S. Jadon; Joint Director, Honeybee Research and Training Centre, Dr Pramod Mall; all AICRP scientists planted *leechi* trees to protect the environment and save the endangered species of honeybee.

Activities under 'National Nutrition month'

International Webinar on 'Nutritional Considerations for Women using Life-Cycle Approach'

An International webinar on 'Nutritional Considerations for Women using Life-Cycle

Approach' was organized on 28 September 2021 to discuss the nutritional deficiency in women, especially pregnant women, and its ill consequences on the foetus. The webinar was sponsored by National Commission for Women, Government of India. The Programme was inaugurated by acting Vice-Chancellor Dr A.K. Shukla. Mr Ashutosh Pandey, Senior Research Officer, National Commission for Women provided information on the 'Poshan Abhiyaan' being run by the Government of India emphasizing on improving the health of women. All the speakers of the webinar, Dr Rita Singh Raghuvanshi, Dr Pratima Awasthi, Dr Sarita Srivastava, Dr Anuradha Dutta, and Dr Archana Kushwaha discussed the importance of nutrition in various stages of life of women and focused on the measures to avoid malnutrition. Dr A.S. Nain, Director of Research appreciated the role of the Department of Foods and Nutrition in improving the nutritional status of rural women in the present era and congratulated the organizing committee. A total of 211 participants participated in the webinar from different states of India, and also from France and Israel.

Activities under 'Bharat ka Amrut Mahotsav'

A training programme on 'Product Value Addition through Design Innovation' was conducted for women of Self Help group '*Maa Lakshmi Swayam Sahayata Samooh*' and school girls of Khera village, Gram Panchayat Khera, Vikas Khand Haldwani, District Nainital in association with NGO



Cheshta by AICRP-Home Science, Clothing and Textile component from 21-25 September 2021 under the supervision of Dr Manisha Gahlot, Professor. A total 20 of women/girls

participated in the five-day training programme. During the training, participants were made aware of the importance and significance of the value addition of products in the present time. Demonstration on screen printing technique and preparation of printing paste was given. Later they practiced it and made cushion covers using different design arrangements. They were also given practical training in the preparation of decorative trims and fringes to embellish the prepared products. Innovative use of basic hand embroidery stitches in combination with screen printing was also taught to them. All the learned techniques were incorporated into the final products by the participants.

Webinar, workshop, trainings conducted under IDP-NAHEP

- Agri-informatics component of IDP-NAHEP Pantnagar conducted online lecture series on 'Digital Agriculture for Enhancing Profitability'. Under this, on 14-15 July 2021 the expert Dr Brajendra, Principal Scientist from ICAR-Indian Institute of Rice Research, Hyderabad took a session on Digital Soil Health Management and Automated Soil Testing Analysis and Online Soil Health Card Generation System. Total 46 students attended the session.
- Vice-Chancellor, Dr Tej Partap, conducted a brainstorming of all Deans and Directors on the topic 'National Education Policy-A Blueprint of Pantnagar' on 17 July 2021, at IDP-NAHEP Pantnagar building in which Dr Tej Partap detailed the developments upcoming under National Education Policy-2020 and the possible get-ahead at college and directorate levels.
- A webinar entitled 'Quality seed production of wheat and barley' was organized on 24 July 2021 under Certificate and Diploma course on Seed Production Technology run by IDP-NAHEP Pantnagar. A total of 30 participants attended the session.
- A webinar on 'Quality seed production of Maize' was conducted under the Seed Production Technology course. A total of 30 participants attended the session and 'Mushroom spawn preparation technology' under the Innovation in mushroom technology course on 7 August 2021. A total of 21 participants attended the session.
- The Agri-informatics component of IDP-NAHEP, Pantnagar organized a two-days online training on 'Big Data and the Future of Agriculture' on 9-10 August 2021. The expert was Dr M. Balakrishnan, Principal Scientist at ICAR-NAARM, Hyderabad. On day 1 of the training, Dr Balakrishnan detailed the scope of artificial intelligence research in the Agricultural sector. A total of 65 participants attended the session.
- In the series of workshops under IDP-NAHEP Writing Studio, a 5-day online workshop was organized on "Creative writing skills" from 25 August 2021. The expert of the sessions was Dr Shweta Gupta who is a Fellow of IIM-Indore and Director of Arohana Management Solutions, Dehradun. The workshop focused on introducing the students to the elements of creative writing, types of creative writing and how to induce creativity. A total of 62 participants attended the sessions.
- Under the Agri-informatics component of IDP-NAHEP Pantnagar, a 5-day training on "Applications of Computer-Aided Design (CAD) in automation of Agriculture" was commenced on 27 August 2021. The expert of the training session was Mr Dayanand Sharma who is working as Senior Technical Designer at Club First Robotics Pvt. Ltd., Jaipur Rajasthan. The training focused on giving hands-on experience to the participants on using Auto CAD software for basic designing and its application in the automation of agriculture. On Day-1 of the training, the participants were given insights into fundamentals and basic

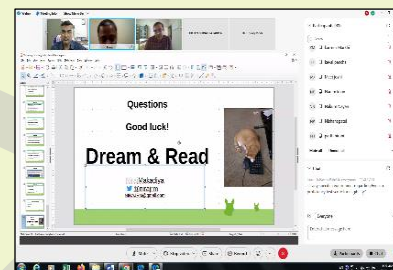
functionalities in Auto CAD. A total of 200 participants got registered for the training.

- A 5-day training on 'Applications of 3D Modeling in Automation of Agriculture' was held from 8 Sep 2021 under Agri-informatics component of IDP-NAHEP Pantnagar. The expert for the training was Mr Bhuvanesh Mishra, who is Managing Director of Club First Robotics Pvt. Ltd., Rajasthan. The training focused on giving insights into the basic sketch of robot and assembling its multiple parts. Further a hands-on experience was given to the students on third dimension design process. A total of 50 participants attended the training sessions.
- The Agri-informatics component of IDP-NAHEP Pantnagar organized a 2-day international webinar on the theme 'Role of Digital Soil Management Practices in Smart Farming' on 20-21 September 2021. On Day-1 (20/09/2021), Dr Y. Peng who is working as an International Consultant (Soil Spectroscopy and Soil Information) at GSP, UNFAO elaborated on the concept of Digital Soil Mapping (DSM) including soil sampling, DSM Modeling and issues in DSM. The speaker also introduced the participants to GSP (Global Soil Partnership) and its pillars of action. It was an insightful session which was attended by a total of 86 participants.
- In the series of workshops under IDP-NAHEP Writing Studio, a 5-day workshop was initiated on the topic 'News and Feature Writing' from 21 September 2021. The expert of the workshop was Dr Shweta Gupta, who is Fellow, IIM Indore and Managing Director of Arohana Management Solutions, Dehradun. She discussed in detail about various concepts to be focused while creating articles for news including the titles. The workshop was attended by 45 students who also got hands-on experience in writing news articles via daily assignments.

Kamdhenu University, Junagadh

A webinar organized for students on "Job Prospects for Veterinarians in USA & Canada"

Placement Cell of the CVSc & AH, Junagadh, organized a webinar on 25th Sep 2021 on "Job Prospects for Veterinarians in Canada" under the chairmanship of Dr P.H. Tank,



Webinar for students

Principal & Dean, Veterinary Faculty and Dr Nirajkumar Makadiya, PhD, Edmonton, Alberta, Canada was the chief guest and speaker. After welcome of the guests by Dr J.B. Kathiriya, Convener, Placement cell, Dr Tank narrated the importance of webinar, future placement and higher studies abroad, in his introductory speech. After introduction of the speaker by Dr Trangadia, Asso. Prof., Dr Makadiya, delivered a very informative talk on "Veterinary Licensing for Foreign Graduates in North America" and presented brief information regarding scope of veterinarians and different types of veterinary licenses required for veterinary practicing in Canada and USA, different Veterinary regulatory bodies in North America, State/provincial veterinary regulatory bodies, important bodies for foreign graduates, registration process in American Veterinary Medical Association (AVMA) and Canadian Veterinary Medical Association (CVMA). He also narrated about Language Proficiency Requirement like; Reading, Writing, Listening and speaking abilities and Basic and Clinical Sciences Examination (BCSE), North American Veterinary Licensing Examination (NAVLE), Preliminary Surgical Assessment for the CPE (PSA) and Clinical Proficiency Examination (CPE). The online meeting was followed by discussion with learned participants and expert speaker of the webinar.

Dr C.M. Modi, Secretary, Placement cell proposed expressed a vote of thanks to all. The faculty members and students from all four Veterinary Colleges under Kamdhenu University participated in this webinar.

Navsari Agricultural University, Navsari

Workshop

Online Sensitization Workshop on "Opportunities for Innovation and Entrepreneurship in Agriculture"

The University Student Startup Cell in association with NAHEP-CAAST sub-project at Navsari Agricultural University organized an Online Sensitization Workshop on

"Opportunities for Innovation and Entrepreneurship in Agriculture" on 13 July 2021. This Workshop was presided over by Dr Z. P. Patel, Vice-Chancellor of NAU, Navsari who emphasized that innovation and entrepreneurship in agricultural sector should be stimulated by globalization and the digital revolution. Mr Vivek Shukla, Co-founder, Rise Hydroponics, Ahmedabad; Dr Sagar S. Deshmukh, Faculty, National Institute of Agricultural Extension Management, Hyderabad & Mr Sai Krishna Popuri, Founder and CEO, Health Sutra, Hyderabad were the Guest Speakers of this workshop. In all, 350 participants benefited from the workshop which included PG scholars, faculties and aspirant entrepreneurs from agriculture sector across the nation.



Webinar

Webinar on "Role of Farmer Producer Organizations (FPO's) in Linking Farmers to Markets"

ASPEE Agribusiness Management Institute, Navsari Agricultural University, Navsari organized National Level Webinar on "Role of Farmer Producer Organizations (FPO's) in



Linking Farmers to Markets" on 12 August 2021. Dr K.C. Gummagolmath, Director (Monitoring & Planning), MANAGE, Hyderabad; Dr Sagar Kisan Wadkar, Social Enterprises Management Trainer, Pune and Mr Pramod Rajebhosale, CEO, H. Square Incubation Center for Horticulture, Sahyadri Farms, Nashik were the resource persons and shared their valuable information and experience on the formation, promotion of FPO's and their role in developing market linkages. In all 280 participants including faculties, students, industry practitioners, professionals from various FPO's, farmers and government officials from 24 states of the country benefited from the Webinar.

Webinar on Dialogue with the Organizations working for the farmers' development

Directorate of Extension Education, NAU, Navsari organized a webinar on "Dialogue with the Organization working on the farmers' development in seven districts of South Gujarat" under the chairmanship of Dr C.K. Timbadia, DEE on 19 July 2021 to strengthen the agricultural/rural development and Doubling the farmers' income with effective and collective efforts of organization working in the field of farmers' development, women empowerment, FPOs, Women federation, SHG etc. Total 63 participants joined the webinar including 7 KVKs and 45 organizations.



Khraif Pak Parisamwad

As a part of celebration of *Azadi ka Amrit Mahotsav*, *Khraif Pak Parisamwad* was organized jointly by Kribhco and NAU, Navsari under the chairmanship of Shri Dileep Bhai Sanghani, President, National Cooperative Union of India,

Chairman, GUJCOMASOL, Vice-Chairman, IFFCO and inaugurated by Dr Z.P. Patel,

Vice-Chancellor, NAU, Navsari on 12 August 2021. Shri Dileep Bhai emphasized on

the quality produce and value addition in the different farm produce to earn more income. He also made suggestions to make cooperative more effective for rural development. Dr Z.P. Patel, Vice-Chancellor, NAU, Navsari emphasized on the development of new technologies and innovative products viz., Sapota *jaggery*, wafers from jack fruits, pineapple etc. Shri P.V. Kachhadia, Sr. Area Manager, KRIBHCO described about the importance and use of biofertilizers in agriculture. Dr C.K. Timbadia, DEE, NAU, Navsari informed the house about efforts made by NAU for marketing support to the farmers viz., marketing place during Covid 19 pandemic situation, Organic *Krishak Bazar*.



Shri Dileepbhai Sanghani President, National Cooperative Union of India, Chairman, GUJCOMASOL, Vice-Chairman, IFFCO addressing the participants during Kharif pak parisamwad

- A one-day workshop was organized on 'Promotion of Organic Farming in Jammu and Kashmir: Exploring Prospects and Tapping Potential' on 6 August 2021. The main highlights of the programme were lectures by progressive farmers, which included Padma Shree Bharat Bushan Tyagi, Sh. Sunil Kandela, Haryana and Sh. Vinod Mehta, Himachal Pradesh. These farmers have achieved success in organic farming and they shared their expertise and experiences with local farmers, filed functionaries and scientists. Among the scientific community, former Head, Department of Organic Agriculture, CSKHPK gave beneficial tips on organic hill agriculture.
- The Division of Statistics & Computer Science, FBSc organized in a row 3rd National Statistics Day- 2021 through two days virtual workshop at National level on 29-30 June 2021.

Training

- Farmer training on Nutrient Management in field crops on 2.7.2021 at Magnar, with 23 participants.
- Farmer Training on Propagation techniques in fruit crops on 7.7.2021 at KVK Poonch with 20 participants.
- Farmer Training on value addition of fruits and vegetables on 18.8.2021 at Dalera with 20 participants.
- Farmers Training programme on Napier grass root slips on 1.9.2021 at Degwar with 18 participants.
- Farmers Training on value addition of fruits and vegetables on 6.9.2021 at KVK Poonch with 17 participants.
- Vocational Training on cutting and tailoring for rural women and school dropouts on 12.8.2021 to 26.8.2021 (15 days) at Ajote with 20 participants.
- Training Programme on Lavender Cultivation for replication of successful model of lavender cultivation of District

Sher-e-Kashmir University of Agricultural and Sciences and Technology, Jammu

Workshop

1. Officers Monthly workshop on 5.8.2021 at KVK Poonch with 11 Participants.
2. Officers Monthly workshop on 11.8.2021 at KVK Doda with 17 Participants

Doda to Bani Sub- Division of District Kathua (Through Google Meet) on 4.7.2021 at Doda with 40 participants.

- Training Programme on ecosystem management for sustainable fisheries on 10.7.2021 at Doda with 35 participants.
- Awareness Programme on tree plantation on the eve of ICAR Foundation Day on 16.7.2021 at Bhaderwah with 28 participants.
- Training Programme for extension personnel integrated nutrient management in field crops on 23.07.2021 at Bhaderwah with 38 participants.
- Training Programme for extension personnel on extension teaching methods for technology transfer on 24.7.2021 at Bhaderwah with 35 participants.
- Special programme under Jal-Shakti Abhiyan (Distribution of vegetable seed for Nutri-garden establishment) on 12.8.2021 at Neota 32 participants.
- Vegetable based integrated fish farming on 13.8.2021 at Jhanana with 17 participants.
- Training programme on water use efficiency and appropriate crops on 16.8.2021 at Gutasa with 18 participants.
- Training programme on micro-enterprises for income and employment generation on 18.8.2021 at Droundi with 32 participants.
- Agronomic practices for Mash Cultivation on 20.8.2021 at Rounda with 28 participants.
- Formation and management of FPOs on 13.9.2021 at Kishtwar with 12 participants.
- Problems in promoting trout farming on 14.9.2021 at KVK HQ with 11 participants.
- Vermi-composting as an enterprise (3 Days Vocational Training Programme) on 22.9.2021, 23.9.2021 and 24.9.2021 at Berreru with 16 participants.

Other trainings held during this period are as follows:

- Two months training programme provided to budding startups under the Project

entitled “Rashtriya Krishi Vikas Yojana – Remunerative Approaches for Agriculture and Allied Sectors Rejuvenation (RKVY-RAFTAAR), (R-ABI)”, project of SKUAST-Jammu run by the Division of Agricultural Economics & ABM, to guide them in their Agri-entrepreneurship journey.

- 10 days training programme for farmers on “Hands on practice in artificial insemination and reproductive disorders in dairy animals” w.e.f. 12-21/7/2021. A total 15 dairy farmers from different villages of Jammu participated.
- One training programme on “Rabies Awareness” organized at the faculty campus for 20 farmers on 12-8-2021. The participants were pretested using structured questionnaire and their knowledge, attitude and practices towards rabies were assessed.
- Two days training programme on “Dairy Farming” w.e.f. 11-12 August 2021 at FVSc&AH, R. S. Pura, under RKVY project entitled “Livestock Management for Health and Higher Productivity” was given to 20 beneficiaries.

Farmers' Fair

- Farmers' fair organized at SKUAST-Jammu Chatha during the visit of Shri Narendar Singh Tomar (Union Minister), Shri Kailash Choudhary (MoS) and Smt Shobha Karandlaje (MoS), Ministry of Agriculture and Farmers Welfare, Government of India on 10.9.2021.

Seminar/Webinar

- Organization of 15 days course on ‘Integrated Nutrient Management (INM) for Input Dealers’ at KVK Jammu, KVK Rajouri, KVK Doda, KVK Reasi and KVK Poonch.

- Webinar for the teachers and students of Government Degree College, R.S. Pura on World Rabies Day, 28 September 2021 was conducted. The theme of the webinar was “Rabies: Facts, Not Fear”. The participants were made aware on the facts associated with rabies etiology, transmission, control and prevention.
- Webinar organized on the topic “Way Forward to Atmanirbhar Bharat through Agri-Entrepreneurship” on 23.9.2021 in the division of Agricultural Economics & ABM, FoA. It was an informative and thoughtful session, which exposed the participants to the current practices and trends in the field of agriculture and its allied sectors, and the way forward through agri-entrepreneurship. The participants came from diverse backgrounds like academicians, trainers, industry experts, managers, students and budding entrepreneurs.



Tamil Nadu Agricultural University, Coimbatore

International Webinar Series on Natural Resource Management for Agriculture

International Webinar Series on 'Natural Resource Management for Agriculture-Potentials and Prospects' was organized by the Directorate of Natural Resource Management (DNRM), TNAU, Coimbatore during 23-27 August 2021 in commemoration of the Golden



Jubilee Celebrations of TNAU, Coimbatore. Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore inaugurated the webinar series and delivered the Presidential address. Dr S. K. Chaudhari, Deputy Director General (Natural Resource Management), ICAR, New Delhi in his inaugural address emphasized the role of soil-water- energy nexus in the era of climate change. Mr Hillel Magen, Former Director, International Potash Institute, Switzerland delivered the keynote address online from Israel. Dr P. Murugesu Boopathi and Dr K. Ramasamy, Former Vice-Chancellors of TNAU besides Dr M. Velayutham, Former Director, National Bureau of Soil Survey and Land Use Planning (NBSS & LUP), Nagpur delivered special addresses. The World Food Prize Laureate and Director, Carbon Management and Sequestration Centre, Dr Rattan Lal, Ohio State University, USA and Laureate Professor Dr Ravi Naidu, Founder Director, Global Centre for Environmental Remediation (GCER), University of New Castle, Australia deliberated. Besides, several scientists of National and International repute delivered technical lectures.

International Conference on Plant Protection for Vegetable Cultivation

Agricultural College and Research Institute (AC&RI), Eachangkottai organized an International Conference on 'Emerging Trends in Plant Protection for sustainable Vegetable Cultivation' during 25-26 August, 2021 in commemoration of Golden Jubilee year of TNAU.

Dr A. Velayutham, Dean, AC&RI,



Eachangkottai welcomed the gathering. The Conference was virtually inaugurated by Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore. Shri T. Venkatakrishna, Chief General Manager, NABARD, Chennai offered felicitations. Totally, 12 technical sessions on 12 different themes were organized. There were 19 plenary and keynote speakers, 41 oral presentations and 83 poster presentations through online and offline mode. For the Valedictory session, Dr C. Anandharamakrishnan, Director, Indian Institute of Food Processing Technology (IIFPT), Thanjavur was the Chief Guest and Dr A. S. Krishnamoorthy, Registrar, TNAU was the Guest of Honour. Around 170 delegates from various Universities all over the world participated through online and offline mode.

International Horticulture Conference organized

The International Horticulture Conference (IHC 2021) - Next Generation Horticulture was organized by HC&RI, TNAU, Coimbatore in collaboration



with Society for Promotion of Horticultural Science and Technology on 16.9.2021. Dr L. Pugalandhi, Dean (Horticulture), Coimbatore welcomed the gathering. Dr N. Kumar, Vice-Chancellor, TNAU presided and delivered the presidential address. Dr B.M.C. Reddy, Former Vice-Chancellor, Dr Y.S.R. Horticultural University, Andhra Pradesh delivered the keynote address and Shri D. Sathiyam, IFS, Secretary, Spices Board, Cochin delivered the special address. Dr Jayasankar Subramanian, Professor, Tree Fruit Breeding and Biotechnology, University of Guelph, Canada delivered the keynote lecture. The 'Life time Achievement' award was conferred on Dr Jayasankar Subramanian, 'Best Farmer' award was given to Mr Pavala Rajan, Farmer of

Pattiveeranpatti, Dindigul district, 'Outstanding contribution in Horticulture' award to Dr L. Pugalandhi, Dean, HC&RI, Coimbatore and Dr T. Saraswathi, Professor (Horticulture) and 'Young Scientist' award was presented to Dr A. Subbiah, Assistant Professor and Head (i/c), Grapes Research Station, Theni and to Dr C. Kavitha, Assistant Professor, Department of Fruit Science, HC&RI, Coimbatore. A total of 350 National and International participants attended the Conference both online and onsite.

Global Rice Conference 2021

An International Conference entitled 'Global Rice Conference 2021:

Deliberations on Advances in Rice Research' was jointly organized by Tamil Nadu Rice Research Institute (TRRI), Aduthurai and Indian Institute of Food Processing Technology (IIFPT),



Thanjavur at IIFPT, Thanjavur during 24-25 September 2021. Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore inaugurated the conference and released the Book of Abstracts of the conference and Compendium of Permanent Manurial Experiments conducted for 30 years at TRRI, Aduthurai. The Vice-Chancellor was also honoured with 'Pro-Farmer Award'. Dr A.K. Singh, Director, IARI, New Delhi delivered the Presidential address online in which he highlighted the herbicide tolerant mutant named after Dr S. Robin. Dr S. Uma, Director, ICAR-NRC for Banana, Trichy, Dr M. Nagarajan, Principal Scientist & Head, IARI-Regional Centre, Aduthurai and Mr K. Balamurugan, DDM, NABARD, Thanjavur

felicitated. Dr C. Anandharamakrishnan, Director, IIFPT, Thanjavur, emphasized the importance of reducing the post-harvest losses in rice. Dr Raman Meenakshi Sundaram, Director, ICAR-IIRR, Hyderabad delivered Special address.

National/State level Workshops organized

Workshop on Applications of Machine learning and Deep learning in Agriculture

To orient the young faculty on the unprecedented spike in artificial intelligence and to decipher the concept and algorithm of machine learning and deep learning, a Workshop on 'Applications of Machine learning and Deep learning algorithm in Agriculture' was



conducted under the IQAC (Internal Quality Assurance Cell) of the Directorate of Planning and Monitoring, TNAU, Coimbatore during 28-30 July 2021. Dr N. Kumar, Vice-Chancellor in his presidential note highlighted the significance of machine learning in database analysis and research in the changing digital world. Guest speakers from Gandhigram Rural Institute (Deemed to be University), Dindigul viz., Dr P. Shanmugavadivu, Professor and Head, Department of Computer Science and Applications and Dr G. Kanimozhi, UGC Project Fellow delivered the technical sessions and provided hands on experience on various topics including Python Programming in Agriculture, AI models using agricultural database and Neural Networks. Nearly 165 scientists belonging to 2014 batch participated both Online and Offline.

Workshop on Emotional Intelligence for Personal and Professional Success

Workshop on Emotional intelligence for

personal and professional success was organized by the Internal Quality Assurance Cell (IQAC) of the Directorate of Planning and Monitoring, TNAU,



Coimbatore during 5-6 August 2021. Dr N. Kumar, Vice-Chancellor presided and deliberated on the significance of Emotional Intelligence to subside emotional outbursts and insisted on the need to control the temperament while dealing people at various levels with cordiality and humility. Guest Speakers were Mr R. Narasimha Iyengar, Corporate Trainer and Consultant and Dr R. Deepa, Associate Professor and Head, Faculty of Human Resources, Chief Coordinator, PSG Center for Academic Research and Excellence, Coimbatore. Nearly 220 Scientists participated both offline and online.

National / State level Trainings / Awareness Programmes Organized

Programme for boosting Agricultural Exports in Tamil Nadu

Directorate of Agribusiness Development, TNAU, Coimbatore organized a Programme on Agricultural

Exports funded by APEDA (Agricultural and Processed Food Products Export

Development Authority), New Delhi on 26.8.2021. The

presidential address was given by Dr N. Kumar, Vice-Chancellor, TNAU Coimbatore. Dr



M. Angamuthu IAS, Chairman, APEDA, New Delhi delivered special address. Major events including signing MoU between TNAU and APEDA, exhibition on agricultural exports by FPOs, start-ups and Exporters besides a Capacity building programme on Agricultural Exports were organized.

State level Awareness Programme on Nutritional disorders in Crops

Department of Crop Physiology, TNAU Coimbatore organized a State level Farmers' Awareness

Programme on 'Diagnosis and Management of Physiological and Nutritional disorders in Crops' on



29.7.2021 in commemoration of TNAU Golden Jubilee Year - 2021.

The programme was inaugurated by Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore. The technical sessions were handled by the scientists of Department of Crop Physiology. Farmers and scientists interaction session was also conducted. Around 500 farmers and KVK scientists across the State participated in the programme through online mode.

Training on Quality Biofertilizer Production for Agricultural Officers

Training programme on 'Recent trends in quality control of biofertilizers' was organized by the Department of Agricultural Microbiology,



Directorate of Natural Resource Management, TNAU, Coimbatore during 23-24 September 2021. Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore in his inaugural cum presidential address mentioned about the importance of

biofertilizers in supplementing chemical fertilizers. Dr S. Marimuthu, Associate Vice-President, T-Stanes Company delivered the special address. Totally, 28 Agricultural Officers involved in the production and quality control of Biofertilizers in the Department of Agriculture, Tamil Nadu participated.

Extension Officials trained on Biocontrol Agents

Centre for Plant Protection Studies, TNAU, Coimbatore organized a Refresher course on 'Hands on Training on the Production Technologies of Biocontrol Agents for Crop Pests, Diseases and Nematodes' during 27.9.2021 to 1.10.2021 with the financial assistance from the Department of Agriculture and Farmers Welfare,



Government of Tamil Nadu. Preparation of different type of formulations for biocontrol

agents and their field application were also demonstrated during the refresher course. Dr N. Kumar, Vice-Chancellor, TNAU presided over the Valedictory function and elaborated the efforts taken by the University in managing invasive and native insect pests using biocontrol agents. Totally, 22 Extension Officials associated with State Biocontrol Laboratories across the State participated.

University of Agricultural Sciences, Bengaluru

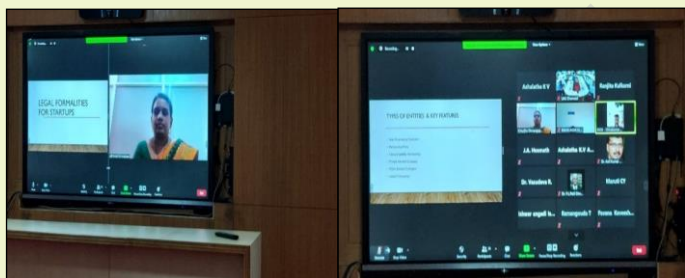
Skill Development Training

ICAR-KVK, Tumakuru-1 organized a 3-day Skill Training Programme from 28 to 30 July 2021, in collaboration with "Women and Child Welfare Department Tiptur" for the Women SHG members of the taluk. During the programme the Skill training on Value addition, Branding and Market linkages in

minor millets, Coconut and Tamarind was delivered to the participants. Programme was inaugurated by Dr Nagappa Desai, Scientist (Horticulture) and presided by Shri Omkarappa, CDPO, Tiptur. Dr Roopa B Patil, Scientist (Home Science), Dr O.R. Nataraju (Senior Scientist and Head) and Dr M.H. Shankara, Scientist (Ag. Extn.) were the organizers of the programme and 30 trainees participated.

University of Agricultural Sciences, Dharwad

Group of Students of UAS, Dharwad Ready to Establish Startup Companies



Guest speaker Mrs Vinutha, Partner of Vinutha Rashmi Associates presenting on startup formalities during the webinar at UAS, Dharwad

Thirteen group of students of UAS, Dharwad are registering Startups companies. They have been promoted under World Bank funded Institutional Development Plan. Student groups are working on various problems faced by the farmers. They include plant media, planting equipment, paper from maize waste, labor management application, health drink from areca nut, pesticides etc. Student groups have developed the products and are ready for representation. In this regard a webinar on "Legal Formalities in Start-ups" was organised on 23.7.2021 at UAS, Dharwad. Guest speaker Mrs Vinutha, a partner of Vinutha Rashmi Associates, oriented various formats of companies and advised to register under startup India. The webinar was organised by Dr P.U. Krishnaraj and Dr S.S. Dolli. Other nodal officers Dr K.V. Ashalatha and Dr Vasudev

were presented in the webinar. All the partners of thirteen student groups participated in the webinar and got their doubts clarified in startup registration.

Time to Integrate Jana-Jala-Jameen- Janvar and Jangal to Make Svavalmibi Bharat

Quality and safety of our food contribute significantly to human health. Organic farming has the potential to enhance the quality of life, improve rural livelihood, bring in sustainability emphasized the Formerly National Director, NAIP (National Agricultural Innovation Project), New Delhi, Dr Bangali Baboo while inaugurating a 3-day Certification Course on Organic Certification organized by UAS, Dharwad under World Bank funded NAHEP-ICAR IDP on 26-28 July 2021. He expressed that organic farming is based on Integrated Farming System inclusive of crops, soil, water and natural resources. Considering all these he brought out the significance of chemical free farming in enhancing quality of life. Vice-Chancellor, UAS, Dharwad, Dr M.B. Chetti, speaking on this occasion emphasized that in India it is time now to produce quality food for better wellbeing as our country has already reached sustainable production. Member, Board of Management, UAHS,



Inaugural address by Former National Director, NAIP, New Delhi, Dr. Bangali Baboo, during the three days webinar on "Certification Course on Organic Certification" organized by UAS, Dharwad



Member, Board of Management, UAHS, Shivamogga, Sri. Aruna Kumara V K presented on 'Organic Movement in Karnataka'

Member, Board of Management, UAHS, Shivamogga, Sri. Aruna Kumara V K presented on 'Organic Movement in Karnataka'

Member, Board of Management, UAHS,

Shivamogga, Shri Arun Kumara V.K. and renowned organic farmer brought out the history of organic movement in India. He further urged all to observe organic way of life, Organic Dharma so that it can promote Aathma vikas, Grama vikasa and Rashtra vikasa. He emphasized to integrate Jana-Jala-Jameen-Janvar and Jangal as envisaged in the principles of organic farming to make farmer self-reliant (svalalambi). The content of organic farming policy of the state was elaborately presented, emphasizing the need for certification of organic farming production system. More than 145 students and members of faculty participated in the online certification course.

My Health My Responsibility: COVID 19 Awareness Campaign

Exercise maximum caution to avoid the possible outbreak of third wave of COVID19 urged Vice-Chancellor, Dr Mahadev B. Chetti. He was gracing the My Health My Responsibility; a Corona-Virus awareness campaign/program organized by NAHEP-IDP, University of Agricultural Sciences, Dharwad in association

with Super hits 93.5 Red FM and HDFC bank on 13.8.2021 at Farmers Knowledge Center, UAS campus for creating awareness

among UAS staff, students and for Radio audience. He further urged everyone to follow the safety protocols all time to safeguard ourselves and for sake of others as well. He also commended the work of Government of India and Government of Karnataka in controlling the outbreak of COVID 19 in recent times. He said that UAS, Dharwad is working towards the



Vice-Chancellor, Dr. Mahadev B. Chetti addressing the My Health My Responsibility: Covid-19 Awareness Campaign organized at UAS, Dharwad in association with Super hits 93.5 Red FM and HDFC bank

same by organizing vaccination drive for the UAS staff and students to make a safe campus against COVID 19.

Addressing the gathering the radio Jackie Mr Mahi stated that they are organizing COVID19 awareness campaigns at all Government offices, institutions and public sectors for the benefit of people and do their part in preventing the disease and building healthy nation. He conveyed, the program organized in UAS, Dharwad will be broadcasted in Super hits 93.5 Red FM shortly.

Academia – Industry Interface Conclave on Agri Start-ups-way ahead

Agriculture is the oldest profession. Man was roaming in the forest collecting food.

When he started cultivating crops rather than gathering food, he became *Homo sapien*. But till today the

profession is not getting enough returns said Chairman, KVG Bank, Dharwad Shri P. Gopikrishna. He was delivering key note address in Academia-

Industry Interface Conclave on Agri Start-ups-way ahead organized by World Bank funded Project NAHEP-IDP at UAS, Dharwad on 30-31 August 2021. Famines of sixties and seventies led to shortage of food grains and milk in India and forced import of food grains from abroad. Later, agriculture was given importance in successive Five Year Plans that led to green



Student showing his model to Chief Guest Chairman, KVG Bank, Dharwad Shri. P. Gopi Krishna, and dignitaries in two days' workshop on Academia-Industry Interface Conclave on Agri start-ups at UAS, Dharwad.



Two days' workshop on Academia-Industry Interface Conclave on Agri start-ups: Way ahead at UAS, Dharwad

revolution resulting in abundant production of food grains. Out of 218 million ha 50% land has already been brought under irrigation. But, unfortunately even 75 years after independence, the farmers are not getting enough from agriculture. Hence, the Prime Minister of India, Shri Narendra Modiji has called for Doubling of Farmers' Income by increasing yield, reducing input cost and increasing the market price. Due to mobile revolution, we can easily reach farming community within a short period of time. He called upon agri graduates to stand on their own legs by becoming agri-entrepreneurs.

"When IITs and IIITs can produce entrepreneurs why the Agricultural University cannot produce agri-start-ups", asked the former General Manager NABARD Shri R.M. Kummur. Start-ups in agriculture does not mean just cultivating crops but, number of byproducts and related industry can be established. More than 250 byproducts can be prepared by maize and more than 100 byproducts from soybean. Since maize and soybean are the major crops of this region, several start-ups are possible added Dr Kummur. Likewise, many byproducts can be prepared from many other crops. The problem of funds for the start-ups may be addressed through CSR funding by the incubation centers. President of the function Vice-Chancellor and team leader of IDP Dr Mahadev B. Chetti said India has achieved 305 million tons of foodgrains but, not enough infrastructure facilities are available to store the foodgrains. As a result, we are losing lot of foodgrains every year. One should bear in mind that, grains saved is the grain produced, he stressed. Therefore, Government of India earmarked Rs one lakh crore for agricultural infrastructure development. Karnataka is pioneer in framing agri-start-up policy. Government of India has earmarked Rs 100 crore for establishing 50,000 agri-start-ups and Karnataka aims to establish at least 5000 agri-start-ups. He also mooted the idea of one

student one teacher on the lines of one district one product. He also highlighted that the objective of the conclave is to motivate and support students for establishing their own agri-start-ups. Director of Research, Dr P.L. Patil proposed vote of thanks, and Professor Dr S.S. Dolli welcomed the guests and introduced the programme. The prototypes prepared by the students were also unveiled during the programme. Director of Extension, Dr Ramesh Babu, Nodal Officer, Dr P.U. Krishnaraj, Co-ordinator, Dr K.V. Ashalatha, mentors and budding entrepreneurs participated in this two-day conclave.

Teacher's Day Celebration

Role of a Good teacher is vital in nation building and development said Associate Professor, KRC, Degree College,

Bailhongal Dr Sangamnath M. Lokapur. He was speaking as chief guest in the teacher's day celebration at VC's conference hall



Teacher's day was celebrated at UAS, Dharwad. Dr. Sangamnath M. Lokapur was Chief Guest and Vice-Chancellor; Dr. Mahadev B. Chetti presided over the function.

of UAS, Dharwad on 5.9.2021. Further, he added that, life of Dr Sarvapalli Radhakrishnan is a role model for all the teachers, the students should not be confined to textbook syllabus but, they should be enthused to have creativity in life. Floral tribute was offered to the Dr Sarvapalli Radhakrishnan's photo on the occasion.

President of the function and Vice-Chancellor, Dr Mahadev B. Chetti urged all the teachers to inculcate value based teaching even in online classes during COVID 19. Members, Board of Management Shri Shashimouli Kulkarni and Shri Y.N. Patil were present. Registrar, Shri Ramesh Desai proposed vote of thanks. Director of Research, Dr P.L. Patil welcomed all and introduced the guest. Officers and teachers

of the University were also present in the function.

Application of Drone Technology in Crop Protection



Vice-Chancellor, UAS, Dharwad Dr. M. B. Chetti, inaugurated Research on Application of Drone Technology in Crop Protection at UAS, Dharwad

In the intensified modern and mechanized agriculture, Drone Technology has been widely adopted in carrying out several agricultural operations starting from sowing, site specific application of fertilizers, pesticides, weedicides including the detection of impact of biotic and abiotic factors on crop growth under precision farming said Vice-Chancellor, UAS, Dharwad Dr M.B. Chetti. He was speaking after initiating Research on Application of Drone Technology in Crop Protection at UAS, Dharwad. Further he said the major insect pests like defoliators and the foliar fungal diseases will be assessed in both Drone and knapsack sprayer methods in soybean. This is the first project studying the suitability of drone application of insecticides in agriculture and its possible adaptation by the farmers. During the current season the technology will be assessed in soybean and rice and based on the suitability, the same will be expanded in other important crops of this region. Chief Investigator of the Project, Dr D.N. Kambrekar said in this project the pest control efficacy of insecticides with drone technology is being assessed in comparison with the traditional manually operated knapsack sprayer. In addition to the control efficacy, other important aspects like impact of insecticide spray on beneficial insects, phytotoxicity effects on the crop, time taken and the cost economics of drone application of insecticides will be assessed.

This project sponsored by M/s Syngenta India Ltd, Pune is in operation at UAS, Dharwad in soybean and paddy where insect pests and disease problem is immense.

Fifteen-Day Integrated Nutrient Management Certificate Course

“Farmers have to use the nutrients judiciously to reduce cost of cultivation and increase net returns”, said Director of Extension Dr Ramesh Babu. He was inaugurating fifteen-day integrated nutrient management certificate course for the Agriculture Input Dealers of Haveri district in Staff Training Unit of UAS, Dharwad organized by SAMETI (N) in collaboration with Department of Soil Science and Agriculture Chemistry, Agriculture College, Dharwad, Department of Agriculture and MANAGES, Hyderabad. In this regard, this certificate course will definitely help in improving the fertilizer knowledge of agricultural input dealers he further added. Professor and Head, Department of Soil Science and Agriculture Chemistry, College of Agriculture, Dharwad Dr V.B. Kuligod informed that all the scientific knowledge in efficient management of soil, water and fertilizer for improved agricultural production will be imparted in the training programme. Initially, Professor and Head, Staff Training Unit and Course Director, Dr Sunil V. Halakatti welcomed all, and outlined the course syllabus as well as its implementation. Professor and State Nodal Officer, DAESI, Dr. M. Gopala proposed vote of thanks, facilitator Dr S.D. Kololgi anchored the programme. 30



Director of Extension Dr. Ramesh Babu inaugurated Fifteen days integrated nutrient management certificate course at Staff Training Unit, UAS, Dharwad for Agriculture Input Dealers of Haveri district.

Agricultural Input Dealers of Haveri district participated in this certificate course.

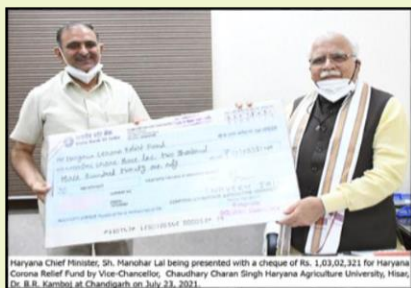
ASSORTED ACHIEVEMENTS

Chaudhary Charan Singh Haryana Agricultural University, Hisar

COVID Fund

CCS Haryana Agricultural University Employees Donate Rs 1 Cr for COVID Fund

Vice-Chancellor of Chaudhary Charan Singh Haryana Agricultural University (HAU), Prof. B.R. Kamboj, presented a cheque of Rs 1,03,02,321 to Haryana Chief Minister Manohar Lal Khattar for



Haryana Corona Relief Fund. While presenting the cheque to the Chief Minister at his office Kamboj said this donation had been made voluntarily by the employees of the University. He said that the teachers and non-teaching staff of the university had voluntarily decided to donate ten percent of their basic salary of one month for Haryana Corona Relief Fund. Notably, making decision to voluntarily donate for this noble cause, Group D employees of the University have also donated their one day salary. The Vice-Chancellor apprised the Chief Minister that the University has adopted six villages of the district and availability of approved COVID-19 medical kits has been made through District Health Department. Apart from this, COVID-19 check-up camps and vaccination camps were organized in the university campus. Such camps were also organized at the KVK's and Research Stations of the University.

Haryana Vidhan Sabha State Petition committee Members Visit CCS HAU

A meeting of the State Petition Committee of the Haryana Government was held at CCS HAU, Hisar which was organized under the Chairmanship of Yamunanagar MLA Ghanshyam

Das Arora. After the meeting, all the MLAs were taken to various



State Petition Committee members with University VC Prof. B.R. Kamboj during meeting

Departments and Research Farm of the University. Leading the visit, the Vice-Chancellor of the University, Prof. B.R. Kamboj said that all the MLAs had come to the University as part of the meeting of the State Petition Committee of the Vidhan Sabha. After this, they visited Cotton Section, Giri Centre, Deen Dayal Upadhyay Center for Organic Excellence, Agri Business Incubation Centre, College of Agricultural Engineering and Technology, Central Lab etc. All the MLAs in one voice praised the research work being done by the University for the benefit of the farmers, and the agricultural advice given from time to time was very useful. The Committee Chairman Ghanshyam Das Arora said that the University is making continuous efforts for the farmers, due to which the state has an important place in the central food grain storage. Apart from this, the yield of farmers' crops is continuously increasing and they are being provided with advanced varieties of different crops and modern technologies by the University.

Independence Day Celebrated with Pomp and show in CCS HAU's Campus School

At the inauguration of the Independence Day Celebration program, the Chief Guest, VC, CCSHAU, hoisted the tricolor flag and gave the

message of peace and unity by releasing colorful balloons in the air. After this the program started with the national anthem. The Chief Guest said that since independence, the country has made progress everywhere, be it technology, research, playground, education or any other field. We should never forget the sacrifice of the martyrs in the freedom of the country, due to which today we are breathing freely in the open air. The people of Haryana have made an invaluable contribution in the freedom struggle. Even at present, the contribution of Haryana in the field of agriculture, sports and defense is incomparable.



Prof. B.R. Kamboj, VC, CCS HAU and others

CCS HAU Officers and Employees Took Oath of Goodwill

Sadbhavna Diwas program was organized at the Vice-Chancellor Secretariat of CCS HAU, Hisar. During this Vice-Chancellor Prof. B.R.



CCS HAU, VC, Prof. B.R. Kamboj administrating the oath

Kamboj administered the oath of goodwill to the officers and employees of the University and said that the purpose of celebrating *Sadbhavna Diwas* is to inculcate the spirit of national integration among the people of all religions, languages and regions. Apart from this, its main objective is to remove the tendency of violence, and develop compassion among the people. He said that we should work for the emotional unity and harmony of the people of India without any

discrimination of caste, sect, region, religion or language.

Book Exhibition Organized on The Occasion of Hindi Diwas in Nehru Library of CCS HAU

We have to make collective efforts to give proper place to Hindi language. Organizing *Hindi Diwas* only for one day will not bring success in this work. To promote Hindi, other people also have to be inspired



Prof. B.R. Kamboj VC CCS HAU and others visiting Nehru Library

towards it. These thoughts were shared by the Vice-Chancellor of CCS HAU and Guru Jambheshwar University of Science and Technology, Hisar Prof. B.R. Kamboj after visiting the two-day book exhibition organized in the Nehru Library of the University on the occasion of *Hindi Diwas*. He said that the history, texts, novels etc. of our country are mostly in Hindi and are a storehouse of knowledge. Hindi language is very rich and we should respect it. He said that in Hindi language, the countrymen can freely express their feelings, thoughts and messages. Hindi is considered a very simple and suitable language for communication.

Art Festival

Haryanvi Kala Utsav was organized at CCS HAU, Hisar. In the program, the Vice-Chancellor of CCS HAU and Guru Jambheshwar University of Science and Technology, Hisar, Prof. B.R. Kamboj was present as the



Prof. B.R. Kamboj, VC, CCS HAU with the artists

Chief Guest while Sanjay Bhasin, Director, Haryana Kala Parishad was the special guest. On this occasion, the Chief Guest said that programs like Haryanvi Kala Utsav are playing an important role in saving Haryanvi art and culture. Through such programs, various genres like ragini, bhajan, folk song and folk dance etc. are developed. He said that such events were almost stopped due to the Corona epidemic, in such a situation, organizing cultural programs helps to overcome the mental depressions due to this epidemic to a great extent. The program was organized by Music and Dramatic Club of Directorate of Students' Welfare under the joint aegis of Haryana Kala Parishad Hisar Division under the Amrit Mahotsav of Azadi. Sanjay Bhasin, Director, Haryana Kala Parishad said that the corona epidemic has had the biggest impact on the folk artists. Life has started coming back on track with such events, which is a good sign.

Smart Class Room Inaugurated in CCS HAU's Home Science College

The students of Indira Chakravarti Home Science College of Chaudhary Charan Singh Haryana

Agricultural University will be seen studying in smart class rooms in future. This will give them an opportunity



Prof. B.R. Kamboj, VC, CCS HAU inaugurating the Smart Class Room

to excel in their field. This view was shared by the Vice-Chancellor of the University, Prof. B.R. Kamboj as the Chief Guest at the inauguration of Smart Class Room at Indira Chakraborty Home Science College. He said that modern services including internet services, multimedia, touch screen LED, air-conditioner and other essential services would be provided to the students in this smart class room. It is our endeavor to convert all lecture halls into

smart class rooms soon. He said that the University always endeavors to provide best facilities to the students.

CCS HAU's M.Sc. Final Year Student Becomes Flying Officer

Prateek, a final year MSc student of CCS HAU, Hisar, has been selected for the post of Flying Officer in the Indian Air Force. The continuous selection of students from



CCS HAU, VC, Prof. B.R. Kamboj with Flying Officer Prateek

the University in this way in various higher educational institutions and services is a great achievement in itself. University Vice-Chancellor Prof. B.R. Kamboj congratulated Prateek and wished him a bright future. Raised in the rural area, Prateek is the only child of his parents. In the year 2019, he participated in the Republic Day parade held at Rajpath in Delhi as a cadet of the NCC unit of the University. From there, due to the disciplined life of the officers and soldiers of the army and the passion to serve the country, the desire to serve the country was awakened in his mind and he started working day and night to achieve this goal. Besides, the University regularly organizes student and teacher exchange programs at the international level, under this, Prateek also did an internship from Massey University in New Zealand.

CCS HAU Student Selected to Pursue PG Course at ISRO

Shivanshi Yadav, a student of the College of Agricultural Engineering and Technology, Chaudhary Charan Singh Haryana Agricultural University, Hisar, has been selected to pursue post-graduation at the Indian Space Research Organisation (ISRO). She will pursue her post-graduation degree in geo-information science and earth observation

from Indian Institute of Remote Sensing (IIRS), a unit of ISRO at Dehradun. It is a two-year programme under which she will complete first year study in ISRO and second year study from University of Twente (ITC), the Netherlands. The Vice-Chancellor of the University, Prof. B.R. Kamboj said Shivanshi is one of the 10 students selected for this course from across the country. He said the University is getting in touch with world-class educational institutions for national and international level exposure for students.



Prof. B.R. Kamboj, VC, CCS HAU and others with Shivanshi

Extension

HAU Scientists will now Go from Village to Village to Test Soil-Water

Scientists of CCS HAU, Hisar will personally go to the farmers and check the soil and water of their fields. Now this facility will be available to the farmers through the nearest *Krishi Vigyan Kendra*, apart from the lab at CCS HAU, Hisar for soil-water testing. For this, the Vice-Chancellor of the University, Prof. B.R. Kamboj flagged off the Mobile Diagnostic-cum-Exhibition Unit (Soil-Water Testing and Exhibition Vehicle). The Vice-Chancellor said that in order to make the farmers more and more aware about soil-water testing and other techniques, the University administration has taken this decision for the benefit of the farmers.



Prof. B.R. Kamboj, VC, CCS HAU flagging off the vehicle

CCS HAU's E-Mausam Agriculture Service has found Place on the Website of Haryana Government and ICAR

The e-Mausam SMS service of Chaudhary Charan Singh Haryana Agricultural University, Hisar has found place on the website of Indian Council of Agricultural Research (ICAR) and e-Mausam HAU mobile app of Haryana Government. It is a matter of great pride for the University. The state government and ICAR have increased the prestige of the University by giving a place on their website. Giving this information, Vice-Chancellor Prof. B.R. Kamboj said that this service, which provides weather forecast and agricultural advice to the farmers of the state, is proving very beneficial for the farmers. Due to this, the farmers are getting rid of the problems in fixing the time for sowing, harvesting and embroidery related to crops and they are avoiding economic loss. He said that this free of cost e-weather service, which is proving to be a boon for the farmers, was started in the year 2011.



Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana

Academic

Additional Director General, NCC Visits GADVASU NCC Unit

Major General J. S. Sandhu, AVSM, Additional Director General, National Cadet Corps Punjab, Haryana, Himachal Pradesh and Chandigarh visited 1 Pb Remount & Veterinary SQN NCC at GADVASU. During his maiden visit to the University, Major General Sandhu inspected the facilities and functioning of the NCC Unit

and appreciated its fantabulous maintenance and up keep. He lauded the excellent efforts and support of GADVASU to the NCC Unit.



Dr Inderjeet Singh, Vice-Chancellor, GADVASU lauded the effort put up by the staff of 1 Pb R & V SQN NCC for training students in the best possible way even in the prevalent COVID 19 pandemic era.

Extension

Chief General Manager, NABARD inspected ongoing projects at Tarn Taran

KVK, Booh (Tarn Taran) organized field day on management of fruit fly in Cucurbit crops under the NABARD



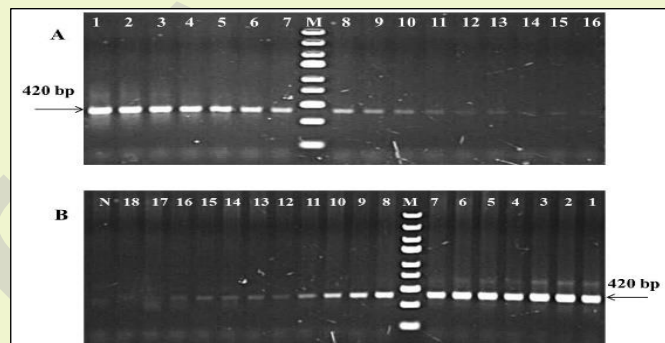
Funded Project entitled

'Development of low cost fruit fly traps for cucurbit vegetables and its demonstration at farmer's field in border area of district Tarn Taran in Punjab' at village Kasel (Tarn Taran). Dr. Rajiv Siwach, Chief General Manager, NABARD, Regional Office, Punjab & Chandigarh was the Chief Guest of the programme. Sh. R.K. Johari, AGM, NABARD, Punjab, Sh. Jaskirat Singh, AGM, NABARD, Amritsar and Tarn Taran also graced the occasion. Dr Rajiv Siwach monitored the activities of the project, interacted with the farmers and took their views for successful implementation of the project.

Kamdhen University, Junagadh

Research

Low-cost PCR technology for the diagnosis of common haemoparasitic diseases of animals



Amplification of the 18S rRNA gene of Piroplasm of domestic Animals

Department of Veterinary Parasitology, College of Veterinary Science & Animal Husbandry (KU), Junagadh has recently developed the laboratory protocol for the molecular diagnosis of haemoparasitic diseases caused by *Babesia*, *Theileria*, *Trypanosoma*, *Hepatozoon*, *Ehrlichia* and *Anaplasma* in various domestic and wild animals. A low-cost technology was developed by modifying the initial blood processing method for isolation of DNA and in PCR reaction without compromising the efficiency, specificity and sensitivity of the PCR test.

Moreover, the newly developed protocol is more advantageous in terms of easy to perform, less chance of cross-contamination, reduced test time and can be set up in resource constraint laboratories. The cost of blood processing was reduced by more than 95 % and the overall cost of PCR test was reduced by about 92 %. The sensitivity of newly developed PCR protocol (A) in comparison to PCR on purified DNA (B) isolated from double fold serially diluted *Theileria annulata* positive blood samples is shown in the Figure. The college and university authorities appreciated the efforts of Head of the Department, Dr Binod Kumar and

Assistant Professors, Dr B.J. Thakre and Dr Nilima Brahmbhatt.

Extension

Veterinary Clinical Camp organized at Bhanvad



Inaugural function



Clinical camp activities

A Veterinary Clinical Camp was organized by Shree Bhanvad Mahajan, Panjarapol Gaushala, Bhanvad in collaboration with College of Veterinary Science and Animal Husbandry, Kamdhenu University, Junagadh on 28 September 2021 at Bhanvad. Dr J.V. Vadalia, Dr K.H. Parmar, Dr N.R. Padaliya, Dr A.K. Bilwal and Dr Amruta Vasava along with postgraduate students from clinical departments and undergraduate students participated in this clinical camp. Sizable number of sick animals from Bhanvad and surrounding villages were brought for the treatment in the camp. During the camp, 138 animals were treated for different medical, surgical and gynecological ailments. In the camp, different clinical cases were treated such as medicinal cases (94), surgical cases (19) and cases of Gynecology (25). Additionally, 63,600 animals were dewormed with anthelmintic. A total of 264 livestock owners were direct beneficiaries of the camp. Different species of animals of Bhanvad and surrounding villages

got specialized treatment from the expert staff members of the College.

NSS Day Celebrated at CVSc & AH, KU, Junagadh



Active participation of students in Tree plantation programme

Every year, 24th September is celebrated as NSS day. CVSc & AH, KU, Junagadh celebrated NSS day through organizing 'Tree plantation programme' behind the Veterinary Clinical Complex (VCC) as a part of Green Initiative by NSS unit of the college. NSS volunteers of the college planted varieties of plants which will provide shade and shelter to the animals throughout the year and also prevent soil erosion behind the VCC building. The entire programme was organized under the guidance of Dr P.H. Tank, Principal and Dean of the college. In all, 50 saplings were planted to provide green cover. Dr Rupesh Raval, NSS, Programme Officer put his best efforts for organizing the event.

'Plastic free campus drive' organized at the College

A plastic free campus drive in and around college building was organized under 'Swachh Bharat Mission' by NSS unit of Veterinary College on 14 September 2021. Total 80 NSS volunteers along with



Plastic free campus drive

Programme officer (NSS) joined their hands and collected all the waste plastics, papers, stones and debris etc. and assembled at one place and disposed as per Government guidelines.

CVSc & AH, KU, Junagadh Donates to Charity

The staff members donated their contribution to NSS volunteers on 'Akhil Hind Andh Dhvaj Din'. On behalf of CVSc & AH, Junagadh, Dr P.H. Tank, Principal and Dean, Faculty of



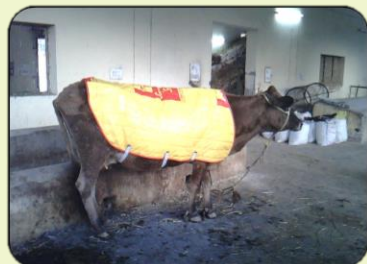
Donation of fund

Veterinary Science, KU donated collection of Rs 4,520 to National Association for the Blind, District Branch, Junagadh for the celebration of 'Akhil Hind Andh Dhvaj Din' through hands of Dr J.S. Patel, Associate Director of Extension Education, KU. Dr Rupesh Raval, Programme Officer, NSS, Dr A.R. Ahlawat, Associate Professor and Head, AGB, Shri Lalit Mehta and Ashwin Dangar, members of District Association were present on the occasion.

Sher-e-Kashmir University of Agricultural and Sciences and Technology, Jammu

Research

- Three vegetable varieties namely Radish (CR 45), Cherry tomato (SJCT 01/Jammu Cherry Tomato 09) and Broad bean (SJBB 01/RK 01) were released by State Variety Release Committee and notified vide letter no. DSCO/SSSC-Dev/2020-21/582-596 dated 30/12/2020; and have been nominated for Central Variety Release Committee.
- The threshold of THI as indicator of heat-stress in crossbred cattle and buffalo was defined, which will be helpful for adoption of suitable management



Jackets designed for dairy animals for Cold stress alleviation

practices at appropriate time.

- The management intervention with low cost inputs will help in amelioration of thermal-stress for sustainable production and welfare of animals.
- Precise and recent methodologies for assessing stress will be useful for researchers in other parts of country as well as for international research community to replicate the model for assessment and amelioration of thermal stress in their respective areas



Thermo-electric cooler for heat stress Amelioration

Academic

- Division of Food Science & Technology: One scholar completed Ph.D
- Division of Vegetable Sciences & Floriculture: UG/PG teaching started in offline mode w.e.f September 2021 by following all COVID protocols.

Extension

- Scientists from the Division of Vegetable sciences & Floriculture participated in T&V workshops and MGMG programme through online mode and delivered expert lecture in trainings organized by SAMETI-J and KVK, Doda.
- A total of 1,496 cases were treated in Clinical Complex of the FVSc & AH, R. S. Pura.
- Veterinary Infertility-cum-Awareness camp was organized by Division of Veterinary Gynecology & Obstetrics at Village Baja Chak, Tehsil Chakroi on 7.8.2021. About 26 farmers participated, and 87 farmers were benefitted.

- Minister of Agriculture & Farmers' Welfare, Sh. Narinder Singh Tomar along with Ministers of State for Agriculture & Farmers' Welfare Sushri Shobha Karandiaje and Shri Kailash Choudhary visited experimental area of



- Division of PBG on 10 September 2021 and interacted with scientific staff regarding latest technologies developed by Division.
- Dr V.B. Singh, Dr R.S. Sudan and Dr Bupesh Kumar conducted Production oriented Survey of rice under the aegis of IIRR, Hyderabad at Rajouri and Poonch District w.e.f 21 -23 Sep 2021.
- Dr Subhash C. Kashyap, Jr. Scientist delivered Radio Talk on "Mutte anaj diyan unnat vankian" broadcasted on Kissan Vani Programme on 21.9.2021.
- Celebration of ICAR Foundation Day in all Krishi Vigyan Kendras on was held on 16.7.2021
- Celebration of Horticulture week by all KVKs in July
- Organization of awareness programmes during Parthenium Week in all KVKs in August 2021
- Celebration of "Azadi Ka Amrit Mahotsav" and



organization of 'Food and Nutrition for Farmers' programme in all KVKs on 26.8.2021.

- Organization of National Campaign on Poshan Abhiyan and Tree Plantation on 17 September 2021 in all KVKs in association with IFFCO.
- Live Video Conferencing of Prime Minister on Climate Resilient Technologies and Methods in all KVKs on 28.9.2021.
- Promotion of FPO's in Poonch and Mandi Blocks of Poonch districts (12 awareness programmes organized at villages Degwar, Azmabad, Bedar, Degwar, Bedar, Rajpura, Kossalian, Ajote, Mandi); Basohli, Hiranagar and Marheen blocks of Kathua district; Mahore block of Reasi district and Kishtwar and Marwah blocks of Kishtwar districts.

Tamil Nadu Agricultural University, Coimbatore

7th Agricultural Graduate Students Conference 2021

In commemoration of TNAU Golden Jubilee Celebrations, 7th Agricultural Graduate Students Conference 2021 (AGSC) was conducted as a Hybrid event (Online & Offline) at TNAU, Coimbatore during 7-8 September, 2021. Dr V. Praveen Rao, Vice-Chancellor, PJTSAU, Hyderabad, the Chief Guest delivered the Keynote Address and Dr N. Kumar, Vice-Chancellor, TNAU inaugurated and delivered the Presidential Address. The theme of the conference was 'Food, Farmers and Future: Envisioning Amassment of Regenerating and Nourishing Food' with ten sub-thematic areas. Totally, 20



lead papers were presented by the eminent scientists across the world. Dr T. Janakiram, Vice-Chancellor, Dr YSR Horticultural University, Andhra Pradesh was the Chief Guest for the Valedictory Ceremony. Participants numbering 294 young researchers including M.Sc. Students, Ph.D. Scholars, JRFs, SRFs, PDFs, RAs and TAs from TNAU and other SAUs participated and presented their research outcome through oral and poster presentations.

AWARDS

Chaudhary Charan Singh Haryana Agricultural University, Hisar

CCS HAU'S Home Science College got 38th Ranking Across the Country

In a major achievement for Chaudhary Charan Singh Haryana Agricultural University (HAU), its Indira Chakravarty College of Home Science has secured 38th rank across the country in the National Institutional



IC College of Home Science

Ranking Framework (NIRF) released recently by the Union Ministry of Human Resource and Development for 2021. A total of 1,802 colleges from across the country were assessed for NIRF 2021. CCS HAU Vice-Chancellor Prof. B.R. Kamboj said it is a matter of pride for the State and faculty of the University, non-teaching staff, and students.

CCS HAU got Two National Awards under National Service Scheme

Chaudhary Charan Singh Haryana Agricultural University, Hisar has received two National Awards for its excellent performance in the field of social service. Both these honors

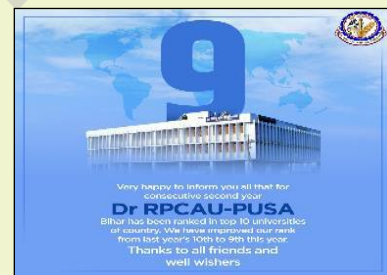
have been conferred by the President of the country, Ram Nath Kovind, by joining online. Under the award, the University has received a trophy, a silver medal and a cash amount of Rs 2 lakh to the NSS unit, and Rs 1.5 lakh to the individual awardee officer.



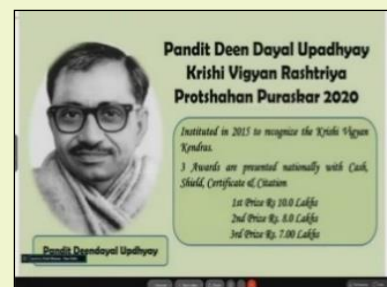
Award-winning NSS officer and volunteer with Prof. B.R. Kamboj VC CCS HAU and other officials

Dr Rajendra Prasad Central Agricultural University, Pusa

- The University has been ranked among top 10 universities of the country by India Today - MDRA survey, 2021 for second consecutive year. The university has improved rank from last year's 10th to 9th this year.



- On the occasion of 93rd ICAR Foundation Day, Krishi Vigyan Kendra, Piprakothi under RPCAU, Pusa was conferred



First Prize on "Excellence for Agricultural Institution Pandit Deen Dayal Upadhyay Krishi Vigyan Protshahan Puraskar-2020" on 16 July 2021.

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana

Best Krishi Vigyan Kendra Award

Krishi Vigyan Kendra (KVK) of GADVASU at Booh (Tarn Taran) bagged the 'Best KVK Award'

amongst 22 KVKs of Punjab in the Zonal Workshop of



KVKs Zone-1 organized by ICAR-ATARI, Zone-1, Punjab Agricultural University, Ludhiana in virtual mode. A total of 70 KVKs from Punjab and adjoining states participated in the workshop. The event was graced with the presence of Dr Trilochan Mohapatra, Secretary (DARE) & Director General, Indian Council of Agricultural Research, New Delhi, Dr AK Singh, DDG (Agricultural Extension), ADGs (Agricultural Extension) ICAR, Director ICAR-ATARI Zone-1 and Vice-Chancellors. Established in 2011, KVK, Booh has earned this prestige owing to consistent good performance. Dr Inderjeet Singh, Vice-Chancellor, GADVASU and Dr Rajbir Singh, Director, ICAR-ATARI, Zone-1, PAU, Ludhiana congratulated the KVK, Booh fraternity for earning the honour.

International Recognition for Scientist

International Register of Certificate Auditors (IRCA) and Chartered Quality Institute, United Kingdom recognised Dr Manish Kumar Chatli, Dean, College of Veterinary Science Rampura Phul as the Lead Auditor for Food Safety and Management System.



Scientist(s) bagged Sri Ramlal Agarwal Award

Scientist(s) from Department of Veterinary Medicine bagged the prestigious Sri Ramlal Agarwal Award, 2021 for research entitled 'Effect of Herbal Biocholine and Herbal Vitamin E Selenium in prevention of Ketosis, Hepatic Lipidosis and Subclinical mastitis in dairy animals. The award consisting of a Citation, Medal and Rs 25000 was bestowed to the team lead by Dr Sushma Chhabra, Principal Scientist.



Mid-Career Scientist Award

Dr Devendra Pathak, Senior Scientist, Department of Veterinary Anatomy bagged the Mid-Career Scientist Award during the IIIrd Annual Conference of Animal Physiologists Association (APA) and National Symposium on 'Physiological Interventions for the Augmentation of Sustainable Animal Production' organized by the College of Veterinary Science and Animal Husbandry, U.P. Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan, Mathura.



Student got selected for 'CREATE program'

Dr Shikha Chaudhary, Ph.D. student of the College of Animal Biotechnology got selected for the 'Collaborative Research and Training Experience (CREATE) program' on Genome editing for food security, organized by the University of McGill, Canada.



Kamdhen University, Junagadh

Dr Rupesh Raval received 'Best Thesis Award-2021'

Recently, Dr Rupeshkumar Jagdishchandra Raval, Assistant Professor, VCC, CVSc & AH, KU, Junagadh received Best Thesis Award from Society for Scientific Development in Agriculture & Technology for his outstanding research work on 'Clinical assessment of nutritional supplement and double Ovsynch protocol for estrus induction, synchronization and pregnancy rate in anestrus Jaffrabadi Buffaloes' carried out during his Ph.D. degree in the subject of Animal Reproduction, Gynecology & Obstetrics at Junagadh Agricultural University. Dr Raval was honoured with the award on the occasion of international web conference on innovative and current advances in Agriculture and Allied Sciences during 19-21 July 2021. The friends and teachers of college and universities congratulated him on his scientific achievement.



Dr Ahlawat received 'The excellence in Research award'

Dr A.R. Ahlawat, Associate Professor & Head, Department of Animal Genetics and Breeding, CVSc & AH, KU, Junagadh received 'The Excellence in Research Award' for his outstanding work in the field of Animal Genetics and Breeding for the year, 2021. Dr Ahlawat was honored with award by Om Shanti Narayan Foundation Trust on the occasion of First Birth anniversary of e-magazine *Vigyan Varta*.



Joshi Jay ranks first in Poet reading competition

Joshi Jaykumar Sureshbhai, 3rd, BVSc & AH student of CVSc & AH, KU, Junagadh participated in Kamdhenu University and state level 'Shri Zaverchand Meghani's written Poet reading competition' on the occasion of birth anniversary. Joshi Jay received the first rank at Kamdhenu University level. Poet reading competition was organized through online mode by DSW, KU, Gandhinagar. All the well-wishers and friends congratulated Jaykumar Joshi on his success.



Navsari Agricultural University, Navsari

Award for Academic Excellence by Education World to ASPEE College of Horticulture & Forestry and ASPEE Agribusiness Management Institute

Two constituent colleges of Navsari Agricultural University, Navsari namely ASPEE College of Horticulture & Forestry and ASPEE Agribusiness Management Institute were conferred the nationally acclaimed award for academic excellence by Asia Renowned 'Education World' magazine. Mr Bhavin Shah, CEO, Education World presented the most prestigious India



Higher Education Rankings 2021-22 to ASPEE College of Horticulture & Forestry, for securing 5th rank at the national level for Undergraduate education in Agriculture field. Further, ASPEE Agribusiness Management Institute was awarded 1st rank in Gujarat, and 9th in India for

Vocational and Skill Education by India Higher Education Rankings 2021-22.

Best Presentation Award to Krishi Vigyan Kendra, Surat



Krishi Vigyan Kendra, Surat received Best Presentation Award from ICAR-ATARI, Pune Dr M.S. Sankanur, Assistant Professor, CoF, NAU, Navsari was conferred with **Second Prize in National Level Photo Context** under innovative products from Bamboo category on the occasion of World Bamboo Day on 18 September 2021 organized by Banda Agricultural University, Banda, Uttar Pradesh.

Sher-e-Kashmir University of Agricultural and Sciences and Technology, Jammu

- Fellow of Veterinary & Animal Science-2021 by Veterinary & Animal Science Research foundation, India was awarded to Dr Neelesh Sharma, Assistant Professor, Division of Veterinary Medicine.
- Membership award of National Academy of Veterinary Sciences, India on the occasion of its 19th Annual convocation cum scientific convention on 25 Sep 2021 for the year 2019-20 to Dr Pratiksha Raghuwanshi, Asstt. Professor, division of Veterinary Physiology and Biochemistry.
- Membership award of National Academy of Veterinary Sciences, India on the occasion of its 19th Annual convocation cum scientific convention on 25 Sep 2021 for the

year 2019-20 to Dr Ankur Rastogi, Associate Professor, Division of Animal Nutrition.

- Fellow award of National Academy of Veterinary Sciences, India on the occasion of its 19th Annual convocation cum Scientific convention on 25 Sep 2021 for the year 2019-20 to Dr R. K. Sharma, Professor, Division of Animal Nutrition.

Tamil Nadu Agricultural University, Coimbatore

TNAU student sets a National Record in Classical Dance

Ms N.B. Subiksha, II B.Sc. (Hons.) (Horticulture) student of Horticultural College and Research Institute, TNAU, Coimbatore set a National Record and achieved the title 'The Wonder Classical Dancer' in the field of Dance performance. It was recorded in Magic Book of Record. She achieved this feat by dancing continuously for seven hours. Her sheer determination and dancing helped her to attain this record.



TNAU bagged three Awards at National Level





TNAU bagged three ICAR - National Awards viz., Green and Clean Campus Award (second position) for the Main campus with a cash incentive of Rs 8.00 lakh, PG Fellowship award (second position) under Horticulture and Forestry and Agricultural Engineering groups from Indian Council for Agricultural Research (ICAR), New Delhi. These awards were received by Dr N. Kumar, Vice-Chancellor, TNAU from Dr Trilochan Mohapatra, Director General, Indian Council of Agricultural Research, New Delhi during the ICAR and State Agricultural Universities' Vice-Chancellors' Conference held on 28.9.2021 at New Delhi. The Prime Minister of India in the presence of Union Minister for Agriculture and Farmers' Welfare, Government of India declared virtually the Green and Clean Campus Award 2021 to TNAU among the State Agricultural Universities. Vice-Chancellor appreciated the efforts taken by the team of scientists and students in achieving this feat.

University of Agricultural Sciences, Dharwad

UAS, Dharwad campus bags consolation (fourth place) Green and Clean Campus award 2021 at the National level

UAS, Dharwad campus bags consolation (fourth place) National level Green and Clean Campus award 2020-21. Vice-Chancellor, Dr Mahadev B. Chetti, received the prestigious Award on 28 September 2021 during the Agricultural Universities' Vice-Chancellors Conference by Prime Minister of India (Virtually). Director General, ICAR-DARE, Dr Trilochan Mohapatra, National Director, NAHEP, Dr R.C. Agarwal, National Coordinator

(IDP), Dr P Ramasundaram, Assistant Director General (Education), Dr P.S. Pandey and Member Secretary-ASRB, Dr. A.K. Srivastava, presented the citation along with the Cash prize of Rs 4 lakh.

The ICAR-NAHEP had called online applications from various Agricultural Universities and ICAR Institutions in the Country for the Green and Clean Campus Award during August 2020.

UAS Dharwad the recipient of NAHEP-IDP project registered as a participant for the Main Campus, Dharwad. The selection process was stringent and included data submission on green cover, number of trees and the abundance of species, Solid waste management of farm, residential, laboratory and office premises, Water resources and management, and Renewable Energy Initiatives undertaken for maintaining the Green and Clean Campus. Of the 34 applicants all over India, 24 qualified for final evaluation.

During the last two years, the University has taken several initiatives to increase the Green Cover, conserve flowering and fruit bearing plants by planting nearly 30,000 saplings. Various initiatives include the Biodiversity Park, Miyawaki Forest Development, Jack Garden, Avocado Garden, Jamun garden, water apple garden and custard apple gardens.

Solid waste management is channelized with provisions made for wet and dry waste, on-site waste segregation, recycling and composting facilities. Waste paper generated in the campus is collected, recycled and products like files, folders, envelopes and bags are made for sale within the campus. Waste PET bottles are processed to pellets that is planned to be processed into sportswear. Biomedical waste is segregated as per the colour codes and handed over to authorized agency. E-waste is ready for handing over to the authorized agency.

Vice-Chancellor, Dr Mahadev B. Chetti thanked Members Board of Management, officers, office bearers of different association, supporting staff and students in joining hands in keeping the campus green and clean.



Vice Chancellor, Dr. Mahadev B. Chetti, received the prestigious Green and Clean campus award on 28 September, 2021 during the Agricultural Universities Vice Chancellors Conference by Hon'ble Prime Minister of India (Virtually). Director General, ICAR-DA

MOUs

Chaudhary Charan Singh Haryana Agricultural University, Hisar

Signed MoU With Reputed Companies of the Country to Reach Three Varieties of Millet to Farmers

The improved varieties of Bajra developed by CCS HAU will now make their mark not only in Haryana but also in other states of the country. For this, the University has signed MoUs



Prof. B.R. Kamboj VC CCS HAU, Company officials and University officials during the signing of the MoU

with three leading companies of South India, promoting technology commercialization under Public Private Partnership. University Vice-Chancellor Prof. B.R. Kamboj said that by signing such agreements, it is the endeavor of the University that the advanced varieties and techniques developed from here can be reached

to the end users. Under the agreement, the companies will prepare the seeds of millet varieties HHB 67 modified, HHB 299 and HHB 311 developed by the University and send them to the farmers so that they can get reliable seeds of improved varieties.

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana

GADVASU inks MoU with University of Trans-Disciplinary Health Sciences & Technology, Karnataka

GADVASU signed a Memorandum of Understanding (MoU) with the University of Trans-Disciplinary Health Sciences & Technology (TDU),

Karnataka to collaborate on research and training of scientist/veterinarians on



ethno-veterinary practices. The MoU was signed by Dr JPS Gill, Director of Research, GADVASU, and Mr Atul Kumar Gupta, Registrar, TDU in the presence of Dr Inderjeet Singh, Vice-Chancellor, GADVASU and officers of both the universities in virtual mode. Dr Inderjeet Singh congratulated both the universities for inking the MoU and said that since the ancient times, India had been the hub of education and herbal treatments. Of late, it is high time to re-invent those treatises and validate them in the current scenario on animals. Both universities will work in tandem to train veterinarians, para-veterinarians, and other stakeholders in this field.

Navsari Agricultural University, Navsari

MoU signed with national/international organization, industry, etc.

A total of four ToT MoUs were inked on 8 July 2021 by NAU with North East Centre for Technology Application and Reach (NECTAR), DST, Government of India, Shillong, Meghalaya for the commercial scale production and marketing of NOVEL organic liquid nutrients.

Tamil Nadu Agricultural University, Coimbatore

Memorandum of Understanding with IIFPT

A fresh Memorandum of Understanding concerning the performance of the Indian Institute of Food Processing Technology (IIFPT),



Thanjavur, a Government of India Institute to ensure and maintain the updated standards in imparting Agricultural Education was signed on 10.8.2021 by Dr A.S. Krishnamoorthy, Registrar, TNAU, Coimbatore and Dr C. Anandharama Krishnan, Director, IIFPT, Thanjavur in the presence of Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore.

TNAU signed MoU with Coromandel International Limited

In connection with the Research Project on 'Neem based Bio-Pesticides and Assessment of its Impact and Future Potential' sponsored by the Coromandel International limited, Chennai, an MoU was signed between TNAU and Coromandel International Limited, Chennai on 23.8.2021 to conduct training programme on Neem based bio-pesticides in

nine districts of Tamil Nadu. The MoU was signed by Dr A. S. Krishnamoorthy, Registrar, TNAU and Mr L. K. Baburaj, Head, Business Division on behalf of Coromandel International Limited, Chennai in the presence of Dr N. Kumar, Vice-Chancellor.

MoU to promote Public - Private - Partnership

TNAU, Coimbatore signed an MoU on 9.9.2021 with M/s Rasi Seeds, Attur, Salem with an intent to establish close research and educational collaborations.



The MoU was signed by Dr A.S. Krishnamoorthy, Registrar and Dr M. Ramasami, Chairman, Rasi Seeds, Athur in the presence of Dr N. Kumar, Vice-Chancellor, TNAU.

MoU between TNAU and PSG College of Pharmacy

A Memorandum of Understanding was signed between TNAU and PSG College of Pharmacy, Coimbatore on 16.09.2021 for offering a Diploma programme in Production and Quality Control of Medicinal Plants and a special Certificate course in Herbal Formulation and Technology under Distance Learning Mode in the presence of the Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore. Dr A.S. Krishnamoorthy, Registrar, TNAU and Dr M. Ramanathan, Principal, PSG College of Pharmacy, Coimbatore signed the MoU. Another MoU was signed on 16.9.2021 between TNAU and Kothari Agricultural Management Centre, Connor for offering a Diploma programme in Tea Plantation Management under Distance



Learning Mode. Dr A.S. Krishnamoorthy, Registrar, TNAU and Dr R. Shanmugam, Director, Kothari Agricultural Management Centre, Connor signed the MoU in the presence of Vice Chancellor, TNAU, Coimbatore.

University of Agricultural Sciences, Dharwad

Tripartite MoU between UAS, Dharwad, The Registry of Sarees, Bengaluru and Agriinnovate India Limited, New Delhi for Commercialization of Dharwad Desi Coloured Cotton (DDCC- 1).

A tripartite Memorandum of Understanding was signed between UAS, Dharwad The Registry of Sarees, Bengaluru as transferee and Agriinnovate India Limited, New Delhi as facilitator for Commercialization of Dharwad Desi Coloured Cotton (DDCC-1), on



Tripartite MOU between UAS, Dharwad, The Registry of Sarees, Bengaluru and Agriinnovate India Limited, New Delhi for Commercialization of Dharwad Desi Coloured Cotton (DDCC- 1).

5.7.2021. During the meeting, on behalf of the University, Vice-Chancellor, Dr M.B. Chetti, Registrar, Sri Ramesh Desai, Director of Research Dr P.L. Patil, Cotton Breeder, Dr Rajesh Patil, and Asst. Director of Research, Dr S.A. Ashtaputre, and on behalf of The Registry of Sarees, Mrs. Ahalya Matthan and on behalf of Agri Innovate India Ltd., Sri Druva V.C. were present.

TECHNOLOGIES COMMERCIALIZED

Sher-e-Kashmir University of Agricultural and Sciences and Technology, Jammu

Diagnostic Kit for Goat Warble Fly Infections

“Development of serum based indirect plate ELISA using recombinant hypodermin C for diagnosis of goat warble fly disease Hypodermin C, as diagnostic molecule was identified from goat warble fly larvae (GenBank accession number MZ407908). The recombinant protein based test for diagnosis of goat warble fly disease is a first of its kind in the world.

Impact- The assay is highly economical and cost Rs 200 per sample and can be used at herd level for immunosurveillance and eradication strategy against goat warble fly disease.

Dudharoo App: An android app in Hindi for balanced ration formulation for dairy animals. Intended for farmers.

Vet Values: A reference android app for Veterinarians, Scientists, and students. It provides reference values of various physiological, blood biochemicals, and other relevant parameters of livestock and pets. Both apps are available on google play store for public download.

Kisan Hetashi Android App: This app has four main components, crop management, Livestock, weather and Mushroom. The weather component is in dynamic in nature.

University of Agricultural Sciences, Dharwad

Many Healthy and Nutritious Technologies are Available for Commercialization in Food Science and Nutrition Department of UAS, Dharwad.

Many technologies have been developed in the Department of Food Science and Nutrition of Agricultural University, Dharwad and ICAR-NAE project. These technologies are being commercialized and can be purchased by interested entrepreneurs, members of the Self-Help Groups and Farmer Producer Organizations (FPO). The products like Foxtail millet diabetic mix, Little millet diabetic mix, AKJ- 1 red sorghum snack bar, Little millet based sports mix, Supplementary food, Popped sorghum health mix, AKJ- 1 red sorghum cookie AKJ- 1 red sorghum upma mix, Foxtail millet laddu, Foxtail millet chakli, Little millet nippattu, Foxtail millet hurrakkiholige, Millet pappad, Foxtail millet vermicelli, Millet cookie, Ready to cook kodo millet pasta, Beetroot enriched kodo millet pasta, Barnyard millet instant dosa and idli mix, Browntop millet laddu, Proso millet chakli, Barnyard millet Custard Powder Mix and Proso millet dosa mix (Drumstick leaves Enriched) were developed. Interested persons can contact Dr Sarojani J Karakannavar, Professor and Head (FSN), UAS, Dharwad (Contact No. 9611151699).

FUTURE PROGRAMMES/ IMPORTANT EVENTS

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana

Multi-Specialty Veterinary Hospital and Regional Research Center, Sappanwali, Abohar, Fazilka

The University under the aegis of Punjab Government has taken an initiative to extend

the specialized veterinary services through establishment of Multi-Specialty Veterinary Hospital and Regional Research-cum-Training Centre(s) at different locations of the State, first being at Village Sappanwali, Fazilka. The

construction work of the (MSVH&RRC)

spread on a land area of 25 acres, having a budgetary estimate of Rs 62.14 crore have begun. The centre's dedicated Veterinary Hospital will be equipped with the state-of-the-art facilities for promotion of area specific need based research. This will also be pivotal in imparting trainings to the farmers for rearing livestock in scientific manner for their economic upliftment through integrated farming.



Sher-e-Kashmir University of Agricultural and Sciences and Technology, Jammu

- Value addition of local broken Basmati rice.
- Utilization of industrial waste and by-products.
- Exploitation of wild and underutilized fruits for value added products.
- Development of convenience food viz. instant soup mix and nutribar.
- Vegetable and Flower show shall be organized in the upcoming university Kisan Mela (7th – 11th October 2021).
- Five days Regional Agriculture Fair for Northern Region scheduled to be held at SKUAST-Jammu in October 2021.

Tamil Nadu Agricultural University, Coimbatore

International Conference on Agricultural Genomics - Progress and Prospects to be organized by Centre for Plant Molecular Biology and Biotechnology during 21 - 23 October 2021.