



IAUA NEWS

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NEW TECHNOLOGIES

VARIETIES/HYBRIDS

Birsa Agricultural University (BAU), Ranchi

State Variety Release Committee (SVRC) released following four improved varieties of BAU, Ranchi.

Linseed

Birsa Tisi-2

Average seed yield: 19.70 q/ha. Maturity: 128-130 days. Oil Content: 41.67%.

Highly resistant to rust, moderately resistant to wilt, alternaria blight, powdery mildew and tolerant bud fly. Suitable for rainfed condition.



Field pea

Birsa Matar-1

Average seed yield: 14-15 q/ha. Maturity: 114-116 days. Medium plant height (Dwarf type). Early flowering (66 days). Medium pod size (5-6 seeds). All rainfed areas of Jharkhand for *kharif* cultivation. Pale yellow seeds.



Soybean

Birsa Soybean-4

Average seed yield: 28.0 q/ha. Maturity: 105-110 days. Elongated (oval) light yellow seed. Protein 40.30%, oil 17.5%. Tolerant to powdery mildew, rhizoctonia aerial blight, target leaf spot bacterial pustules, myrothecium leaf spot and pod blight diseases. Moderately resistant to defoliators, stem fly and girdle beetle. Least or no attack of BHC due to hairy stem and pod.



Brinjal

Birsa Chianki Baigan-3

Average yield: 350-450 q/ha, Average fruit weight: 130-160 g. Diameter: 6-7 cm. Fruit length: 11-18 cm. Resistant to Bacterial wilt. Tolerant to shoot- and fruit- borer. Oblong to long light green colour fruits, green to light green foliage and green papery epicalyx. Suitable for early and late transplanting for *rabi* cultivation.



Odisha University of Agriculture and Technology (OUAT), Bhubaneswar

The following varieties developed and released suitable for cultivation in different agro-climatic conditions:

Rice

Kalinga Dhan 1201: The rice variety Kalinga Dhan 1201 is suitable for irrigated medium land condition. It matures in 125 days with average yield of 5,722 kg/ha. It has medium

plant height of 100 cm and the grains are long slender.



Kalinga Dhan 1202: It is suitable for cultivation in irrigated medium land situation. The variety matures in 130 days and has average yield of 6,052 kg/ha. The plant grows up to a height of 109 cm, and the grains are long slender type.



Kalinga Dhan 1203: This rice variety with semi-dwarf plant stature is suitable for aerobic and irrigated medium land situation. Its duration is 125 days, and average yield 4,318 kg/ha. The grain is medium slender type and it has excellent cooking quality.



Kalinga Dhan 1301: This rice variety is suitable for cultivation in irrigated medium land situation. The plant height is 113 cm and the grains are long bold type. Its average yield is 6,958 kg/ha, and matures in 130 days.



Blackgram/urd

Kalinga Urd 41: This blackgram variety with a duration of 71 days, is suitable for *kharif*. Its average yield is 1,101 kg/ha and potential yield 1,927 kg/ha. It has resistance against insects such as white fly, defoliators and pod borers and diseases like MYMV, leaf crinkle virus and CLS. It is moderately resistant to diseases like web blight, powdery mildew, *Macrophomina* blight and *Anthraco*se.



**Professor Jayashankar
Telangana State Agricultural
University (PJTSAU), Hyderabad**

Following thirteen varieties were notified by Government of India vide Gazette Notification dated 24 December 2021

Rice

Rajendranagar Vari-2 (RNR-15435): Duration 135-140 days with yield potential of 5.0-5.5 t/ha. Extra-long slender grain and high protein.



Rajendranagar Vari-2 (RNR-15435)

Kunaram Vari 2 (KNM 1638): Duration 120-125 days with yield potential of 7.6-8.5 t/ha. Fine grain and resistance to gall midge.



Kunaram Vari 2 (KNM 1638)

Warangal Vari 2 (WGL 962): Duration 120-125 days with yield potential of 6.5-7.5 t/ha. Fine grain and good cooking quality.

Kampasagar Vari 1 (KPS 2874): Duration 135-140 days with yield potential of 7.3-7.5 t/ha. Salinity tolerance and fine grain.



Kampasagar Vari 1 (KPS 2874)

Rajendranagar Vari 1 (RNR 11718): Duration 135-140 days with yield potential of 7.0-8.0 t/ha. Fine grain, high protein and tolerance to salinity.



Rajendranagar Vari 1 (RNR 11718)

Telangana Vari 4: Duration 115-120 days with yield potential of 6.5-7.0 t/ha and long slender grain.

Telangana Sona (RNR 15048): Duration 125 days with yield potential of 6.5-7.0 t/ha, super fine grain and low glycemic index.

Sorghum

Palem Jonna 1 (PSV 512): Duration 100-105 days with yield potential of 34-36 (grain) q/ha, 120-127 (fodder) q/ha, and resistance to grain mold.



Palem Jonna 1 (PSV 512)

Tandur Jonna 1 (SVT 68): Duration 115-120 days, yield potential 28-30 (grain) q/ha, 70-80 (fodder) q/ha and resistance to shoot fly.



Tandur Jonna 1 (SVT 68)

Red gram

Warangal Kandi 2 (WRG 255): Duration 170-180 days with yield potential of 16-18 q/ha and wilt resistant.

Telangana Kandi 3 (TDRG 59): Duration 170-180 days, yield potential 15-19 q/ha, and wilt and SMD resistant.



Telangana Kandi 3 (TDRG 59)

Green gram

Madhira Pesara 1 (MGG 385): Duration 70-76 days, yield potential 15-16 q/ha, and high protein content.



Madhira Pesara 1 (MGG 385)

Soybean

Adilabad Indore Soyachikkudu 1 (AIsb 50): Duration 100-105 days, yield potential 21.5-31 q/ha, and tolerant to shattering.



Adilabad Indore Soyachikkudu 1 (AIsb 50)

Sesame

Jagtiala Ti1 2 (JCS 2454): Duration 90-95 days, yield potential 9.5-10 q/ha, white seeded, and drought tolerance.



Jagtiala Ti1 2 (JCS 2454)

Sri Karan Narendra Agriculture University (SKNAU), Jobner

The following crop varieties were released for cultivation in different agro-climatic conditions.

Chickpea

CSJK 174 (Karan Kabuli 4): Released for cultivation under irrigated and timely sown conditions of South Zone (SZ). It is an early maturing variety (99 days) with 52.5 cm plant height. Seeds are medium-large with attractive beige-color. It is moderately resistant against wilt, stunt disease and pod borer. Seed yield - 1,472 kg/ha.



Chickpea variety CSJK 174

Fennel

RF-290: This variety is most suitable under irrigated conditions for loamy and black cotton soils having proper drainage. Erect and tall plants, medium maturity type, more branches and umbels per plant, more umbellets and

seeds per umbel and long and bold seeds. Yield, 20.65 q/ha.



Fennel variety RF 290

Fenugreek

RMt 354: This variety is especially suitable for all the fenugreek growing areas of the country from sandy loam to heavy soil. Medium tall plant with more branches and pods per plant, more seeds per pod. Tolerant to Downey mildew and powdery mildew. Bold and attractive yellow seeds. Yield potential, 15.37 q/ha.



Fenugreek variety RMt 354

Tamil Nadu Agricultural University (TNAU), Coimbatore

The university developed and released following crop varieties.

Rice

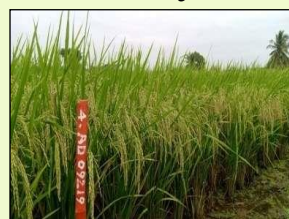
CO 55

- Short duration with 115 days maturity.
- Average yield is 6,050 kg/ha.
- It has milling of 66% and head rice recovery of 62%.
- It is a medium slender fine rice with good cooking quality.



ADT 57

- A medium slender rice with 115 days duration.
- Average yield is 6,500 kg/ha.
- It has a milling recovery of 69% and head rice recovery of 60%.



TKM 15

- A short duration drought tolerant medium slender rice variety with 115-120 days maturity.
- Average yield is 4,200 kg/ha.
- It has milling recovery of 68% and head rice recovery of 63%.
- Suitable for direct sowing under semi dry condition during north east monsoon.



TRY 5

- Salt tolerant short duration variety with 110 – 115 days maturity.
- Average yield is 5,100 kg/ha.
- It has milling recovery of 64% and head rice recovery of 54%.
- A medium slender fine rice with good cooking quality.



TRY 5

Blackgram**ADT 7**

- It is mutant of ADT 3, duration of 65 – 70 days, suitable for rice fallow.
- Average yield is 724 kg/ha.

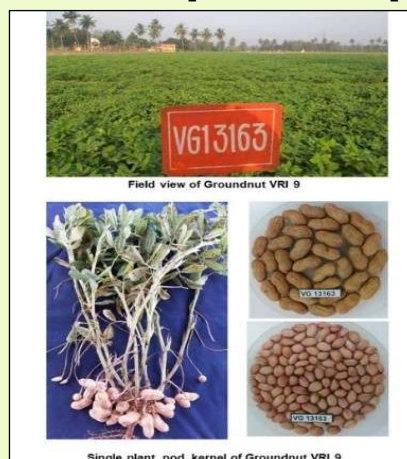
**Greengram****VCN 5**

- A derivative of VBN (Gg)2 × ML 1451, 70 – 75 days duration.
- Average yield is 870 kg/ha.
- Resistant to Mung bean yellow mosaic virus.

**Groundnut****VRI 9**

- A Spanish bunch variety with 115 days maturity.
- Average yield is 2,500 kg/ha.
- Oil content is 47% with high seed viability.
- No *in situ* germination of matured pods before harvest.

- Moderate resistance to late leaf spot and rust besides thrips and leaf hopper.

**VRI 10**

- A Spanish bunch shorter duration variety (95 days) with average yield of 2,530 kg/ha.
- Oil content is 48% with no *in situ* germination of matured pods.
- Moderate resistance to late leaf spot and rust besides thrips and leaf hopper.

**Sugarcane****COG 7**

- A mid-late season variety of 12 months.
- Average yield is 134 ton/ha under normal soil condition and 126 ton/ha under salt affected soils.
- Moderately resistant to red rot.



Brinjal MDU 2

- Derivative of ACM SM 9 × Annamalai 1 brinjal (duration, 140 days) with (31 t/ha) average yield.
- Moderate resistance to phytoplasma diseases and shoot fly incidence.



Turmeric BSR 3

- Clonal selection from Baguthampalayam.
- Duration is 240-250 days and average rhizome yield 51 t/ha.
- Higher curcumin content of 4.8%.
- Moderate resistance to leaf spot and leaf blotch diseases.



Coriander CO 5

- Duration is 35 – 40 days for green leaf harvest.
- Average green leaf or herbage yield is 4.7 t/ha.
- It has higher linalool content than other varieties.



Banana CO 3

- Derived from Karpooravalli × H201 cross, 13 months duration.
- Average bunch weight is 21 kg/plant, 12 hands with 16 fingers/hand.
- Field tolerance to root lesion nematode



Jamun PKM 1

- Semi spreading drooping branching habit.
- Large size fruit with average weight of 17g/fruit which accounts of 82 kg/tree/year.
- Rich in anti-oxidants, potassium, iron and vitamin C.



Jackfruit PKM 1

- Clonal selection from plus trees with fruit weight of 21 kg.
- Average yield is 106 fruits per tree accounting to 2.3 tonnes/tree/year.
- Harvesting can be done twice during March – May and November – December.



Lab Lab CO 15

- Pole type lab lab, average yield 14 kg/plant.

- Harvest of green pod starts from 70 days and continues up to 240 days with 25 harvests.



Elephant Foot Yam

CO 1

- Clonal selection with 240 days duration with average yield is 50 t/ha.
- Suitable for all districts cultivating elephant foot yam and for sandy loam soils.



MACHINES & EQUIPMENTS

Maharana Pratap University of Agriculture and Technology (MPUAT), Udaipur

Custard apple de-pulping machine

The developed machine can perform the operation to separate seeds from custard apple pulp scooped through the whole fruit. The machine worked on the principle of compression and shear between a grated concave made of SS bars and nylon brush tips. The capacity of the machine is 600 kg/hr. approximately with a pulping efficiency of 98%.

OUAT, Bhubaneswar

OUAT developed bullock operated barnyard millet thresher

Farm mechanization plays a vital role in drudgery reduction and timely operation of agricultural activities. A barnyard millet thresher, operated by bullock power in rotary mode, was developed at Odisha



University of Agriculture and Technology, Bhubaneswar. The output of the thresher is 21.5 kg/hr with threshing efficiency of 96.5 % and cleaning efficiency of 92.3 %. This thresher can also be operated by 1.0 hp single phase electric motor.

TNAU, Coimbatore

Colour sorter and grader for spherical fruits and vegetables

- For grading the fruits/nuts of mango, coconut, tomato, etc. and also simultaneously sorting with the colour.
- Capacity of machine is 40 kg/hr.
- Used for sorting either for colour or size or for both.



Colour Sorter for Fruits

Compound parabolic solar dryer

- Reduction of drying time (50%), retention of quality and nutritional characteristic of dried product.



Compound Parabolic Solar Dryer

Domestic solar dryer

- A small-scale household unit to dry green produce like leaves / vegetables / grains utilizing non-conventional energy.
- Reduces half of the drying time compared to sun drying.

**Multi row weeder attachment to riding type rice transplanter**

- Used for weeding operation once or twice during vegetative stage of paddy as an alternative to manually operated cono weeder.
- Facilitates the adoption of SRI technology and can cover 2.5 to 3.0 ha/day.



Weeder attachment to paddy transplanter

PRODUCTS & PROCESSING**Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana****Process development for egg jam varieties**

The developed products (plain egg jam and mango flavoured egg jam) are tastier, sweet and have excellent spreadability. It was liked by the consumers and taste panelists. The jam and its varieties have essential amino acids, fat soluble vitamins, essential fatty



acids and these are rich in high biological value protein.

MPUAT, Udaipur**Banana peel and pulp powder**

The process for banana peel and pulp powder was developed. The peel and pulp after treating with 0.5 % KMS solution dried in convective dryer at 60°C. The quality evaluation of developed products was evaluated on the basis of colour, water activity, TSS, protein, carbohydrate, rehydration ratio and total ash content.

PJTSAU, Hyderabad**Natural dye processing and incubation**

Centre of PJTSAU is engaged in production of natural colours from botanical resources. Eco Holi

powders of five shades viz. pink, yellow, orange, blue and



green were produced to reduce environmental pollution. During this season, 1,518.55 kg of eco Holi colours were produced and supplied to various stakeholders.

Millet Processing and Incubation Centre, Rajendranagar

has gained expertise in developing nutritious millet products aimed at reduced malnutrition across population. During the season 124.776 tonnes of millet biscuits and primary processed food products



were produced and supplied to social welfare hostels and schools in the State.

TNAU, Coimbatore

Zinc solubilizing bacteria as an inoculant for Zn nutrition and biofortification

- Zinc solubilizing bacterial strains increase Zn availability by solubilizing insoluble form of zinc into soluble form.
- ZSB inoculation ensures Zn availability, reduces ZnSO₄ application (50%), enhances Zn uptake and fortifies Zn in rice grains.

Nodule associated plant probiotics for black gram

- Black gram root nodule endophytic yeast assist rhizobium species / nitrogen fixing bacteria in legumes to fix more nitrogen from atmosphere.
- This technology gives a BC ratio of 2.53.

Musk melon fruit powder

It can be used in the preparation of ready to use food mixes such as instant drinks, milk shake powder, ice cream and health mixes.

University of Agricultural Sciences (UAS), Dharwad

Innovative Poultry feed, Nursery media, Maize paper and Arecanut Chocolates ready for market – UASD Students Start-ups

Students have developed innovative products like poultry feed, nursery media, maize based paper and arecanut chocolates, and are ready for commercial production. These products are launched during the workshop on Ideathon held on 8-9 Feb 2022 at UAS, Dharwad campus. They are promoted under World Bank funded NAHEP-IDP. Private Secretary to Government Chief Whip Shri Shanta Kumar Desai, after launching the products appealed to the students to continue the journey of start-ups and set themselves as role models in the society.

The products have been developed from waste like silkworm pupae, maize husk and maize shunk. University is encouraging these groups to produce in large scale and develop revenue models. It is expected that farmers benefit with the new products as they are economical and have high quality. Apart from this the waste like silkworm pupae and maize husk, which cause pollution problem can be put in to productive use.



Agri Start-up on Innovative Poultry feed Nursery media, Maize paper and Arecanut Chocolates were exhibited by UASD Students under NAHEP-IDP

PACKAGE OF PRACTICES

MPUAT, Udaipur

New packages of practice recommended related to livestock production –NAE on organic poultry

- Feeding of moringa leaf powder @ 5% resulted in improved growth and body weight gain in meat type of poultry birds.
- Egg production (hen day egg production and hen housed egg production) improved with feeding of 5% moringa leaf powder in the diets of laying birds under organic management system.
- Growth performance of Pratapdhan was highest under organic poultry production system as compared to RIR, Kadaknath and Mewari breeds of poultry. The Pratapdhan breed of poultry is recommended for organic poultry farming followed by RIR, Kadaknath and Mewari breeds of poultry.

- Supplementation of Azolla in the diets of poultry at 5% level resulted in increased growth rate and body weight of Pratapdhan poultry.
- Age at first egg, sexual maturity and egg weight improved in laying Pratapdhan birds on feeding of 5% azolla leaf meal

SKNAU, Jobner

Five recommendations were included in the package of practices of zone III B of Rajasthan.

- Bajra variety HHB-299 included in POP of Zone IIIB.
- Spray of Tebuconazole 25.9% EC @ 0.1% included in POP of Zone IIIB against Cercospora leaf spot disease of moong bean (green gram).
- Spray of Thiamethoxam 25% WG @ 25g a.i/ha included in POP of Zone IIIB against insect pest (white fly) in green gram.
- Soil application of Thiamethoxam 75% SG @150 g/ha included in POP of Zone IIIB against white grub in pearl millet.

TNAU, Coimbatore

Optimization of N, P and K requirement for barnyard millet (*Echinochloa frumentacea* (Roxb.) Lin) in Red and Black soils

- NPK @ 50:15:15 helps in optimizing and balancing nutrient requirement and increase the yield by 20% in light textured red soil with BC ratio of 2.36.
- In heavy textured black soil, application of NPK @ 40:15:15 increases the yield by 17% with BC ratio of 2.41

TEACHING

MPUAT, Udaipur

New Programme/ Publications

- A new B.Tech program in Artificial Intelligence & Data Science is started from Academic year 2021-22.
- Book published: *New Engineering Technologies of Modern Farming*. Dr N. S. Rathore & Dr N. L. Panwar. Publisher, New Indian Publishing Agency, New Delhi.
- Development of an analytical model for cost-based optimization of KVIC biogas plant dimensions by P.S. Bandgar, S. Jain and N.L. Panwar in Bioresource Technology Reports 16, 100879.
- Book Chapter: Transesterification Methods. *Production of Biodiesel from Non-Edible Sources*, B.S. Salvi, Publisher: Elsevier, Editor: A. Arumugam, pp. 117 – 151, ISBN: 978-0-12-824295-7, Publication date: 10-02-2022.
- Manual published as *Success stories on experiential learning* by Department of Renewable Energy Engineering.
- *Manual on Geoinformatics and nanotechnology for precision farming*. Dr J. Choudhary and Dr Vinay Kr. Gautam. ISBN: 978-81-951740-8-9.
- *Soil and water conservation and management* by Dr Manjeet Singh, Dr Urmila and Dr K.K. Yadav. ISBN: 978-93-90647-86-6.
- *Climate smart agriculture* by Dr Manjeet Singh, Dr Urmila and Dr K.K. Yadav. ISBN: 978-93-90647-78-1.
- *Smart meters: An Introduction* by Dr Vikramaditya Dave. Publisher: Himanshu Publications, 2022.

Navsari Agricultural University (NAU), Navsari

Teaching Infrastructure Developed

**Tsuboniwa: Courtyard Garden and Kaiyu
Shiki Teien: Strolling Garden**



Dr Z. P. Patel, VC, inaugurated the Learning
Gardens

Vice Chancellor Dr Z. P. Patel inaugurated “Tsuboniwa” Courtyard garden and “Kaiyu Shiki Teien” -Strolling gardens at ASPEE College of Horticulture and Forestry on 28 February 2022. These gardens were created with skill building approach among the eight semester undergraduate students by the Department of Floriculture and Landscape Architecture. Dr P. K. Shrivastava, Dean, ACHF and all the Department Heads were also present on the occasion.

SKNAU, Jobner

12 virtual and 25 smart class room have been established at different constituent colleges of SKN, Agriculture University, Jobner.



Hon'ble Governor, Rajasthan, Shri Kalraj
Mishra visiting virtual class room

Rajasthan Shri Kalraj Mishra visited virtual classrooms in the SKN College of Agriculture, Jobner on 23 March 2022 and interacted with

the UG/PG students. He also virtually interacted with the UG students from College of Agriculture, Lalsot. He appreciated the efforts of the University for creating the facilities of online teaching.

TNAU, Coimbatore

Vice Chancellor inaugurated PGSMS facility



Dr V. Geethalakshmi, Vice Chancellor, TNAU, Coimbatore inaugurated Post Graduate Student Management System (PGSMS) facility at School of Post Graduate Studies, TNAU, Coimbatore on 29.03. 2022. The security level of records will be enhanced and information about individual students assisted by PG School will be retained with this facility. Once the students are admitted to TNAU for their PG/Ph.D programmes, a centralized database will be created, making it easier to share papers and ideas; editing, retrieving and accessing data. Furthermore, it acts as a communication portal enabling students and teachers to receive real-time information and notifications across many platforms, as well as their ability to transmit vital updates via emails and in-app push notifications.

EVENTS AND ACTIVITIES

BAU, Ranchi

Training

Three-day farmer training programs (3) on 'Innovative Agricultural Practices for Sustainable Development' were organized in

collaboration with NABARD, Ranchi during March, 2022. Tribal farmers (194) of 10 districts of Jharkhand state participated.

Three (3) days training cum workshop programme on 'Prospects and opportunities of natural farming in Jharkhand state' was organized during 21-24 March 2022. KVK scientists (36) participated in this programme.

Technology and machinery demonstration program at BAU

Department of Agricultural Engineering of BAU in collaboration with ICAR-AICRP on farm implements and machinery; energy in agriculture and agrobased industries; farm machinery and power engineering and post-harvest engineering and technology organized one-day Technology and Machinery demonstration program on 24 March 2022. BAU Vice Chancellor Dr Onkar Nath Singh while inaugurating the event said that since most of the farming operations in Jharkhand are performed by women, designing, development and release of low-cost, system-responsive, small, women-friendly farm implements should be the priority of agriculture engineers of BAU. Director Research Dr A. Wadood, Director Students' Welfare, Dr D.K. Shahi, Executive Director, Jharkhand Agricultural Machinery Testing & Training Centre, Mr R.P. Singh and Associate Dean, College of Agricultural Engineering Prof D.K. Rusia also spoke on the occasion. Over 600 farmers from 9 districts of the state participated.



Refreshers Course

Twenty-one (21) day National Refreshers Course was organized by College of Veterinary Science and Animal Husbandry, BAU on "Better option of doubling farmers' income by incorporating latest techniques of livestock management in agriculture system" in hybrid mode during 01 to 21 February 2022. A total of 297 participants from all over the country participated.

GADVASU, Ludhiana

Workshop on Genetically Modified (GM) Crops

Department of Animal Nutrition, GADVASU in association with Animal Nutrition Society of India (ANSI) and Biotech Consortium India Limited



(BCIL), New Delhi conducted a workshop under the theme '**Genetically Modified Crops in Animal Nutrition: Science and Safety Aspects**'. Expert(s) informed the participants about the animal feed requirements in India and related issues and availability; status and overview of Genetically Modified (GM) crops in India, particularly soy, maize and canola crops; improved nutritional value of GM crops; and cleared the myths related to GM crops for food value chain. Dr Inderjeet Singh, Vice Chancellor, GADVASU said that as the demand of animal products is increasing day by day, new crops with high yield and free from pests must be developed to sustain the production. He further added that the lesser insecticide/pesticide use in GM crops in fact improves the economy of the farmer(s) leading to better end product in food value chain.

International Conference on Immunology and Biotechnology



College of Animal Biotechnology under the aegis of the Indian Society for Veterinary Immunology and Biotechnology (ISVIB) organized the XXVI Annual Convention of the ISVIB and International Conference on **'Transforming Livestock Economy through Innovations in Immunology and Biotechnology (VIBCON-2019/20/21)'** from 04-05 February 2022 in a virtual mode. More than 100 participants took part in the event and got benefitted. Dr Rameshwar Singh, Founder Vice Chancellor, Bihar Animal Sciences University and Dr Inderjeet Singh, Vice Chancellor, GADVASU inaugurated the convention along with Dr Baljit Singh, Vice President (Research), University of Saskatchewan, Canada, Padmashri Dr Omesh Bharti, State epidemiologist, H.P, Dr Quaza Nizamuddin Hasan Nizam, President, Federation of Asian Veterinary Associations and Dr R.K. Singh, President of ISVIB.

Continuing Medical Education (CME) on 'COVID19'

College of Animal Biotechnology in association with Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow organized a CME on COVID 19 in collaboration with the American Society for Microbiologists (ASM) and



Indian Virological Society (IVS) on 26 March 2022. A total of 1,060 participants registered for the CME, focused on emerging COVID 19 variants and vaccines. Distinguished speakers from Penn State University; Curie Institute, Paris; University of California, USA; and University of Saskatchewan, Canada delivered key note lectures on the 'One Health' concept.

G.B. Pant University of Agriculture & Technology (GBPUAT), Pantnagar

Indian Society for Veterinary Surgery launches three-day national seminar



Indian Society for Veterinary Surgery organized a national seminar on 'Recent trends in surgical and imaging techniques for enhancement of productivity and health status of farm and pet animals' on 24 February 2022 at College of Veterinary and Animal Sciences. In this programme, Deputy Director-General, Animal Science, Indian Council of Agricultural Research, Delhi, Dr B.N. Tripathi was the chief guest; Director, Animal Husbandry, Government of Uttarakhand, Dr Prem Kumar was the special guest along with Registrar, Dr A.K. Shukla. Dr A.K. Shukla said that animals and humans are directly related to the ecosystem, if any one of them is affected, then it will have a direct impact on the environment. Dr B.N. Tripathi said that after the surgical technique, there has been a radical change, in the field of medicine as well as new techniques have also been incorporated in the field of surgery. Dr Tripathi told that the responsibility of the veterinarian is more than other doctors as he treats those who cannot express their pain.

Online webinar on 'Skills and attitude for the post-pandemic world'

Home Science Society, organized an incredible brain storming session on the topic 'Skills and Attitudes for a Post-Pandemic World' on 23 February 2022 by Dr Pratima Khandelwal, Ph.D., and lead facilitator, Founder of Fly High, an MSME based educational support entity in Bengaluru, India. Dr Khandelwal, a soft skills mentor, is a Pantnagar alumnus batch 1993. The expert oriented the students for the moto of their life and emphasized working upon it. She also came up with simple and quick lessons to make students' life easy and more effective. Students learned new terminologies like self-learning ability, VUCA, MOOCS through the session. Dr Alka Goel, Dean, College of Home Science appreciated the speaker Dr Khandelwal for her enthusiastic session and emphasized that interaction with the seniors/alumni always benefit students' professional career.

Training programme on Capacity Building of SC Women

Department of Foods and Nutrition, College of Home Science organized three-day training programme on 'Capacity Building on Skill Development' among SC Women of Uttarakhand

(Skill Development Training on Baking) from 25-27 March 2022. SC women (30) from Bari village, Rudrapur block participated in the training. Professor, Foods and Nutrition, Dr Archana Kushwaha, was Convener of the training. Training on different types of baked nutritious products was given



by Dr Anuradha Dutta, Dr Sarita Srivastava, and Dr Pratima Awasthi. Mr Avinash Srivastav, Secretary, and Civil Service Authority was the chief guest of the training programme.

Three-day training programme on 'Capacity building for Skill Development among SC women of Uttarakhand' was organized by the Department of Clothing and Textiles and Family Resource Management from 28-30 March 2022. The training programme was sponsored by ICAR-National Institute of Agriculture Economics and Policy Research (NIAP) for the skill development of SC women. Women (37) from villages Okhli, Kalayanpur, and Sahjana (Sitarganj block) participated in the training. Women were given practical training on how to take care of sewing machine, as well as solutions to difficulties they may find when stitching, such as belt displacement, tangling of upper and lower threads, etc. The women were also given hands-on training on block printing and paper mache. The sewing machine kit and paper mache kit were also distributed to the participants by Vice Chancellor, Dr Tej Partap Singh.

International Mother-Language Day

Sanskriti Chetna Parishad organized an 'Expression'- speech competition on the occasion of International Mother Language Day on 21

February 2022 in the university. Registrar, Dr A.K. Shukla; Dean



Student Welfare, Dr Brijesh Singh; Dean Agriculture, Dr Shivendra Kashyap; Council Coordinator, Dr Vinita Rathore; Assistant Dean Student Welfare Assistant Professor, Technology College, Dr Shobhit Gupta, Professor Genetics and Plant Breeding and Dr J.P. Jaiswal were present during the programme. On this occasion, Dr A.K. Shukla

appreciated the efforts of the Sanskriti Chetna Parishad for the promotion of Indian culture and mother tongue. Describing language as a medium of communication, Dr Shivendra Kashyap said that we should always be proud while using mother-language, and it is important that we also become proficient in reading and writing our mother-language. Dr Brijesh Singh described the integrity of Indian culture. Appreciating the programme, Dr J.P. Jaiswal said that there is no other language as sweet and simple as mother tongue. Dr Vinita Rathore told that the mother tongue is the language which we learn from our mother and it gets embedded in our heart. In the competition, more than 100 students from various educational institutions displayed their reading skills by presenting their speeches on various subjects.

Essay writing competition

On the occasion of 73rd Republic Day, Home Science Society organized an essay writing competition on 'Vision of Future: 72 years of Sovereign Republic on 26 January 2022'. The competition was organized online for the students of College of Home Science and entries were invited both in Hindi as well as English. Among the contestant, Mr Shashank Gangwar was awarded I, Ms Garima Dwivedi II and Ms Shambhavi Jha secured III position in Hindi essay competition, and in English essay competition Ms Deeksha Karki got I, Ms Aliza Jahir II and Ms Praachi Bisht secured III position.

'Nutri-Smart Village' programme in Gethia

A research team from the All India Coordinated Research Project on Home Science developed a Nutri-Garden in Gethia village, Bhimtal block, under the Prime Minister's Nutri-smart village programme. Seeds of seasonal vegetables were sown and women were given awareness regarding the importance of Nutri-Garden along with the appropriate technique of maintaining Nutri-Garden in minimum space. Data were also collected from 454 families (35%

of total households of each village) on socio-economic status, nutritional status, and KAP of selected farm families under the 'Nutri-Smart Village' programme in Gethia, Chopra, and Belwakhana villages of Nainital district; and Turkagauri village of district U.S. Nagar. Anthropometric measurements of family members were also taken.

111th Farmers' fair

The 111th All India Farmers' Fair and Agro-Industry Exhibition were organized at the University on 24 March 2022. Chief Guest, Shri Paramvir Singh Sirohi, and special guest, Vice-President of Farmers Commissioner, Shri Rajpal Singh inaugurated the fair. After the inauguration

of the fair, Vice

Chancellor, Dr Tej Partap invited Shri Paramvir Singh Sirohi to inspect the garden

exhibition and the stall of the university's college at the fair. In the programme,

Mr Sirohi said that he has been constantly trying to find better opportunities to increase agricultural income in the Sahaspur block of Dehradun. The special guest of the programme, Shri Rajpal Singh appreciated the contribution of the university and the efforts made by the farmers of the state toward organic farming. Vice Chancellor, Dr Tej Partap, said that the emphasis in today's time is on how we should care for the environment and health at our level, even after adopting agriculture as a business. Director Extension Education, Dr Anil Kumar Sharma; Director Research, Dr A.S. Nain, and other scientists were also present.



At this fair, about 350 stalls of various firms, universities, and other government institutions were set up and about 10,000 registered and unregistered farmers visited the fair. Progressive farmers (9) selected from different districts of the state were honored by giving them a symbol and certificate on 27 March 2022, for their innovative experiments in agriculture and remarkable success.

Junagadh Agricultural University (JAU), Junagadh

Training on Agricultural Spraying Drones

Incubation Centre on Precision Farm Mechanization, Department of Farm Machinery and Power Engineering, College of Agricultural Engineering and Technology, JAU, Junagadh under the aegis of NAHEP-IDP organized five day hands-on vocational training programme on



Glimpses of training programme

“Agricultural Spraying Drones” from 28 February to 05 March 2022 for B. Tech. (Agril. Engg.) students. The purpose of the training was to impart knowledge to the students about assembling, calibration and operation of crop spraying drones so that students can get expertise on various applications of crop spraying drones. Different topics were covered like introduction of pesticide spraying by drones, introduction to different components, type of drones, working principle, signal and power flow in drone, different calibrations, troubleshooting and error rectification, drone maintenance, emergency identification and handling etc.

Training on Aatmanirbhar Bharat Opportunities in Start-up and MSME



Training on *Atmanirbhar Bharat: Opportunities in Start-up and Ministry of Micro, Small & Medium Enterprises* was organized under NAHEP-IDP on 28 March 2022 by Incubation Centre on Precision Farm Mechanization, Department of Farm Machinery and Power Engineering, College of Agricultural Engineering and Technology, JAU, Junagadh and Student Start-up and Innovation Policy Cell, JAU. Prof. (Dr) N. K. Gontia, Vice Chancellor was the Chief Patron, Dr. R. C. Agrawal, DDG (Education) ICAR, and National Director, NAHEP, ICAR was Chief Guest of the programme. Dr K. K. Goyal, Asstt. Director, MSME, Government of India, New Delhi; Dr Ganesh Bora, Executive, USDA, USA and Mr. Pravin Sharma, founder MD, Flora Consult, Pune were the keynote speakers at the event. The event was organized in hybrid mode and more than 600 participants joined virtually through U-tube live (Link:https://www.youtube.com/watch?v=5_CZm9FyL0Y).

Training on Entrepreneurship Development in Agro Tourism

The Directorate of Students' Welfare, JAU, Junagadh organized a training on "Entrepreneurship Development in Agro-Tourism" on 8 March 2022 under IDP-NAHEP. Shri Prashant Sawai, Deputy Director,



Directorate of Tourism, Nagpur Maharashtra was the speaker. The famers who gain success in agro-tourism shared their experiences. Shri Vinod Gontia, Chairman, MP Tourism Corporation was the Chief Guest. Prof. (Dr) N. K. Gontia, Vice Chancellor, JAU in his presidential address expressed that Agro Tourism is going to add new dimension in Indian agriculture in future.



MPUAT, Udaipur

Symposium/ Webinar

- Mechanical Engineering Department organized Two Day National Online Workshop on “Emerging Technologies for Redesigning Future” on 04-05.02.2022, More than 270 participants attended the workshop. Chief guest, Dr Narendra Singh Rathore, Vice Chancellor, MPUAT, Udaipur congratulated the organizers and Dean CTAE for conducting the workshop for the benefit of the students. He highlighted the importance of digital technology for increasing farmer income, farm yield, and quality of agriculture products.
- One day Webinar on COVID 19, OMICRON-A New Challenge for Humanity, under UBA 2.0 on 2 Feb 2022. Number of Participants - 250. The Chief Guest, Prof. V.K. Vijay talked about the programme conducted under UBA activities for health awareness. The eminent speaker, Dr P. C. Jain provided the detailed information about making a lung exerciser from a glass glucose bottle available at home and how to increase lung power by using it. Gargling with alum, turmeric milk, dry ginger, basil tea, are very useful for regular recharge the body, which help to stay away from corona, he told.
- Ministry of Culture and Vigyan Prasar,

Government of India sponsored 7-day event entitled Vigyan Sarvtra Pujiyate which was organised by MPUAT, Udaipur during February 22-28, 2022. No of Participants: 2500, Chief Patron: Vice chancellor Prof. N. S. Rathore, Patron: Prof P K Singh, Dean CTAE, organizing Secretary: Dr Vikramaditya Dave.

Training programmes

Winter School on Skilling of rural youths for employment generation in Agriculture, from 04-01-2022 to 24-01-2022 (21 days) was organized by Dr Lokesh Gupta, Department of Animal Production.

- 2-day training on Dairy processing and fruits and vegetable processing on 25.02.2022 and 26.02.2022 for 22 farmers from Gogunda, sponsored by King NGO, Gogunda.
- Skill Development Training for Entrepreneurship scope in processing and value addition of dairy and food Products from 2 to 5 March 2022, DFT, CDFT, Udaipur.
- Skill Development training for Increasing efficiency and proficiency of students, from 7 to 12 March 2022, DFT, CDFT, Udaipur.
- One week NSS Camp for B.Tech. (DT/FT) 1st year students from 8.3.2022 to 14.3.2022.
- Two-day Micro Entrepreneurship training for 25 farm women from Jhadol on Processing and value addition of Food Products 23-24 March 2022.
- 6-days IDP, NAHEP sponsored training on Interview Skills – Increasing Efficiency & Proficiency during 07.03.2022 to 13.03.2022 for UG students by Dr Devendra Jain, MBBT Department.
- Two batches of 80 candidates were awarded One Year Diploma certificate in Agri-Input Dealer in February 2022. Thus, the Department of Entomology generated revenue of Rs 8.70 lakh during 2021-22.
- Five-day training on Integrated Watershed Management from 3-7 January 2022. The

training was attended by 40 Participants of Sikar District of Rajasthan.

- One week Skill Development Training on Entrepreneurship in Processing and Value Addition of Food Materials from 14th to 18th February 2022 Department of Processing and Food Engineering of CTAE, MPUAT. Training was conducted on online mode using Cisco WebeX Platform. Ten Experts were invited and they delivering their lecture. The training was attended by 146 students and 6 Faculty members. Convenor of the Programme was Dr N. K. Jain, Professor and Dean, CDFT, Dr P.S. Champawat, Retired Professor, PFS was Co-Convenor and Organising Secretary was Dr S. K. Jain, Professor and Head, PFE.

Demonstrations Mela

On 11 March 2022, a mega Technology cum Machinery Demonstration Mela cum Manufacturer Meet, was organized at College of Technology and Engineering (CTAE) under the All India Coordinated Research Project on Agricultural Engineering. The event was inaugurated by the Chief Guest Shri Raghuveer Meena, Ex Member of Parliament in the presence of BOM Members Shri Jagdish Bhandari and Dr R.C. Tiwari, and all Dean's and Directors. The event was attended by over 800 farmers and farm women from MPUAT jurisdiction. An exhibition to showcase various technologies in dairy, animal production, mushroom, women in agriculture, farm machinery, renewable energy etc., was organized. Two farm women were also given wheel hoe for wining lucky draw.

Farmers' Fair

Participation and Exhibition of food products in Agriculture Technology and Machine Demonstration cum meet Mela on 11.3.2022 sponsored by AICRP, ICAR organized by CTAE, MPUAT, Udaipur.

NAU, Navsari

Workshop on Preparation of contemporary Wooden Decorates

One-day Design Development Workshop on Preparation of contemporary Wooden Decorates, was organized by NAU, Navsari under

NAHEP-CAAST project on 24 March 2022. The programme was



Participants at workshop

inaugurated

and presided over by Principal CoA, Waghai Dr J. J. Pastagia. The experts of the workshop emphasized on various aspects related to theme. Total 25 artisans from Ambapada village participated.

National Level Meet - Agripreneurship: Present Opportunities and Future Prospects

ICAR sponsored 3-day National Level Meet on Agripreneurship: Present Opportunities and Future

Prospects was organized by NAHEP-CAAST Project, NAU, Navsari during 02-04 March 2022. The inaugural function of meet was presided over by Vice-Chancellor of



NAU, Navsari Dr Z. P. Patel, in presence of Dr Abdul Samad, Dean and DI (Retd.) MAFSU, Maharashtra as Chief Guest; Dr Shahaji Phand, PC, AC & ABC, NIAEM (MANAGE), Hyderabad as Special Guest. In his presidential address Vice Chancellor emphasized on the

importance of Agripreneurship in the Era of Globalization. A total of 366 participants benefitted from this meet which included students, farmers and faculties.

National Level Hackathon on Smart and Remunerative Farming and Launching of web portal SARAL

ICAR sponsored National Level Hackathon on Smart and Remunerative Farming, was organized by NAU, Navsari under NAHEP-CAAST

project on 5 March 2022.

The programme was inaugurated and presided

over by Vice Chancellor Dr Z. P. Patel in the gracious presence of Dr Sanjay K. Dwivedi, Director of Personnel, DRDO, New Delhi as Chief Guest. Vice Chancellor launched a web portal SARAL and a mobile application Al Xylorix during the event. This web portal is ready for renting out other interested institutions/organizations/ professional bodies. He also released brochure of Xylorix wood identification artificial intelligence (AI) model. Such type of AI models on wood identification are first of its kind to be developed in India on the Xylorix platform. A total of 76 teams with 182 students and faculty members from different SAUs /ICAR institutes participated in the Hackathon.



Training on Beekeeping



One-day training programme on Beekeeping for farmers was held on 18 February 2022 at NAU, Navsari. The programme was organized under NAHEP-CAAST, NAU, Navsari. Dr P. K. Shrivastava, Principal and Dean, ACHF, NAU, Navsari welcomed participants. About 63 farmers participated for the training programme.

Skill Development Training on Flower Arrangement, under STUDENT READY programme

Vice Chancellor, Dr Z. P. Patel presided the inaugural function of the Skill Development Training on Flower Arrangement, under STUDENT READY programme on 10 March 2022

organized by ASPEE

College of Horticulture & Forestry, NAU, Navsari. Dr P. K.



Shrivastava, Dean, ACHF welcomed and gave introductory remark. Dr T. R. Ahlawat, Director of Research and Dean PG as Chief Guest encouraged the students for skill

development. Vice Chancellor complemented the floriculture team and motivated students to keep updated in the subject and learn new skills from the befitting learning environment provided to them in the University.

Recent Trends in Sustainable Utilization, Value Addition and Conservation of Non-Timbers forest Genetic Resources



NAU, Navsari, Gujarat organized ICAR sponsored 10-day online short course on Recent Trends in Sustainable Utilization, Value Addition and Conservation of Non-Timber Forest Genetic Resources (NTFGRs), from 19-28 January 2022 at College of Forestry, Navsari. The course was inaugurated on 19 January 2022 by Dr Z. P. Patel, Vice Chancellor, NAU, Navsari in cordial presence of Dr A. Arunachalam, Director, ICAR-CAFRI, Jhansi, Uttar Pradesh as Chief Guest, and Dr T. R. Ahlawat, Director of Research and Dean PGS, NAU as Guest of Honour and Dr C. G. Intwala, Acting Dean, ACHF, NAU, Navsari through virtual mode. Twenty-five (25) participants from different SAUs and CAUs representing 10 states of India viz., Jammu & Kashmir, Uttar Pradesh, Madhya Pradesh, Haryana, Punjab, Maharashtra, Karnataka, Telangana, West Bengal and Gujarat participated in this programme.

PJ TSAU, Hyderabad

Trainings

- Training programme on Biotechnology tools in crop improvement, was organized by Institute Biotechnology, Rajendranagar in collaboration with DBT-SVP-TSCOST FDP

from 14 to 26 March 2022. A total of 33 lectures along with practical hands-on experience were arranged for the benefit of the participants.

- Training programme on Statistical data analysis for the faculty of PJ TSAU in virtual mode was organized by ICAR-NAARM, Rajendranagar from 6 to 22 April 2022. A total 487 faculty members participated in the programme in virtual mode.
- College of Community Science, PJ TSAU organized ICAR sponsored 21-day Winter School Programme on Energy Consumption and Environmental Pollution in Interiors: Issues and Challenges, from 1 February to 21 February 2022 at College of Community Science, Hyderabad on Virtual Mode.
- The University organized a workshop in collaboration with MSME (ni-msme) on Farm Based Sustainable Livelihood Opportunities for Rural Youth, from 9th to 11th March 2022 for final year AELP students (40 Nos.) of all nine constituent



- colleges at College of Agriculture, Rajendranagar, Hyderabad.
- Zonal Research and Extension Advisory Council (ZREAC) Meetings of all the agroclimatic zones of the Telangana were held from 16 to 29 March 2022 to finalize the research and extension programmes to be carried out for the ensuing seasons.



- Agri Tech South 2022: 3rd Edition AGRIVISION Conference on Agri-Technology and Innovation was organized from 20 to 22 April 2022 at University

Auditorium, PJTSAU, Rajendranagar, Hyderabad by Confederation of Indian Industry (CII) with Partner Country NL (the Netherlands), host State Government of Telangana, in association with PJTSAU, supported by FACE. Wherein farmer, private sector representatives, industry officials, research delegates and students participated and deliberated on various emerging themes concerning current agriculture during event.

SKNAU, Jobner

International Conference

8th International Conference on Plant Pathology – Retrospect and Prospectus, was organized at SKN Agriculture University, Jobner during 23-26 March 2022. The Hon'ble Chancellor and Governor of Rajasthan Shri Kalraj Mishra was Chief Guest in inaugural function of the International Conference. Dr C. D. Mai, Former Chairman, ASRB (ICAR) and Agriculture Commissioner Government of India, Dr J.S. Sandhu, Vice Chancellor, SKNAU, Jobner, Dr Robin Gogoi, Secretary, IPS, different delegates and faculty members of SKNAU, Jobner were present. This conference was jointly organized by Indian Phyto-pathological Society, New Delhi and SKN Agriculture University, Jobner. Six hundred Scientists/Teachers from different countries participated physically or on online mode in the International conference.



4th Convocation

The SKNAU, Jobner solemnized 4th Convocation on 21st January 2022 under the chairmanship of Hon'ble Governor of Rajasthan, Shri Kalraj Mishra, Convocation guest Shri Ramesh Chand, Member, NITI Ayog, Government of India and special guest Shri Lalchand ji Kataria, Agriculture Minister, Rajasthan, Dr Trilochan Mahapatra, Secretary, DARE & DG, ICAR, New Delhi and Prof. Jeet Singh Sandhu, Vice Chancellor, SKNAU, Jobner graced the function. In the glittering function, 8 meritorious students were conferred with Gold Medals, and a total of 891 UG, PG and Ph.D students were awarded their degrees. Dr Trilochan Mahapatra, Secretary, DARE & DG, ICAR, New Delhi was conferred with *honoris causa* D. Sc. degree.

Winter School

- A 21-day ICAR sponsored winter school on Advance Production Technologies of Underutilized Vegetable Crops under Arid and Semi-arid conditions, was organized by Department of Horticulture, SKN College of Agriculture, Jobner from 21 February to 13 March, 2022.
- A 21-day ICAR sponsored winter school on Disease Scenario in Climate Change Conditions - Challenges, Experiences Innovation and Future Prospects, was organized by Department of Plant Pathology, SKN College of Agriculture, Jobner from 1 to 21 March 2022. Twenty-one participants from seven states participated in the Winter School.

Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), Chennai

22nd Convocation

The 22nd Convocation of TANUVAS was held on 30.03.2022 at Madras Veterinary College, Vepery, Chennai. Hon'ble, Governor of Tamil Nadu and Chancellor of the University Thiru.

R.N. Ravi presided over the function. Minister for Fisheries, Fishermen Welfare and Animal Husbandry and Pro-Chancellor of the University Thiru. Anitha R. Radhakrishnan graced the occasion. The Chief Guest Dr P.K. Joshi, Secretary, National Academy of Agricultural Sciences (NAAS), New Delhi delivered the convocation address, and Dr K. N. Selvakumar, Vice Chancellor delivered the welcome address. A total of 282 students were awarded degrees and diplomas. A total of 108 medals / awards were awarded to 53 graduates for their academic excellence.

TNAU, Coimbatore

International training on Seed Testing for Quality Assurance

An international training on Seed Testing for Quality Assurance under the aegis of Indo-German Bilateral Cooperation on Seed Sector Development was organized by Seed Centre, TNAU, Coimbatore during 7-10 March 2022.



Dr Vilas A. Tonapi, Director, ICAR - Indian Institute of Millets Research, Hyderabad welcomed the gathering and delivered the opening remarks. Dr A. S. Krishnamoorthy, the Acting Vice Chancellor, TNAU delivered the Inaugural Address virtually. Shri Ashwani Kumar, Joint Secretary (Seeds), Ministry of Agriculture and Farmers Welfare, GoI, New Delhi delivered the Special Address. Around 250 participants including the scientists from ICAR Institutes, State Agricultural Universities, and officials from the Department of Seed Certification, Seed Industries, and research scholars participated in the training.

Training Programme on ISO in Food Safety



International Institute for Certification and Training (Approved HABC Centre) conducted a training programme on ISO 22000:2018 Food Safety Management Systems (FSMS) Internal Auditing to the students of B. Tech (Food Technology) / M. Tech (Process & Food Engg) during 28-29 March 2022 under the Institutional Developmental Plan (IDP). BIS experts handled technical sessions.

Training on Agro Ecology and Integrated Farming

Department of Agronomy, Directorate of Crop Management, TNAU, Coimbatore and National Bank Staff College (NBSC), Lucknow of NABARD (National Bank for Agriculture



and Rural Development) jointly organized a Training programme on Agro Ecology and Integrated Farming, during 5-7 January 2022 at TNAU, Coimbatore. Dr C. R. Chinnamuthu, Professor and Head, Department of Agronomy, TNAU; Dr V. Geethalakshmi, Director, Crop Management; Shri. T. Venkatakrishna, Chief General Manager, NABARD, Tamil Nadu, Regional Office, Chennai and Dr Ravi Babu, GM, Farm Sector Development Department, NABARD Head Office, Mumbai delivered technical addresses. Around 25 participants in the cadre of Assistant General Managers to Managers of various Regional offices (States) from all over India attending the training.

Training on Palmyrah Neera Processing and Value addition

One-day training on Palmyrah Neera processing and Value addition, was jointly organized under ICAR-AICRP (Palms) –SCSP Programme by the Department of Horticulture, Agricultural College and Research Institute, Killikulam and KABIF, Killikulam on 22.02.2022. Dr K. Eraivan Arutkani Aiyathan, Dean, AC & RI, Killikulam and Dr S. Tom. P. Silas, Joint Director of Agriculture, Ramanathapuram addressed the gathering. Palmyrah farmers, entrepreneurs and various stakeholders participated in the training programme.



Skill Development Programme on Industrial Energy Audit



Skill Development Programme on Industrial Energy Audit, was organized by Agricultural Engineering College and Research Institute,

TNAU, Coimbatore in collaboration with the South Indian Textile Research Association (SITRA), Coimbatore during 3-4 January 2022 under ICAR-NAHEP-IDP at SITRA, Coimbatore for the final year students of B.Tech. (Energy & Environmental Engineering).

Field Day on Saline Tolerant Paddy Variety TRY 4

KVK Sirugamani organized a Field day under Front Line Demonstration (FLD) for saline tolerant paddy variety TRY 4 at Sembarai village in Lalgudi block of Trichy district on 16.02.2022. The event was chaired



by Dr P. Masilamani, Dean, ADAC & RI, along with the officials of State Department of Agriculture. Thiru. M. Murugesan, Joint Director of Agriculture presided over the programme and delivered special address. In total, 84 farmers participated in the programme and got benefitted.

Bioconcorrenza 2022



Bioconcorrenza 2022, a National level symposium was organized on 01.03.2022 by the B.Tech. (Biotechnology) students of the Centre for Plant Molecular Biology and Biotechnology (CPMB&B), TNAU, Coimbatore. Dr S. Mohan Kumar, Director, CPMB & B delivered the inaugural and introductory

remarks. Invited lectures were delivered by Dr Manoj Prasad, Senior Scientist and JC Bose National Fellow, National Institute of Plant Genome Research, New Delhi and Dr Ravi Maruthasalam, Assistant Professor, School of Biology, Indian Institute of Science Education and Research, Thiruvananthapuram.

Technology and Machinery Demonstration Mela



Department of Farm Machinery and Power Engineering (FM&PE), AEC&RI, TNAU and Indian Council of Agricultural Research, New Delhi jointly organized Technology and Machinery Demonstrations Mela on 17.03.2022. The machineries developed under All India Coordinated Research Project on Farm Implements and Machinery; Ergonomics and Safety in Agriculture; Post-Harvest Engineering & Technology; Energy in Agriculture and Agro-based Industries and consortia research platform on energy from agriculture were demonstrated. Dr A. R. P. Kingsly from Purdue University, USA explained about Maize farming in US using complete mechanization. Mr. Rajkumar Arumugam, Founder and Director, Renaissance Power Products Private Limited and Vice-Chairman of All India Agricultural Machinery Manufacturers Association (AMMA) was the Chief Guest. Dr. A.S. Krishnamoorthy, Registrar and Acting Vice-Chancellor distributed the certificates and awards to the farmers. Totally 27 Manufacturers of Agricultural Machinery participated and displayed their equipments/machineries. Around 500 farmers from 19 KVKs and 300 students benefited from the mela.

Export Conclave and Exhibition organized

Export Conclave and Exhibition organized by Federation of Indian Export Organization (FIEO) in association with the Centre for Agricultural



and Rural Development Studies (CARDS) at TNAU on 25.03.2022. Mr K. Unnikrishnan, District Director General, FIEO welcomed the gathering. Dr M. K. Shanmuga Sundaram, I.A. S, Zonal Additional DGFT & Development Commissioner, MEPZ, SEZ, Chennai delivered the inaugural address. Dr A.S. Krishnamoorthy, Registrar and Acting Vice-Chancellor delivered the special address.

National Youth Convention on Food Security

TNAU, All India Agricultural Students Association (AIASA) and ICAR organized the 7th National Youth Convention at TNAU during 24-25 March 2022, with the core theme of Food security to nutritional security:



Youth perspective. Dr T. Raguchander, National Organizing Secretary and Dean, Students Welfare, TNAU welcomed the gathering. Dr A. S. Krishnamoorthy, Acting Vice-Chancellor and Registrar, TNAU delivered the inaugural address. Dr R. M. Kathiresan, Vice Chancellor, Annamalai University delivered the Keynote Address and Dr R. C. Agrawal, Deputy Director General (Education), ICAR, New Delhi delivered the Presidential Address. Mr Vivek Saurabh, National President, AIASA briefed the importance of the Conference. A book fair and exhibition were also organized. Around 850 participants

attended both online and offline across the country in which 474 students submitted their research abstracts. Under seven thematic areas, separate poster sessions were also arranged in which about 350 participants presented their research findings.

UAS, Dharwad

Participation in International training by Young Faculty at Iowa State University, USA.

Under National Agricultural Higher Education Project (NAHEP)-Institutional Development Plan (IDP) of ICAR, New Delhi, 120 students and 50 faculties are going to be trained in overseas institutes.

Seven faculty are visiting Iowa State University



Vice-Chancellor, Dr. Mahadev B. Chetti and staff of IDP along with seven young scientists visiting IOWA state University, USA.

for three months and are flying in two batches, first batch of five deputed to USA on 9 Jan 2022 and two faculty of second batch on 30 Jan 2022. This programme was scheduled during March 2019 but delayed due to Covid 19 pandemic.

Training on Organic Farming

Farmers should undertake Organic Farming sincerely stressed

Director of Extension, Dr Balachandra K. Naik. He was speaking after



A five-day training programme on Organic Farming was organized at UAS, Dharwad

Programme at UAS, Dharwad from 14 to 19 February 2022 organized jointly by UAS, Dharwad and MANAGE, Hyderabad under Skill Training to Rural Youths (STRY). Seventeen (17) Farmers from Dharwad, Gadag, Belagavi and Haveri participated.



Skill Development Organic Farming Training Programme at UAS, Dharwad

Different aspects of organic farming like production and use of organic fertilizers, sustainable agriculture, soil and water conservation, liquid bio- fertilizers, integrated pest and disease management, bio-fertilizers, agriculture apps, bio-pesticides and soil fertility were dealt in detail by the subject matter specialist. The training programme was organized by Dr S.V. Halakatti and Dr M. Gopala under the leadership of Director of Extension, Dr Blachandra K. Naik.

Certificate distribution programme for Two Year Diploma (Agri/For.)

The two-year Diploma (Agri/For.) certificate distribution programme of all the colleges of Diploma, UAS Dharwad, was held on 30-03-2022. Dean (PGS) and Nodal officer Diploma (Agri./For.) Dr O. Sridevi welcomed all the guests and students and informed that 183 students (165 in Agriculture and 18 in Forsetry) admitted during academic year 2019-20 have successfully completed the Diploma courses. Chief Guest, Vice Chancellor, Karnataka State Law University, Hubballi Prof. (Dr) P. Ishwara Bhat, while addressing the students after distributing the certificates



Kumari Madhu Kallanagoudar was awarded RuddrappaShivappaKiresur Gold medal and a cash prize of Rs. 5000.

183 students (165 in Agriculture and 18 in Forsetry) admitted during academic year 2019-20 have successfully completed the Diploma courses. Chief Guest, Vice Chancellor, Karnataka State Law University, Hubballi Prof. (Dr) P. Ishwara Bhat, while addressing the students after distributing the certificates

asked them to go to their native places and implement the knowledge and skills acquired during the diploma course to improve the agriculture.

Vice Chancellor Dr Mahadev B. Chetti in his presidential remarks complimented all the students on their successful completion of Diploma course.

Madhu Kallanagoudra from Diploma (Agri.) College, Konnur who secured the highest score among the Diploma students was awarded Rudrappa Shivappa Kiresur Gold Medal and Rs 5000/ cash prize. The students who secured highest marks from different campuses of University were also awarded with a cash prize of Rs 5000/ and a certificate.

Short course on Recent Advances in Nano-Biotechnology and Biological Management

Department of Plant Pathology, University of Agricultural Sciences, Dharwad organized 10-day short course on Recent Advances in Nano-Biotechnology and Biological Management Approaches in Emerging Diseases of Field and Horticultural Crops for Export Promotion under the



Former Vice-Chancellor of UAS, Dharwad Dr. J.H. Kulkarni, inaugurated 10 days short course on Recent Advances in Nano-Biotechnology and Biological Management.

sponsorship of Indian Council of Agricultural Research, New Delhi from 3 to 12 March 2022. Former Vice Chancellor of UAS, Dharwad Dr J.H. Kulkarni inaugurated the programme. He urged the participants to adopt modern nanotechnology in agriculture for improvement in the agricultural produce. He emphasized that nature has to be protected only through biological management, soil management and pest management.

In the presidential remarks, Vice-Chancellor, Dr M.B. Chetti, informed about the importance

of nanotechnology and biological control in the interest of farming community and society.

Twenty-five scientists from across the country i.e., Punjab, Jammu & Kashmir, Uttar Pradesh, Assam, Odisha, Andhra Pradesh, Telangana, Maharashtra and Karnataka State Agricultural Universities participated to get benefit of this new technology in agriculture to manage soil health, plant pathogen to make agriculture more sustainable.

Celebration of 73rd Republic day

Vice Chancellor, UAS, Dharwad, Dr Mahadev B. Chetti unfurled the national flag during the 73rd Republic Day celebrations at UAS, Dharwad. During his Republic Day Speech Vice Chancellor conveyed best wishes of the Republic Day to everybody.

Members Board of Management, Past Vice Chancellors, Officers, Teachers, Supporting Staff and Students participated in the Republic Day celebrations in large number.



Vice-Chancellor Dr Mahadev. B. Chetti unfurled the National flag during celebration of 73rd Republic day at UAS, Dharwad

Centenary Celebrations of a Genius Agricultural Scientist - Dr S. V. Patil

Curtain raiser function of Centenary Celebrations of Dr S. V. Patil, the genius agricultural scientist, was organized on 25.02.2022. The chief guest of the function Dr Ashok Dalwai, CEO National Rainfed Area Authority recalled his association with Dr S. V. Patil. He said that farm ponds, agro forestry

and research blocks established in the campus are proof of his foresightedness, and is reflected in the growth of present campus. He requested the alumni of the college to contribute for the development of the campus as done in other countries.

Programme started with the floral tribute to the photo of Dr S. V. Patil and lighting of lamp. Vice Chancellor, UAS, Dharwad and president of the function Dr M. B. Chetti recalled his association with Dr S. V.

Patil during college days and expressed that the development of University of Agricultural Sciences, Dharwad from College of Agriculture is mainly because of the efforts of Dr S. V. Patil. Vice Chancellor, UAS, Bengaluru Dr Rajendra Prasad felt that, his ideas of farm pond, organic agriculture, natural farming, integrated farming system are practical and worth following in the present scenario also. Vice Chancellor, UAS, Raichur Dr K. N. Kattimani, revealed the marketing issues in achieving doubling farmers income and need to conduct survey on requirement of food grain production in our country. Vice Chancellor, KSNUAHS, Shivamogga, Dr M. K. Naik expressed that the concept of Land Grant college was understood



Inauguration of Centenary Celebrations by lighting lamp and floral tribute to Dr. S. V. Patil photo.



Dr Ashok Dalwai CEO National Rainfed Area Authority delivering chief guest address

and successfully laid down in our country by Dr S. V. Patil, and he dedicated his life for the development of agriculture. Members Board of Management, UAS, Dharwad, Sri L. S. Ajagannavar, Sri Y. N. Patil, Founder Vice Chancellor, UAS, Dharwad Dr J. V. Goud, Director, Defence Technology Collaboration, US Department of Defence, USA and Son of Dr S. V. Patil, Dr Ashok S. Patil and Officer on Special duty to Minister for Agriculture, Government of Karnataka, Bengaluru, Dr A. B. Patil, former Vice Chancellors, officers of the University, teaching and non-teaching faculty and students participated in the programme.

University of Horticultural Sciences (UHS), Bagalkote

Field Day

On Field day on Onion Seed Production held in sector no 1, Navanagar, Bagalkot on 16.03.2022.



On 16.03.2022 Participated and inaugurated the field day on 'Onion Seed Production Field Day' held at Sec No.1 Organized by the Special officer, Seed Unit and HEEU, UHS, Bagalkot.

VC, UHS, Bagalkote visited Texas A & M University (TAMU), Houston

Vice Chancellor, UHS, Bagalkote along with Registrar visited Texas A & M University (TAMU), Houston, USA. During visit they interacted with faculty and students, and visited



Welcoming of the V.C., UHS at TAMU

Department of Horticultural Science, College of Agriculture and Life Sciences, Dr Norman Borlaug Institute located in the TAMU College Station, Wine Testing Laboratory, Floral Arts Design Lab of the Department of the Horticulture, Department of Agricultural Leadership, Education and Communication Department of the TAMU Agri Life Division in the College of Agriculture and Life Sciences, Vegetable and Fruit Improvement Center of the Texas A & M Agri Life Science Division and Dr George W. Bush Memorial Library & Museum of the TAMU, and also visited University of California. During his visit he also interacted with officials and students.



Interaction with Students of VFIC at TAMU

AWARDS & RECOGNITION

BAU, Ranchi

Unnayan-2022

In national competition Unnayan-2022 organized by MANAGE, Hyderabad in online mode, students participated in all 11 different events and won 11 prizes, which included five first prizes.

GADVASU, Ludhiana

Best film Award

The Punjabi film entitled "Zoonosis- Disease between Animals and Human" developed by scientists of GADVASU was adjudged as the Best Punjabi language film in the MANAGE Agri



Film festival-2022 organized by the National Institute of Agricultural Extension Management (MANAGE) Hyderabad, Telangana, India.

- Dr J.S. Bedi, Director, Centre for One Health has been nominated as member of the State level Zoonoses Committee by the of Ministry of Health and Family Welfare, Government of India.



- Dr Sreekala S. Mohandas, Assistant Professor, College of Veterinary Science, Rampura Phul received ISVIB-GADVASU Women Scientist Award from the Indian Society for Veterinary Immunology and Biotechnology during International conference on Transforming Livestock Economy through innovations in Immunology and Biotechnology, from 4-5 February 2022, organized by ISVIB and College of Animal Biotechnology, GADVASU, Ludhiana.



- Ms Hina Malik, a Ph.D. scholar, working on Antimicrobial resistance (AMR) bagged the Alexander Fleming Prize for the best post graduate research proposal in Student Research



Championship for AMR 2021, organized by ReAct Asia Pacific and ASPIC Club from Aug-Nov 2021. Her work was also adjudged as the 'Best Innovative Idea' at the Antimicrobial resistance DX Bootcamp, organized by IIT DELHI on 28-29 March, 2022.

- The research story of Dr Deepthi Vijay, a Ph.D. student has been selected amongst the best popular science stories under DST-AWSAR Award 2021 organized by the Department of Science and Technology (DST), Government of India on National Science Day-2022.



MPUAT, Udaipur

- ICAR, IINRG, Ranchi Awarded the NPCLIGR Udaipur centre for its outstanding achievement in IX-Coordination meeting; 20-21 January, 2022.
- Dr N. L. Panwar, DREE is named among the top 2 % scientists worldwide in Energy field, in a survey conducted by Stanford University, USA in 2021.
- College of Technology and Agricultural Engineering (CTAE) got 4th Place in Performer Band and 15th Rank in overall Govt institutes in ATAL ranking of Institute for Innovations and Achievements (ARIIA).

NAU, Navsari

Awards received by farmers of KVKs working under NAU jurisdiction

- Nari Shakti Puraskar* – 2020 awarded to Smt Vasava Usha ben Dinesh Bhai, Village: Panchpipri, Taluk: Sagbara, Dist: Narmada by Hon'ble President of India on 8



March 2022 for organic farming and social worker.

- Smt Tajuben Gonyabhai Vasava, Village: Ubhariya, Taluk: Sagbara, Dist: Narmada felicitated with Unnati Award-2022, NRLM Narmada, Gramin Vikas Mantralay, GoI on 24 March 2022.



- Ms Shruti Singh, eighth semester, B.Sc. Forestry student, her team and mentor Dr S.K. Sinha, Assistant Professor, Forestry received first prize (Rs 25000), for presenting their innovative research ideas in Forestry theme in the National Hackathon entitled Smart and Remunerative Farming held on 5 March 2022 in the Navsari Agricultural University, Navsari under ICAR-NAHEP-CAAST project.
- Mr Ritesh Ahir, eighth semester, B.Sc. Forestry student, his team and mentor Dr Dileshwar Nayak Assistant Professor, Forestry received second prize (Rs. 15,000) for presenting their innovative research idea in Food Quality and Safety theme in the National Hackathon entitled Smart and Remunerative Farming held on 5 March

2022 in the Navsari Agricultural University, Navsari under ICAR-NAHEP-CAAST project.

- Ms Laxmi Prasanna, Ph.D. Agriculture student, her team and mentor Ms Kotramma Addangadi, Assistant Research Scientist (Plant Pathology), received second prize (Rs 15,000) for presenting their innovative research idea in forestry sector theme in the National Hackathon entitled Smart and Remunerative Farming held on 5 March 2022 in the Navsari Agricultural University, Navsari under ICAR-NAHEP-CAAST project. Ms Dolly Vaishnavi eighth semester, B.Sc. Forestry student, her team and mentor Dr Jayesh Pathak, Assistant Professor, Forestry received third prize (Rs 10,000) for presenting their innovative research ideas in Forestry theme in the National Hackathon entitled Smart and Remunerative Farming held on 5 March 2022 in the Navsari Agricultural University, Navsari under ICAR-NAHEP-CAAST project.

PJ TSAU, Hyderabad

Jury Prize 2022

PJ TSAU film entitled “More Crop Per Crop Community Drip Irrigation in Tank Command Areas of Telangana-A Success Story” was selected for the Jury Prize-3 with a cash award of Rs10,000 along with certificate and a memento in the MANAGE Agri Film Festival 2022 on 11 March 2022.



MANAGE Agri Film Festival 2022

Innovative Farmer Award

KVK, Palem Farmer Shri Byra Paga Raju from Nagarkurnool received IARI Innovative Farmer Award 2022 on 11 March 2022 by IARI for his immense contribution in Agriculture especially in organic farming during the Pusa Krishi Vigyan Mela 2022 held at IARI, New Delhi from 9 to 11 March 2022.



IARI Innovative Farmer Award 2022

Staff Awards

Dr G. Sridevi, Principal Scientist and Head, AINP on Pesticide Residues, Rajendranagar was awarded Women's Leadership Award - 2022 in Agriculture.

SKNAU, Jobner

- AICRP - Pearl Millet, RARI, Durgapura of SKNAU received Best Centre Award from ICAR on March 2-3, 2022 during annual workshop of AICRP (Pearl Millet).

MOUs & TECHNOLOGIES COMMERCIALIZED

BAU, Ranchi

MOU with Soka University, Japan

Memorandum of Understanding was signed between Birsa Agricultural University, Ranchi and Soka University, Tokyo, Japan on 22.03.2022 for mutual cooperation and exchange in teaching, research, publication and other academic activities.

GADVASU, Ludhiana

MoU with Care India to outreach remote areas

College of Veterinary Science (CoVS), Rampura

Phul of GADVASU signed an MoU with Care India Solutions for Sustainable Development (CISSD), New Delhi, a Non-Governmental Organization (NGO) to strengthen and extend the outreach of college to the remotest villages of Punjab.



Agreement with Reliance India Limited for Pet Food Trials

GADVASU entered into an agreement with M/s Reliance Industries Limited (RIL), Mumbai to study the utilization of RIL plant-based protein biomass in pet foods. Dr J.P.S. Gill, Director Research, GADVASU and Dr Santanu Dasgupta, Senior Vice President at Reliance inked the agreement in the presence of Dr Inderjeet Singh, Vice Chancellor, GADVASU.



MoU to Optimize the Level of Biscuit, Snacks and Noodle Waste in Dairy Animal Feeding

GADVASU inked an MoU with S.S. Wastelink Sustainability Services Private Limited, New Delhi to study the effect of supplementing biscuit, snacks and noodle waste to the total mixed ration on milk production, quality and reproduction in dairy animals. Dr J.P.S. Gill, Director of Research, GADVASU and Mr Saket Dev, Director, Wastelink company signed the MoU. Dr J.S. Hundal, Principal Investigator shared that the use of by-products from various food industries in animal feeding would help to economize the production as well as facilitate recycling and valorizing the wasted food to curb environmental pollution.

MPUAT, Udaipur

MPUAT, Udaipur signed MoUs with various organization:

- Total 5 MoUs were done among which 4 have been done with Rajasthan Cooperative Dairy Federation of Udaipur, Bikaner, Bhilwara, and Ajmer. One has been with Preeti Ice-cream, Jaipur.
- CCAS, MPUAT, Udaipur signed an MoU with Jatan Sansthan in January 2022 in the field of skill development, training, education and research.
- The MoU of Pratap Hybrid Maize-3 has been made between MPUAT, Udaipur and M/S Sona Genetics Pvt. Ltd Ahmadabad (Gujarat).

By Commercialization of Pratapdhan, Broiler Rabbit, Mineral Mixture and Quails, the university generated a revenue of Rs 77.00 lakh.

NAU, Navsari

NAU, Navsari signed 07 MoUs with National Institutes and university for training and research purposes.

- License agreement for Biofortified variety 'CFMV-2/GIRA' of finger millets as a technology, for the promotion of millets and millet value chain activities on 16 February 2022 with the following:
 - Ridhi Sidhi Sakhi Manadal, Nadagkhadi, Pimpri, Dang.
 - Krimisha Sakhi Mandal, Waghai, Dang.
 - Lotus Fal Ane Shakabhajee Sahkari Mandali, Nanapada, Waghai, Dang.
 - Bhakti Mata Mahils Khedut Samuh, Jamlapada, Waghai, Dang.
 - Neelkanth Khedut Sangathan, Borpada, Waghai, Dang.
- Climate change impact on Agriculture along with research, training and capacity

building on 21 February 2022 with Gujarat Energy Development Agency, Gujarat.

- Agreement for facilitating advertising, customer targeting and digital marketplace experience *via* Titodi Bazar Platform by developing content for product showcase on 10 March 2022 with Titodi Info Tech Pvt. Ltd, Surat.

PJTSAU, Hyderabad

- Ag Hub, PJTSAU entered into a MoU with Telangana State Innovation Cell (TSIC) of the Information Technology, Electronics & Communications Department, Government of Telangana on 10 January 2022 to provide technical back stopping to grass root entrepreneurs and students in the State of Telangana.
- MoU was signed between PJTSAU and Agri Biotech Foundation (ABF), PJTSAU Campus, Rajedranagar, Hyderabad on 25 January 2022 for collaboration in R&D activities.



MoU signing ceremony

- MoU was signed between PJTSAU and M/s Dhanuka Agritech Limited (DAL) New Delhi on 12 February 2022 at the university headquarters, focusing on the theme Transforming India



MoU signing ceremony

through Agriculture – Technology adoption by Farmers.

- MoU was signed between PJTSAU and Bio Agri Inputs Producers Association (BIPA), Secunderabad on 12 February 2022 at Hotel Park Hyatt, Hyderabad to cooperate in conducting training, research and development activities for the transformation of Indian Agriculture and Agri-enterprises in particular.
- MoU was signed between PJTSAU and ICAR-National Bureau of Agricultural Insect Resources (ICAR-NBAIR), Bengaluru, Karnataka on 18 March 2022 for undertaking collaborative research.
- MoU was signed between PJTSAU and ICAR-Central Coastal Agricultural Research Institute, Old Goa on 30 March 2022 for undertaking collaborative research.
- The University has entered into an MoU with three companies *viz.*, M/s. Deccan Mudra, M/s. Mulkanoor Cooperative Society and M/s. SPV Foods, for marketing of Telangana Sona Rice to promote its attribute of low Glycemic Index (GI) for the diabetic population.



- The University has renewed the production and marketing license of maize hybrid DHM 117 pertaining to Sri Chakra Seeds, Kurnool for another three years.

SKNAU, Jobner

SKNAU, Jobner signed following MoUs:

- With CSWRI, Avikanagar on 03.01.2022 to Develop co-operation and collaboration in research for development particularly in Animal Nutrition, Animal Breeding and Genetics, Livestock Production and Management and other agreed activities.
- With One Life foundation on 07.01.2022 - For commercialization biofortified hybrid Pearl millet RHB 234.
- Krishi Vigyan Kendra, Kotputli, Jaipur-II (SKN Agriculture University, Jobner) and Barmalt Malting (India) Private Limited, Village Keshwana Rajput, Tehsil Kotputli, Jaipur on 20.02.2022 for -Introduction of new malting barley varieties, on-farm testing and frontline demonstrations of high yielding varieties of 2-row malting barley developed by the ICAR- Indian Institute of Wheat & Barley Research, Karnal and RARI, Durgapura for establishing production potential on the farmer's fields and accordingly promote cultivation of high yielding malting barley varieties in this region.
- With South Asia Biotechnology Centre, Jodhpur on 23.03.2022 for- Establishment of mutual relation between the scientific and technical divisions and creation of facilities for exchange of scientific, technology and experts for their proper placement.
- With Dhanuka Agritech Limited on 24.03.2022 to- Impart skill training to the student protection, provide fellowship to the PG & PhD, conduction of bio-efficacy trials and use drone in agriculture and DAL sponsored research for developing diversified sustainable farming system.
- With CIAT-PUSA Campus, New Delhi on 26.03.2022 for - Developing long term strategies and plan of scout, document and recognize grassroots innovators agri-

biodiversity innovators of grassroots farmer to address their local needs, health, poverty and nutritional security.

- License agreement was made for production, marketing and commercialization of Bio-fortified Pearl Millet Hybrid Variety RHB -234 with Interlink Foods Pvt. Ltd, Saket District Centre, New Delhi – 110017 on 07 January 2022.

TANUVAS, Chennai

- TANUVAS executed MoU with Tamil Nadu Agricultural University, Coimbatore on 21.02.2022 for facilitating faculty research / capacity building on fodder improvement and production. The MoU is valid for a period of five years.
- TANUVAS executed MoU with Tamil Nadu Rural Transformation Project (TNRTP), Chennai on 24.02.2022 to work together for the betterment of farming community through TANUVAS-KVKs. The MoU is valid for a period of one year.
- The technology on Vero cell-adapted Lumpy skin disease virus strain, developed by TANUVAS was commercialized to M/s Biovet Pvt. Ltd, Bengaluru for large scale production by executing MoA on 24.03.2022.

TNAU, Coimbatore

- **Technology Transfer Agreement between TNAU and M/s. VishruthiAgro Tech, Trichy:** Department of Farm Machinery and Power Engineering, Agricultural Engineering College and Research Institute, Coimbatore and M/s Vishruthi Agro Tech,



Trichy signed a Technology Transfer Agreement on 31.01.2022 for the commercialization of TNAU Paddy Drum Seeder.

• **MoU signed between TNAU and NEC:**

TNAU, Coimbatore and NEC Corporation India Private Limited (Erstwhile, NEC Technologies India Private Limited),

New Delhi signed MoU virtually on 03.02.2022

for developing Artificial Intelligence (AI) powered platform for diagnosis of major diseases of tomato, by applying state-of-the-art deep learning techniques.



• **MoU signed with Covestro (India),**

Mumbai: An MoU was signed with Ms. Covestro (India) Pvt. Ltd, Mumbai for collaborative research in Solar dehydration and Solar cold storage technologies in vegetable crops on 25.02.2022.

It is planned to standardize, certify and disseminate standard operating procedures of dehydration of vegetables using Solar Greenhouse drier and solar cold storage facilities.



• **MoU signed with Lakshmi Card Clothing,**

Coimbatore: Agricultural Engineering College and Research Institute, Coimbatore and M/s Lakshmi Card Clothing Manufacturing Company Private Limited, Coimbatore signed an MoU on 09.03.2022 for technical collaboration to explore the prospects and to enhance research activities on utilizing Radio Frequency sterilizer in processing and food safety by

disinfection, disinfestations and moisture levelling of food products through collaborative research work with Department of Food Process Engineering, AEC&RI, TNAU, Coimbatore based on mutual interest.



• **MoA with World Resources Institute:**

Recognizing the pressing need for establishment of Trees Outside Forests (TOF) in the state, the Consortium of Industrial Agro Forestry (CIAF), Forest College and Research Institute, Mettupalayam entered into a MoA with World Resources Institute.



• **MoU signed with Aerial Drobotics on handling of drones:**

An MoU was signed between TNAU, Coimbatore and M/s. Aerial Drobotics Private Limited, Namakkal on 22.03.2022 for Technical



expertise and transfer of knowledge, training in operation and handling of drones, programming and software development support for the research project Development of a Drone for Spraying and Harvesting in Coconut Palms.

PATENTS

MPUAT, Udaipur

- A method for the preparation of control release urea nano formulation for plant: Applicant: MPUAT and Inventor Vinod Saharan (Patent No 394320).
- Trilok Gupta, Ravi K. Sharma, Sandeep Chaudhary and Salman Siddique (2020). "Composition for Preparation of Paver Block Utilizing Rubber Waste" Application No. 202011018399, Patent No. 385236, Date of Grant 27.12.2021.
- Trilok Gupta, Ravi K. Sharma and Digvijay Singh Chouhan (2020). "A composition comprising waste brick powder for preparation of eco-friendly paver block", Patent No. 386333, Date of Grant 10.01.2022.

TANUVAS, Chennai

Patent (No. 391161) has been granted on 04.03.2022 for the invention on Genotype specific cell culture vaccine for Newcastle disease developed by the faculty members of TANUVAS.

OTHER ACHIEVEMENTS

BAU, Ranchi

Sports festival

Two-day Sports Festival - 2022 was organized by Faculty of Agriculture during 30- 31 March 2022. 300 Students from Ranchi Agriculture College, Kanke, Ranchi; College Horticulture, Khuntpani (Chaibasa) and College of Agricultural Engineering, Kanke, Ranchi participated in the sports festival.

GADVASU, Ludhiana

Visits of Distinguished Expert(s) under the World Bank funded project –NAHEP-IDP

- Professor Eduardo Bastianetto, Department of Preventive Veterinary Medicine, Minas Gerais State University, Brazil visited GADVASU as International Visiting Professors



from 20 February to 24 March 2022. Professor Eduardo an expert in the field of parasitic disease control and management particularly in buffalo populations delivered expert talk(s) on various aspects of important parasitic diseases.

- Dr Jaswant Singh, Professor, Biomedical Sciences, Western College of Veterinary Medicine, University of



Saskatchewan, Canada visited as the international visiting professor from 15.03.2022 to 25.03.2022 and delivered talk(s) to students.

Mobile Application released



Dr Indejeet Singh, Vice Chancellor, GADVASU released the Mobile Application entitled 'GADVASU Services' at the monthly seminar for

Dairy Farmers. The application developed by the University scientists provides single window access to information regarding all the services of the University for various stakeholders involved in livestock sector.

GBPUAT, Pantnagar

Selection of students of the university in reputed companies

- M/s Dhanuka Agrotech Limited, one of India's largest agrochemical companies, has selected three agriculture students from the university, Sneha Shikha, Shamli Chauhan, and Sadhna Chauhan, based on an online interview. Alima Shahnaz, a B.Tech. (Biotechnology) student was also selected for DHL Supply Chain India Pvt. Ltd. after an online interview. After completing their training, the selected students will receive a package worth Rs 7.00 to 8.00 lakh year.
- Veterinary college students, Dr Nikita Karki and Dr Neha Pant were selected through an interview by Advanced Pet Care Private Limited Company, one of the leading pet care companies in India as a reputed employment-oriented organization based on veterinary medicine. After the training to the selected students, a package of about Rs 7 to 8 lakh will be given every year.
- M/s Reliance ADA Group Limited (BSES Yamuna Power Ltd.) has selected 2 students, Akarsh Saxena and Kajal Gusai through an online interview. At the time of training, selected students will get a package of about Rs 5 lakh.
- M/s Larsen & Toubro, which is a multinational company in India participated for campus placement of the university students. A total of 250 students applied for the various posts for selection in Larsen & Toubro Company. 29 students from the university got placed on the basis

of online interview with a package of Rs 6.30 lakh per annum at the time of training itself.

- Online applications were made by 15 B.Tech.(Biotechnology) students through the Directorate of Placement and Counselling of the university for selection in another company M/s Sarsa Solutions. The company selected 07 students on the basis of online interview.

Achievements of IDP-NAHEP

- 2-day 17th National Youth Conference 2022 was facilitated by IDP-NAHEP, Pantnagar in virtual platform. The inaugural session which was conducted on 12 January 2022 at Faculty Development Centre, IDP-NAHEP, Pantnagar was chaired by Dr Shekhar C. Mande, Secretary- DSIR and DG- CSIR, Dr. Tej Partap, Vice Chancellor, and Dr S.K. Kashyap, Dean College of Agriculture, students from across the universities participated virtually in the session and listened to the journey of success of reputed dignitaries including Padma Shi awardee Shri Prem Chandra Sharma and Shri Chandra Shekhar Singh. Later, IDP-NAHEP facilitated an interactive session in which Shri Jayant Sahasra budhe, National Organizing Secretary-Vijnana Bharti and Shri Nikhil Yadav, Prant Yuva Pramukh- Vivekananda Kendra shared their experiences and presented their views on role of youth organizations in generating scientific accomplishments for India.
- IDP-NAHEP Pantnagar organized a Seminar on Exploring Counseling strategies: A Way to Institution Building on 12 March 2022. A total of 65 participants including faculty members and Ph.D. students across the colleges attended the seminar. The speakers of the session were Vice Chancellor, Dr Tej Partap and Veteran Psychologist, UAS Shimoga, Dr M.S. Vignesh. The programme was graced by the presence of DDG (ICAR), Dr R.C. Agrawal and National Director-NAHEP, New Delhi who released the book

titled *Counselling Students: Fundamentals and Skills for Improving Personality and Performance* authored by Dr Tej Partap and Dr M.S. Vignesh.

- The team of students undergoing internship on Radio programme production under the guidance of IDP-NAHEP Pantnagar developed and broadcasted scheduled episodes this month in *Pantnagar Janwani* 90.8 FM- The Community Radio Station. On 16 March 2022, the first episode of *Matdaan ka Mahatva* was broadcasted under the series of programme '*Loktantra ka Samman: १०० Pratishat Matdaan*' prepared by Mr Atul Gaur, Ms Garima Dwivedi, Mr Prabhat K. Singh and Ms Rachna Kumari (Link to the programme: <https://fb.watch/bNOQz437wS/>). The radio programme with the title *Krishak Uthan* prepared by the team of Mr Vijay Dangwal, Ms Anjali Rawat and Mr Shivam Joshi was also broadcasted on 16 March 2022. (Link to the programme: <https://fb.watch/bOvvhaiV7J/>). On 19 March 2022, the first episode of Food Security was broadcasted under the series of programme *Aaharam* prepared by Ms Sushma Swami, Ms Rhythm Maini, and Mr Gaurav Kabdwal (Link to the programme: <https://fb.watch/bRNM3XqEvX/>). The radio programme with the title Entrepreneurship & Start-up prepared by the team of Mr Ashu Sharma, Ms Deepshikha Choudhary, Ms Gunjan Pandey, and Ms Nandini Mishra was broadcasted on 20 March 2022 (Link to the programme: https://m.facebook.com/story.php?story_fbid=108168355161088&id=104871975490726&sfnsn=wiwspmo).

MPUAT, Udaipur

- More than 195 students of CTAE were placed with a maximum package of Rs 23.4 Lakh Per Annum through campus placement in reputed companies including Tata Steel,

Tata Chemicals, Secure meters, TCS, Tata Power, Argusft, GR Infra Structure, SK Khaitan Mining, JK Cement, TAFE, Wonder Cement, Escorts Tractors, etc.

- Farm Machinery Testing Centre of Technology and Engineering generated revenue of Rs1.25 Crore in the financial year 2021-22

PJTSAU, Hyderabad

Use of Drone in Agriculture

- With a vision to mainstream the field applications of drone technology at farmer level, Professor Jayashankar Telangana State Agricultural University (PJTSAU), Hyderabad has become the first Agricultural University in India to get approval from the Director General of Civil Aviation to carry out research in agriculture using drones.
- Through a network project utilizing Research innovation funds, a study on developing Standard Operating Procedures for using drones in pesticide spraying was initiated and validated in a Public Private Partnership mode with Marut Drone Tech Limited for mandate crops like rice, cotton, pigeonpea, groundnut, sesame, soybean and safflower, which are predominant crops of the State of Telangana covering > 95% cropped area.
- Currently PJTSAU is handling a new Research project on Development of package of practices for direct seeded rice using drones, supported by funding from NABARD, envisaging conservation in rice production in association



Working Model of SOP's for Drone Spraying of Pesticides in Rice

with Marut Drone Tech Limited, which is first of its kind in the country.



RPAS in operation in of the research plots of the University

SKNAU, Jobner

Agri Expo-2022



Three-day Agri Expo-2022, was organized by Directorate of Extension Education (DEE) from 28-30 March 2022 at Sri Karan Narendra Agriculture University, Jobner. The programme was inaugurated by Shri Ashok Gehlot, Chief Minister, Govt. of Rajasthan; Special Guest Sh. Lal Chand Kataria, Minister of Agriculture, Animal Husbandry and Fisheries, Sh. Mahadev Singh Khnadela, Chairman, Kisan Ayog, Prof. Jeet Singh Sandhu, Vice Chancellor, SKNAU, Jobner and Dr Sudesh Kumar, Director, DEE. There were 108 exhibition stalls in the expo and about 9,500 farmers visited the Agri Expo-2022.

The drone was demonstrated to Chief Minister, Rajasthan during the inaugural function of Agri Expo – 2022 held on 28 March 2022 at SKN Agriculture University, Jobner.



TNAU, Coimbatore

National Science Day Celebrated

National Science Day was celebrated by Centre for Plant Molecular Biology and Biotechnology (CPMB & B), TNAU, Coimbatore on this year's theme- Integrated Approach in Science and



Technology for a Sustainable Future, on 28.02.2022 by conducting scientific competitions for school children and by organizing popular lectures. Dr Ganesh Hingmire, an IP and GI enthusiast was the invited speaker for the event. Mr M. Saravanan, IAS, Director, Indian Ocean RIM Association Secretariat, Mauritius was the Guest speaker.

UAS, Dharwad

Minister for Sugar and Textile Industry, GoK, Shri Shankar Patil Munenkoppa visited the University

Minister for Sugar and Textile Industry, GoK, Shri Shankar Patil Munenkoppa, visited Handloom and Power loom units of the Department of Textile and Apparel Designing, College of Community Science, UAS, Dharwad on 31.01.2022 witnessed R & D activities viz., value addition to underutilized natural fibers, product diversification and value addition to Kaudi art, natural dyeing and its value-added products, functional clothing etc., and

appreciated the work. Additional Director for Textile and Handlooms, GoK, Shri Yogesh, Joint Director, Textile and Handlooms, Belagavi, Shri Padake, Deputy Director and Shri Sankale, staff of Textile and Handlooms, Dharwad attended the meeting.



Hon'ble Minister for Sugar and Textile Industry, GoK, Shri Shankar Patil Munenkoppa, visited inspected handloom and power loom units, UAS, Dharwad

He expressed in his speech that, locally grown cotton can be effectively utilized by the local cotton ginning and spinning units for sustainability and establishment of as many textile parks to create employment opportunity for the local youths to avoid migration from village to cities. Vice Chancellor, Dr Mahadev B. Chetti, assured to support R&D on ELS (Extra-long Staple) cotton to cater the needs of textile industries of Karnataka. Associate Director of Research (HQ), Dr I. S. Katageri, Emeritus Professor, Dr S.S. Patil, Cotton scientist, Dr Majula Maralappanavar, explained status and importance of DCH-32 and Extra long staple cotton.

FUTURE PROGRAMMES

NAU, Navsari

- 31st National Conference on “Innovative resource management approaches for coastal and inland ecosystems to sustain productivity and climate resilience” will be organized from 13 to 15 October 2022, by the Gujarat Chapter, Soil Conservation Society of India (SCSI), India and Navsari Agricultural University, Navsari, Gujarat.

PJTSAU, Hyderabad

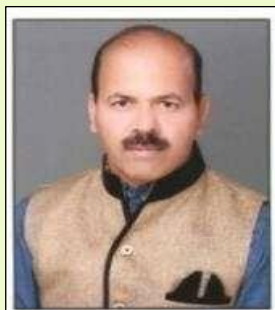
- Soil Health Management for enhancing organic carbon through promotion of diversified cropping systems, crop residue management, green manure crops, use of bio-fertilizers including site specific nutrient and use of nanomaterial for controlled-release of nutrients in major crops to reduce fertilizer use and GHG emissions in major crops.
- Establishment of Advance Center of Excellence on Organic, Agro-photovoltaic & Precession Farming Models Hydroponics, Aquaponics and Aeroponics using Artificial intelligence (AI), Internet of things (IoT), Remote sensing - Geographical information systems (RS-GIS) and Sensors.
- Development of Standard Operating Protocols (SOPs) for spraying and diagnosis using drones including skill training for rural youth.
- Establishment of Plant phenomics / Speed Breeding facilities to hasten-up breeding of crop Varieties / Hybrids.
- Establishment of Nano Technology Lab for initiating research on use of nanomaterial's for controlled-release of nutrients, pesticides and fertilizers in crops as well as nano sensors for agricultural practices, food quality and safety.
- It is proposed to intake 1004 UG, 255 PG and Ph.D. and 820 diploma students during the year 2022-23.
- It is proposed to undertake 350 Training Programmes, 315 Technology Assessment and Refinement activities, 1200 Diagnostic Field Visits, 160 Method Demonstrations, 50 *Kisan Melas* in all district headquarters and 30 Farmer Interaction programmes during the year 2022-23.

NEW VICE CHANCELLORS

Indira Gandhi Krishi Vishwavidyalaya, Raipur

DR GIRISH CHANDEL

Dr Girish Chandel is a renowned Plant Breeder/ Biotechnologist with Ph.D. in Agriculture with 30 years' experience of agriculture education, research and extension, including about 10 years of experience on Research Management.



Before holding the office of Vice chancellor, he was Professor and Head in Indira Gandhi Krishi Vishwavidyalaya and also working as OSD in Department of Agriculture and Biotechnology and CEO- Biotech Promotion Society, a Nodal agency for Biotechnology of the state. Recently the SC Bose Biotech Incubation Centre under Chhattisgarh (CG) Biotech Park is being established under the leadership of Dr Chandel in the state of CG to provide a platform for innovations and entrepreneur development youth of CG.

He has Supervised 15 Ph.D. scholars and 80 M.Sc. students till date and majority of them are well placed. He was Task Force member of DRD of DBT, Govt of India, New Delhi for biotechnology teaching and HRD development Policies for Indian Universities. He has successfully completed more than 15 national and international projects worth Rs 20 crore, which resulted in development of India's First Zn Rich rice, CGZR-1. Other very popular varieties developed include CGZR-2, Sugar Balance White Rice variety Madhuraj, CGAR-2, ZincoRice-MS and a protein rich rice variety Protezin. Considering the importance of these varieties, Govt of CG announced incentives for its cultivation under Rajeev Gandhi Kisan Nyaya Yojana.

His contribution in rice genetic improvement

has led to the receipt of Best AICRP Centre Award by IIRR, ICAR in the year 2016. He has also published more than 80 high impact research papers and 3 book chapters. He is Recipient of Prestigious Doctoral fellowship from IRRI, Philippines; N E Borlaug fellowship" 2006; Young Scientist Award (1992); Kisan Samman Patra of Chhattisgarh in 2013; Outstanding Achievement Award of IGKV for 2015; and Samman Patra of CG by Rotary International Chhattisgarh Chapter in the year 2015. Considering his expertise and contributions in the field of Agriculture, Nutrition and Climate Change, GoI, nominated him as expert member Task Force member for proposal submitted under Indo- German and Indo-Netherlands cooperation's programme to DBT, Govt of India.

Tamil Nadu Agricultural University, Coimbatore

DR V. GEETHALAKSHMI

Assumption as Vice-Chancellor Tamil Nadu Agricultural University, Coimbatore

Dr V. Geethalakshmi, was appointed as the 14th Vice Chancellor of Tamil Nadu Agricultural University, Coimbatore on 29.03.2022 by which she becomes the first woman Vice Chancellor of TNAU during the Golden Jubilee year.



Dr Geethalakshmi Vellingiri, is specialized in Agricultural Meteorology and has served in Tamil Nadu Agricultural University for more than 32 years under various capacities including Professor and Head and Director (Crop Management). Dr Geethalakshmi had her agricultural education at TNAU and did her Post-Doctoral trainings in the field of weather forecasting, climate modeling, climate change

and development climate resilient technologies in leading International institutes at Australia, UK, US, Israel and in Japan.

During her tenure as professor and Head, she was instrumental in creating Agro Climate Research Centre at TNAU and introduced M.Sc and Ph.D programmes in Agricultural meteorology. She has guided 20 Post Graduate, 17 Doctoral students and 4 Post-Doctoral Fellows. Dr Geethalakshmi has established research collaboration with 40 Institutions across five continents in the Globe, successfully completed 23 externally funded research projects worth Rs 58 crore, developed 8 management technologies and published >120 research papers in peer reviewed journals, authored 11 books and 36 book chapters.



Through her personal initiatives, signed strategic MoU with leading International and National institutes for fostering education and research. She has created state-of-the-art high end research facilities, provided educational-fellowship to 42 students and generated employment opportunities for more than 60 research-scholars.

She took a lead role in developing customized weather-based agro-advisory services for better farming decisions by the farmers. She has developed adaptation tool-box and technologies for reducing climate-change impacts for varied agro climatic zones. Developed Weather Based Crop Insurance Scheme (WBCIS) protocols and pilot tested in 14 districts of Tamil Nadu. Supported IMD-MoA-GoI through Crop yield forecast (FASAL) programme. Launched community restoration programme to reclaim agriculture in Tsunami-affected Nagapattinam. Imparted technical skill to >10,000 farmers, >500 scientists, >250 Irrigation-Engineers on climate-change adaptation. Upscaled climate-smart technologies in >6000 hectares in

Ponnaniyar-basin, Trichy and Kalingarayan-basin, Erode, Tamil Nadu.

She has been conferred with Fellowship of Agrometeorology award by Association of Agrometeorology. She has contributed technically for developing the Tamil Nadu-State Action Plan on Climate Change. She has presented Tamil Nadu-Drought policy, in High-Level-Meeting-on-National-Drought-Policy (HMNDP) at WMO, Geneva. She has served as co-chair for developing DST-Science Technology Innovation Policy-2020: TG02 - (Agriculture, water, food-security) and as a member in TG20 - (Sustainable technologies). She is serving as RAC member, CRIDA, Hyderabad and in IFGTB, Coimbatore. She is the UGC nominee for Quaid-E-Millath College, Chennai. Served as an International Expert in CAgM (Commission on Agricultural-Meteorology) and as a National Expert for DST, MoEF and SERB. Received 21 awards and recognitions including Science City's Best Women Scientist-award; DST-award for Women's development; Sakthi-Media-award; Harith-Kranti-Award (2020), etc.