



# IAUA NEWS

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## IAUA 14<sup>th</sup> National Symposium

The dynamic and continuing transformative landscape of agriculture needs to help build neo-generation human resources. This requires ingenious perspective in the agri-education sector to cater to an emerging new set of client farmers whose technology usage and literacy may be at par with the agri- professional.

Therefore, the onus to build appropriate skillsets in human resources streaming out of institutions of higher agricultural education will be on the education administrators and planners under the umbrella of NAREES. In consonance with new National Educational Policy (NEP)-2020, a formalized convergence platform of technology driven courses with social sciences and agri-business would be an ideal premise. Such competent and trained human resources, equipped with cognitive, technical and managerial skills can positively impact at societal level. This responsibility also entails to develop necessary infrastructure, linkages and training opportunities for teaching faculty and policy makers for a seamless deployment and integration of convergence platforms into existing agricultural education network. With this background, the 14<sup>th</sup> National Symposium of Indian Agricultural Universities Association (IAUA) was organized on “*Creating Enabling Ecosystem in Agricultural Universities for Agri tech innovations: Challenges and Opportunities*” by Professor Jayashankar Telangana State Agricultural University (PJTSAU), Rajendranagar, Hyderabad in collaboration with IAUA on June 9-10, 2022. The Symposium included:

- Inaugural Session,
- Session I- Potential for Emerging Technologies in the Agri-food Value Chain and Allied Sectors,
- Session II -Agriculture 4.0 (Smart Farming) Ready Manpower: Stakeholder Perspective,
- Session III -Gearing Up for the Emerging Technologies Driven Ecosystem – Challenges and Opportunities for Agricultural Universities, and
- Session IV - Converging Partnerships – Academia – Industry Incubators and Startup Journeys.

The Vice chancellors (20) from various State Agricultural, Horticultural and Veterinary Universities attended the symposium. Besides, representative of Vice Chancellors, senior officials from various organizations such as IIM, Ahmadabad; World Economic Forum, Navi Mumbai; ICAR-IARI, New Delhi; ICAR-NAARM, Hyderabad; ITE&T Department, Telangana; Coromandel International Ltd, Hyderabad; AgriWatch, New Delhi; ISB, Mohali; AG Biosystems Bio Ltd, Hyderabad; NABARD, Hyderabad; NIFTEM, Sonipat; Aruazone, Hyderabad; Criyagen Agri & Biotech Pvt. Ltd, Bengaluru also actively participated in the symposium. The recommendations of the symposium will be shared with the stakeholders.



## NEW TECHNOLOGIES

### A. CROP & HORTICULTURAL SCIENCES

The Agricultural Universities made earnest efforts to develop new technologies in Crop and Horticultural Sciences which included varieties/hybrids; machines & equipment; products & processing; and package of practices as given below:

#### VARIETIES/HYBRIDS

#### Dr Y. S. R. Horticultural University (Dr YSRHU), Venkataramannagudem

##### **Turmeric:** Lam Turmeric-1/LTS-2

- It is a high yielding variety suitable for Andhra Pradesh, Telangana and Tamil Nadu.
- A long duration variety (260 to 270 days) with an yield potential of 40-42 tonnes fresh rhizomes or 9.8 to 11.3 tonnes dry rhizomes /ha.
- The variety has dry recovery of 24% and curcumin content of 3-4%.



##### **Ajowan:** Lam Ajowan/LS 14-3, Lam Ajowan 2 (LTA-26/APHU Ajowan1)

- High yielding variety suitable for Andhra Pradesh.
- A long duration variety (145-175 days) with a yield potential of 6-13 q/ha under rainfed

condition and 12 – 15 q/ha under irrigated condition.

- Grains are slender, thin and oblong with attractive wheatish brown or dark brown colour.
- It has essential oil content of 3-4% which has intense flavor, aroma and pungency.
- It tolerates moisture stress and is highly suitable for late *Kharif*.



##### **Tamarind:** Thettu Amalika, Anantha Rudhira

- High yielder with regular bearing habit.
- Pods are big, broad, slightly curved with rounded ends, and somewhat compressed.
- Pulp is firm, soft which is thick and deep brown (fresh pulp) and blackish brown (dried and stored).
- Real value of pulp (RVP) is more with high pulp recovery (54 %).



#### Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri

##### **Wheat:** Phule Anupam (NIAW-3624):

- Yield - 30.56 q/ha.
- Exhibited resistant type of reaction to leaf and stem rust, aphids.





- Attractive long grains with grain appearance score of 8.2.
- Duration- 105 to 110 days.
- Recommended for cultivation in Maharashtra under timely sown restricted irrigation conditions.

### Sorghum: Phule Yashomati (RSV 1910)

- Grain yield: 9.2 q/ha
- Fodder yield: 42.6 q/ha
- Tolerance to shoot fly and stem borer.
- Moderately resistant to charcoal rot and foliar diseases (rust and leaf blight).
- Tolerance to drought (superior in physiological parameters associated with drought).
- Pearly white, medium bold and round grain.
- Early maturity (112-115 days).
- Recommended: rainfed, shallow soil, Western Maharashtra.



### Safflower

#### Phule Gold (SSF-15-65)

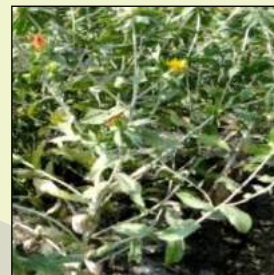
- Higher oil yield 575 kg/ha.
- Oil seed yield- 1,665 kg/ha.
- Higher oil content- 34.6 %.
- Average maturity -120-125 days.
- Moderately resistant to *Fusarium* wilt disease.
- The hull content in SSF-15-65 (41.9 %).
- Released at national level for safflower growing rainfed and irrigated areas of Maharashtra, Karnataka, Andhra Pradesh and Telangana.



#### Phule Kiran (SSF 16-02)

- Oil seed yield 2,058 kg/ha.

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



### Sesamum- Phule Purna (JLT 408-2)

- Yield- 705 kg/ha.
- Higher oil content (49.02 %)
- Bold (4g/1,000 seed weight) and white seeded.
- Lower in FFA (0.81%) and iodine value (106.8).
- Resistant to *Cercospora* leaf spot, *Alternaria* leaf spot, *Phyllody*, *Macrophomina* stem/root rot, Powdery mildew and moderately tolerant to pest leaf roller and capsule borer.
- Released for summer cultivation in Khandesh and adjoining areas of Vidarbha and Marathwada region.



### Urdbean- Phule Vasu (PU 0609-43)

- Seed yield- 859 kg/ha under rain fed conditions.
- Early maturing (73 days).
- Bold seeded (average 100 seed weight 4.87g).
- Tolerance to major diseases powdery mildew, mungbean yellow mosaic virus under field condition.



- Recommended for Maharashtra state.

### **Soybean- Phule Durva (KDS 992)**

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



### **Sugarcane- Phule 11082 (CoM 11082)**

- Higher cane yield Suru- 107 t/ ha and pre-seasonal- 118 t/ ha.
- Early maturing (duration 12 months).
- Sucrose content (19.87 %).
- Moderately resistant to red rot and wilt, resistant to smut and yellow leaf disease, least susceptible to ESB, INB, top shoot borer, moderately susceptible to mealy bugs.
- Recommended in Maharashtra for suru and pre-seasonal planting.



### **Guava- Phule Amrut (GKGS-P01-10):**

- Higher yield- 12.73 kg/ tree, 21.27 t/ ha (age of tree- 12 years).
- Medium fruit size (210.67 – 222.33 g).
- Red flesh (Lycopene content - 4.83 mg/ 100 g), fruit surface is glossy and smooth, greenish yellow skin



colour at edible maturity, pericarp thickness (1.03 cm), medium soft seed, TSS- 11.76 %, acidity 0.32%, ascorbic acid (206.41 mg/100g).

- Recommended for Maharashtra.

### **Tamarind- Phule Shravani (RHRT14)**

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



### **Punjab Agricultural University (PAU), Ludhiana**

#### **Pumpkin (PPH 1)**

Its fruits are small, round, mottled-green at immature stage and mottled-brown at mature stage. Fruit cavity is small and flesh is golden yellow. It is extra-early in maturity and gives 206 q/acre yield.



Area of adoption state(s): Punjab.

#### **Kala Amritsari Rootstock for Satluj Purple plum**

Plants grafted on this rootstock show higher success rate, scion growth and rooting percentage as compared to Kabul green gaze grafted plants.

Area of adoption state(s): Zone VI (Haryana, Delhi, Rajasthan, Gujarat)



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

### Rice

**Rajendranagar Vari 1 (IET 27077)** -- duration 135-140 days with yield potential of 7.0-8.0 t/ha; moderately resistant to blast, bacterial leaf blight, BPH, stem borer; tolerant to salinity; recommended for the states of Karnataka and Puducherry.



**Telangana Rice 5 (IET 28746)** -- duration 130-135 days with yield potential of 7.0-7.5 t/ha; moderately resistant to leaf blast, neck blast, brown spot, sheath rot and grain discoloration; recommended for Uttar Pradesh and Odisha.



**Telangana Rice 6 (KNM 7048)** -- duration 115-120 days; yield potential 8.0-8.5 t/ha; moderately resistant to leaf blast and sheath rot; recommended for Odisha, West Bengal, Chhattisgarh and Maharashtra.



**Telangana Rice 7 (KNM 6965)** -- duration 115-120 days; yield potential 7.5-8.0 t/ha; moderately resistant to leaf blast and grain

discoloration; recommended for Chhattisgarh and Maharashtra.



**Telangana Vari 8 (WGL 1487)** -- duration 125-130 days; medium-slender grain type; good HRR of 71.6 %; recommended for Andhra Pradesh and Telangana.



### Sesame

**Telangana Til 1 (JCS 3202)** -- duration 91-95 days; yield potential 8.2-9.8 q/ha; moderately resistant to *Macrophomina* stem and root rot, *Alternaria* leaf spot, *Cercospora* leaf spot and phyllody, recommended for Maharashtra, Karnataka and Telangana.



### Fodder Bajra

**Telangana Fodder Bajra 1 (TSFB 17-7)** duration 56-68 days; green fodder yield 40.5 t/ha; moderately resistant to leaf blast and downy mildew, resistant to leaf defoliators; recommended for Telangana, Tamil Nadu and Karnataka.



**Telangana Multicut Bajra (TSFB 18 -1)** -- duration 56-58 days; green fodder yield 86 t/ha; high tillering ability; recommended for Gujarat, Maharashtra and Madhya Pradesh.



**Rani Lakshmi Bai Central Agricultural University (RLBCAU), Jhansi**

#### **RLB Chana Kabuli 1 (RLBGK 1)**

The first variety of Kabuli Chana (Variety RLB Chana Kabuli 1) of RLBCAU, Jhansi was released and notified by the Central Sub-Committee on Crop Standards, Notification and Release of Varieties for Agricultural Crops (CVRC) for commercial cultivation under irrigated and timely-sown conditions of South Zone (SZ) comprising Andhra Pradesh, Telangana, Karnataka, Tamil Nadu and parts of Odisha.



RLBGK 1

**Sri Karan Narendra Agriculture University (SKNAU), Jobner**

#### **Pearl millet variety RHB 228**

This variety is released for cultivation in Rajasthan. It is dual purpose hybrid of pearl millet with high



Pearl millet variety RHB 228

grain and stover yield. The average grain yield is 2,757 kg/ha and stover yield is 46 q/ha. Maturity occurs in about 75 days. It produces compact panicles with medium size grains (seed weight of 9.3 g/1000 grains).

## **MACHINES and EQUIPMENTS**

### **MPKV, Rahuri**

#### **Farm implement**

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



#### **Salient features**

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

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

A drone was launched by Dr Narendra Singh Rathore, Vice Chancellor, MPUAT in the presence of Mrs Madhu Jain, Director IIFL Foundation, Mumbai and Dr Lakhan Poswal, Principal RNT Medical College





on 26 May 2022 at College of Technology and Engineering. This is the first drone amongst all state agricultural universities of Rajasthan. The drone costing Rs 30 lakh was sponsored by IIFL, Mumbai under CSR. The Vice Chancellor addressed the farmers and emphasized on using our digital innovations to modernize farming. Mrs Madhu Nirmal Jain, Director IIFL Foundation gave a brief account of the CSR activities of the foundation and assured perpetuating association with MPUAT. The Guest of Honour Dr Lakhan Poswal, Principal RNT Medical College, Udaipur, praised the IIFL and university for the service of the community.

## PRODUCTS and PROCESSING

**Dr Y. S. Parmar University of Horticulture and Forestry (Dr YSPUHF), Solan**

The university has developed technologies for following products:

- Technology for low calorie Apple Spread for commercial production.



- Technology for preparing herbal gual from waste flowers developed. The herbal gual is safe both for the skin as well as the environment.



Herbal gual from marigold, poppy, beetroot and rose

- The technology was developed for preparation of incense sticks (Agarbattis) from waste flower rose petals + marigold petals + cluster bean + jiggat powder.



Rose petals + marigold petals + cluster bean + jiggat powder  
= incense sticks

## PAU, Ludhiana

- Vodka production from potato (*Solanum tuberosum* L.) for commercialization was recommended in 290<sup>th</sup> REC meeting held on 05.05.2022.
- Fermentative preparation of mead from raw honey for commercialization was recommended in 290<sup>th</sup> REC meeting held on 05.05.2022.

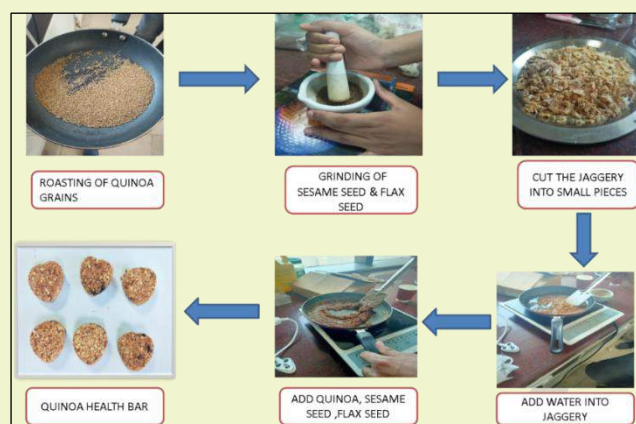
## RLBCAU, Jhansi

### Quinoa-sesame-flaxseed-fig health baws

These health baws are prepared from high-quality cereals, nuts and oilseeds and hence are rich in nutrients and carry several health benefits. Quinoa seeds were de-bittered by soaking overnight in water, followed by roasting, rubbing and winnowing to remove the



outer layer. Roasted quinoa seeds (100 g), roasted sesame seeds (49 g), flaxseed (28 g), and dehydrated fig (20 g) were added to jaggery syrup prepared from 100 ml of water and 250 g of jaggery syrup. This mixture was cooked until a semisolid mass was obtained and then poured into molds and kept for setting under cold conditions.



## PACKAGE OF PRACTICES

### PAU, Ludhiana

- To improve fruit size and quality and yield of guava, spray potassium nitrate @ 2.0 %.
- Application of SSP @ 1.5 kg/tree improves fruit yield and quality in ber crop.
- Propagation of standard chrysanthemums: The cuttings of standard chrysanthemums dipped in the solutions of IBA @ 400 ppm or NAA @ 200 ppm improved the rooting ability resulting in production of good quality planting material. The cuttings propagated in burnt rice husk media showed 95 % survival, one month after transplanting in pots.
- Post-harvest handling of annual chrysanthemum: Packing of annual chrysanthemum flowers in CFB boxes (3 ply) for storage and transportation can extend their post-harvest shelf life over their normal shelf life for two days without any loss in flower quality.

### PJTSAU, Hyderabad

#### Cotton - HDPS technique

The planting geometry adopted is 8-10 cm distance between plants in a row at row spacings ranging from 18 to 106 cm. The planting systems are referred as narrow row (NR) if the row-to-row spacing is less than 75 cm and ultra-narrow-row (UNR) if the spacing is less than 45 cm. Currently in India, depending on the local conditions, hybrid cotton is planted at row spacing ranging from 90-120 cm and plant spacing ranging from 30-90 cm resulting in 15,000 to 25,000 plants/ha. The University has developed operational guidelines and action plan for implementation of this flagship programme of HDPS Cotton cultivation in current *kharif* 2022 by organizing and participating in several meetings called for the purpose with State Agriculture Department and Private Seed Companies.



### Sardarkrushinagar Agricultural University (SDAU), Sardarkrushinagar

- The farmers of North Gujarat Agro-climatic Zone IV, growing wheat are recommended to replace DAP (60 kg  $P_2O_5$  /ha) with Udaipur Rock Phosphate (31%  $P_2O_5$ ) @ 198 kg/ha incubated for 30 days with FYM (593 kg) or vermicompost (593 kg) or compost (593 kg) applied as basal along with 120 kg nitrogen/ha (60 kg N/ha as basal and 60 kg N/ha at 21 DAS) for obtaining higher yield and net returns.
- The farmers of North Gujarat Agro-climatic Zone IV, adopting castor-clusterbean crop rotation under rainfed conditions are recommended to apply 30 kg N/ha through

chemical fertilizer and 30 kg N/ha through vermicompost (2,500 kg/ha) to castor and 10 kg N/ha through chemical fertilizer and 10 kg N/ha through vermicompost (830 kg/ha) to cluster bean and 40 kg P<sub>2</sub>O<sub>5</sub>/ha as basal and *Azotobacter* (Azo 8)+ PSB (each @ 5 ml/kg seed) as seed treatment to both the crops for obtaining higher castor equivalent yield and net returns.

- The farmers of Gujarat growing pomegranate are recommended to apply two foliar sprays of cyantraniliprole 10.26% OD, 0.003% (3.0 ml/10 l of water), first at appearance of the pest and second at 15 days after first spray for effective control of thrips on pomegranate.
- The farmers of Gujarat growing maize are recommended to apply two sprays of emamectin benzoate 5 SG @ 0.0031% (6.25 g/ 10 l water) or chlorantraniliprole 18.5 SC @ 0.0069% (3.75 ml /10 l water) first at initiation of pest and second at 15 days after the first spray for effective management of fall armyworm.
- The farmers of North Gujarat Agro-climatic Zone IV growing gladiolus are recommended to apply 75 % RDN (150 kg/ha) + *Azotobacter* and PSB @ 2.5 l/ha as corm soaking treatment along with recommended dose of phosphorus (200 kg/ha) and potash (200 kg/ha) for getting the maximum number of quality spikes, corms and net return.
- The farmers of Gujarat cultivating watermelon are recommended to spray 60 ppm gibberellic acid (60 mg/l of water) solution at 2 to 4 true leaf and flowering stage for getting gibberellic acid residue free higher fruit yield and net return.

### SKNAU, Jobner

#### Recommendations included in the POP of Zone IIIa of Rajasthan

- PE application of Atrazine @ 500 g a.i./ha followed by POE application of Tembotrione

42% SC @ 90 g a.i./ha at 3-4 leaf stage (15-20 DAS) of weeds significantly controlled the weed population and increased pearl millet productivity under rainfed condition with maximum net returns and B:C ratio.

- Seed inoculation with *Rhizobium*, PSB and SSB through liquid biofertilizer @ 5-10 ml/kg seed along with recommended doses of fertilizer recorded maximum pod yield of groundnut, net returns and B:C ratio.
- For the management of white grub and termite in standing pearl millet crop, drenching with Imidacloprid 17.8 SL @ 60 g a.i./per ha at 21 days after sowing is most effective.
- For the integrated management of yellow vein mosaic disease of okra, seed treatment with thiamethoxam 30% FS @ 4g/kg seed and sequential spray of pyriproxifen (5% EC) + fenpropathrin (15%EC) @ 1ml/l, spiromesifen 22.9% SC @ 1ml/l, buprofezin (25% sc) @ 2ml/l and neem oil @ 3ml/l at 10 days interval.
- To get highest net returns and B:C ratio in cluster bean, foliar spray of soluble NPK (19:19:19) @ 1% at flower initiation (45DAS) and pod formation stage (65DAS).
- For management of moongbean pests, seed treatment with carbendazim @ 2.0 g, thiamethoxam 35FS @ 5.0 g and *Rhizobium* 25 g/kg seed, grow one line of millet as trap crop around the field boundary, use *Helicoverpa armigera* pheromone trap @ 10 and yellow sticky trap 50/ha. Application of neem oil (1500 ppm) @ 1.5 ml/l at 30 days after sowing followed by application of Chlorantraniliprole 18.5 SC @ 0.20ml/l after 10 days of first spray.
- For management of sucking pests in cowpea, first spray of *Verticillium lecanii* @ 5 ml/l at pest appearance and second spray at flowering stage was found the most effective.
- For the integrated management of soil arthropod pests in groundnut crop apply neem cake @ 250 kg/ha in soil before sowing then treat the seeds with



imidacloprid 600FS @ 6.5 ml/kg seed, apply *Beauveria bassiana* @ 0.5 g/m<sup>2</sup> at 15 days after sowing followed by application of imidacloprid 17.8 SL @ 300 ml/ha at 21-25 days after sowing.

- Application of *Paecilomyces lilacinus* (*Purpureocillium lilacinum*) @ 10g/ m<sup>2</sup> area in nursery treatment best fungal bio-agent for the management of root-knot nematode. This bio-agent decreases the nematode population and improved tomato yield. Okra crop used as trap crop and okra uproot after 18 days from date of germination and transplanting of tomato at same place in main field.
- Plant spacing of 30 cm × 10 cm for bunch varieties is recommended. For spreading and semi spreading varieties plant spacing of 40-45 cm × 10 cm is recommended. The optimum seed rate of groundnut should be based on their 100 kernel weight as below:

Hundred kernel weight (g)	Recommended seed rate kg/ha
40-50	100-110
50-60	120-140
60-70	145-160
70-80	165-185
80-90	190-210

#### Recommendations included in the Package of Practices of Zone IIa of Rajasthan

- Apply foliar spray of Imazethapyr (10% SL) @ 80g a.i./ha in 500-600 l of water 25 days after sowing for control of weed population in green gram crop.
- Foliar spray of Salicylic Acid (SA) 200 ppm (200 mg/l) at 40-50 days crop growth stage under heat stress condition in guar crop.
- Soil application of ferrous sulphate (19%) @ 15 kg/ha in iron deficit soils or when zinc deficiency symptoms are visually seen in the standing crop applies foliar spray of zinc

sulphate (33%) @ 0.5 % in the pearl millet crop.

- Mix *Trichoderma harzianum* @ 5 to 10 kg per /ha with 50 to 100 kg FYM 15 days before sowing for the management of root rot in the cluster bean crop.
- Treat the seed with Tebuconazole @ 2 g/kg seed or *Trichoderma harzianum* @ 10 g/kg seed for the management of root rot in the cluster bean crop.
- For better management of white grub, seed treated with Imidacloprid 600 F.S. @ 6.5 ml/kg seed or clothianidin 50 WDG @ 2.0 g/kg seed before sowing of groundnut crop.
- For better management of white grub, seed treated with Clothianidin 50 WDG at 7.5 g/kg seed and imidacloprid 600 FS at 8.75 ml/kg seed before sowing of bajra crop.
- Plantation of *Hardwickia binata* tree species at 400 tree/ha density for receiving optimum growth and volume under rainfed condition.
- *Hardwickia binata* based Agri silviculture system at 5 m × 5 m spacing intercropping was taken only up to 15 years.
- Intercropping of cluster bean, pearl millet and cowpea *kharif* crops is beneficial in khejri (*Prosopis cineraria*) based Agri silviculture system in rainfed condition.
- Pearl millet hybrid varieties: RHB 223 and MPMH 21.

#### Sher-e-Kashmir University of Agricultural Sciences and Technology (SKUAST), Jammu

##### Management of Bakanae disease

- Seed treatment with carbendazim @0.2% followed by seedling dip treatment in 0.2% solution.
- Uprooting of paddy nursery in the standing water can reduce the incidence of the disease drastically as compared to uprooting of paddy nursery in upland (*vattar*) conditions.

- Treatment of seeds with *Trichoderma* @ 5 g/kg of seed.
- Agronomic practices, such as the use of organic fertilizers, crop rotation and summer ploughing practices can be helpful for managing the bakanae disease. Burning the infected plants and crop residues can reduce the infection source further.

## B. ANIMAL and FISHERIES SCIENCES

Various technologies developed by Animal and Fisheries Sciences universities are given below:

### Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana

#### Value Added Milk Products

College of Dairy Science and Technology (CoDST), GADVASU celebrated World Milk Day on 06 June 2022 under the aegis of ICAR funded Institutional Development Plan (IDP) being operational in the university. In the context of World milk day, a Food Festival was organized by the college. The main attractions of this festival, were newly launched dairy based food products like goat cheese, ricotta cheese spread, natural vanilla ice-cream and muskmelon ice cream. These products were prepared by the students of the college from the milk produced at GADVASU Dairy Farm.



### Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan (DUVASU), Mathura

#### Frozen goat semen

University started production of frozen goat semen doses of 9 indigenous goat breeds to support genetic upgradation programme throughout the country. With highest production

capacity in India, University is providing frozen semen dose to more than 12 states across country through government and



Training to A.I. workers on artificial Insemination in goat

non-government organization. The university is also imparting training on (i) artificial Insemination (AI) in goat, and (ii) scientific goat rearing, to Veterinary Officers, Farmers and AI workers in 12 states across the country. With an objective to outreach farmers at door step and provide technical assistance to them, university has signed memorandum of understanding with 5 Non-governmental organization working in goat sector.

### Kerala University of Fisheries and Ocean Studies (KUFOS), Kochi

#### Indigenous fish Olive barb breeding and seed production standardized

Researchers of KUFOS, Kochi successfully standardized indigenous fish *Systemus savona* (olive barb) breeding and seed production. The first batch of seeds (25,000)



*Systemus savona* (Olive Barb)



and brood fish stocks (300) produced under this project was ranched on 18 May 2022 at Edamalayar Dam Reservoir in Ernakulam District of Kerala. This work is being done under external funded project financed by The India High Range Mountain Landscape Project, under the aegis of the United Nations Development Programme (UNDP). The project aims to increase production of indigenous fish species both edible and ornamental fishes to improve the livelihood of tribes' people.

The project is expected to enhance job opportunities for them said, Dr Riji John, Vice Chancellor, KUFOS.

### **Maharashtra Animal and Fishery Sciences University (MAFSU), Nagpur**

#### **In Vitro Produced Embryo Transferred Cow Calves**

Department of Animal Reproduction, Gynaecology and Obstetrics, Nagpur Veterinary

College, Nagpur is implementing Rashtriya Gokul Mission, New Delhi funded project on

Strengthening of ETT/IVF centre, at Maharashtra

Animal and Fishery Sciences University (MAFSU) Nagpur.

A well-equipped sophisticated *in vitro* fertilization laboratory was established at the university under this project. During the year 2022 till date, 09 calves were born successfully (06 calves at Cattle Breeding Farm of Nagpur Veterinary College, Nagpur and 03 calves at Bull Mother Farm, Wadsa, Distt. Gadchiroli). Apart from this, 06 cows were confirmed pregnant following *in vitro* produced embryo transfer.



Shri Sunil Kedar , Cabinet Minister of Animal Husbandry, Dairy Development, Sports & Youth Welfare, M.S. at the College Farm

## **TEACHING**

### **Acharya N. G. Ranga Agricultural University (ANGRAU), Guntur**

The following important activities were undertaken S. V. Agricultural college of ANGRAU during April-June:

- Three-day educational tours to NCBS, Bengaluru and IARI, RS, Wellington for PG and Ph.D. students of S.V. Agricultural College, Tirupati were organized in two batches during 19-21 and 25-27 April 2022.



ANGRAU Students at NCBS Bengaluru



ANGRAU Students at IARI, Wellington, Ooty

### **Dr Rajendra Prasad Central Agricultural University (Dr RPCAU), Pusa**

#### **Winter School**

The Centre of Advanced studies on climate Change organized a winter school on Climate Resilient Agriculture for Sustainable Production from March 28 to April 17, 2022. The program attracted participation of 23

scientists from different reputed organizations of the country.

Simultaneously, another capacity building programme on Enhancing Crop Production through Climate Smart Technologies of 21 days' duration was also organized by the Centre with participation of 55 scientific personnel and project staff.

### Dr YSRHU, Venkataramannagudem

- Dr K. Swarajya Lakshmi, professor Horticulture, Dr YSRHU-CoH, Anantharajupeta along with PG Students Ms S. Pavani and G. Naveen Gopaladas, attended a 10-day training programme on Food processing – Entrepreneurship development programme from 10 to 21 May 2022.
- Capacity building training programme conducted at Dr YSRHU-College of Horticulture (CoH), Venkataramannagudem on 7 July 2022 and released the pamphlets and books on Production technology of Cashew nut, Dry flower technology and apiculture.
- Dr Y. Sireesha, Dr YSRHU- CoH, Anantharajupeta, participated and received best paper in the post session during the National webinar on Sustainable Interventions towards Resource Conservation and Natural Farming, organized by ANRCM, Lucknow along with AAU, Jorhat during 22 – 23 April 2022 to mark the Earth Day 2022.
- All the faculty of Dr YSRHU-CoH, Anantharajupeta, participated in the special guest lecture on Improving the visibility indicators and research productivity of state Agricultural / Horticultural universities, on 24 June 2022.
- A guest lecture on Hydroponics and vertical gardening, was delivered by Dr T. Arumugam, Dean (Horticulture), Department of Fruit Science, HC and RI, Periyakulam, Tamil Nadu on 09-05-2022 to

all PG and PhD students of Dr YSRHU-CoH, Anantharajupeta.

### GADVASU, Ludhiana

#### Short Course on Bioinformatics

College of Animal Biotechnology, GADVASU launched the six-week short course on Bioinformatics in hybrid mode on 19 May 2022. The course aims are to develop skills in bio-computational analysis and the core concept of bioinformatics, to train students for computer coding program languages, and development of critical thinking in solving the problems of molecular biology via bio-computational approach.



#### Climate Resilient Animal Shed and new building of College of Fisheries

S. Kuldeep Singh Dhaliwal, Cabinet Minister, Animal Husbandry, Fisheries and Dairy Development, Rural Development & Panchayats and NRI Affairs, Punjab Government, visited GADVASU and inaugurated the Climate Resilient Animal Shed for 150 animals and College of Fisheries at the University. During his visit to the University, he opined that





livelihood of rural people can be improved through livestock occupation. He advised the farmers to take advantage of institutions like GADVASU for the betterment and advancement of livestock profession. Dr Inderjeet Singh, Vice Chancellor of the University said that livestock occupation is growing at an annual rate of 8 % whereas in agriculture it is 3.4 % growth.

The Climate Resilient Animal Shed developed at the University with the financial assistance of the Ministry of Environment, Forest and Climate Change, Government of India, and contributed by NABARD and Punjab State Council of Science and Technology provides a very comfortable habitat for animals in which indoor temperature can be reduced by 5 to 7 degrees with fans, sprinklers and other techniques. Such sheds also require less labour and animals give more production in a comfortable conducive environment.

### **Kamdhenu University (KU), Gandhinagar**

#### **Technical session for students on "Transition Cow Management"**

A technical session on Transition Cow Management for UG and PG budding veterinary students was organized on 26 May 2022 at seminar hall by the Department of Veterinary Medicine, COVSAH, KU, Junagadh, in collaboration with Virbac Animal Health. A total of 85 students (UG & PG) of the college and internees from Anand Veterinary College participated and benefited from the session.



Technical session on 'Transition cow management'

### **Veterinary College, Junagadh Library in developing mode**

The College of Veterinary Science & AH, Junagadh Library, has about 500 active members including students, faculty members and staffs.

Around 5,000 books, many back volumes of journals, periodicals,



theses, seminar manuscript, CDs, etc. are the information assets of the library. In the last financial year 611 books of 71 different titles costing Rs 341,315.00 were added in library. Moreover, 8 scientific journals of different disciplines of veterinary and animals sciences were also subscribed for year 2022 at the cost of Rs 28,615.00.

### **Maharana Pratap Horticultural University (MHU), Karnal**

The following degree programmes are underway at the university:

- B.Sc. (Hons.) Horticulture.
- M.Sc. Horticulture with specialization in Fruit Science, Vegetable Science, and Floriculture and Landscape Architecture.
- Ph.D. Fruit Science, Vegetable Science, and Floriculture and Landscape Architecture.

### **MPUAT, Udaipur**

- The new building of the Departments of Dairy & Food Chemistry and Dairy & Food Microbiology at College of Dairy and Food Technology was inaugurated on 7 April 2022 by Dr N. S. Rathore, Vice Chancellor. This new building has six labs, one smart classroom and eight



faculty and office rooms. Recently ISO 9001: 2015 certificate was also obtained for excellent lab facilities for Microbiological Analysis of Dairy & Food Products.

- The Educational Tour of the Under-Graduate students of Rajasthan College of Agriculture was undertaken from 18 to 25 April 2022 in which 45 students visited various



educational and research institutions in Madhya Pradesh and Maharashtra.

- Department of Textiles and Apparel Designing, College of Community and Applied Sciences conducted IDP-NAHEP sponsored Educational Tour of UG students to Gujarat from 23 April to 27 April 2022. The students visited many industries like Amul dairy, Anand, Amul



Chocolate Factory, Anand, Entrepreneurship Development Institute, Ahemdabad. They also visited reputed institutes like NIFT, Ahemdabaad and MS University Vadodara. The tour included 35 UG students and 04 staff members namely Dr Rupal Babel, Dr Sonu Mehta, Ujjwal Bhatnagar and Sunil Bhand.

- To enhance skills in food processing, an exposure visit of 44 B.Tech., III year (Dairy Technology) students of College of Dairy and Food Technology to National Dairy Research Institute, Karnal commenced on 21 April 2022.
- To enhance skills in food processing, an exposure visit of 34 B.Tech., III year (Food Technology) students of College of Dairy and Food Technology to National Institute of Food Technology Entrepreneurship and Management, Kundli, Sonipat commenced on 21 April 2022.

- At College of Technology and Engineering, summer training seats have been received for III year students from following mines to help placement:

- 17 seats at U/G mines of Hindustan Zinc Ltd (after a Gap of 10 years) - Rampura Agucha (HZL) - 04, Zawar Mines (HZL) -04, Rajpura Dariba (HZL) - 03, Sindesar Khurd (HZL) -03, Kayad Mines (HZL) -03
- 06 seats at U/G Mines of Hindustan Copper Ltd
- 03 seats each at Open cast mines of Wonder Cement, Shree Cement, Ambuja Darlaghat, Ultratech Kotputli, Wolkem India, JayKay Lakshmi Sirohi, Vikram Cement, Aditya Cement, Udaipur Cement.
- Important Training seats are arranged for II year students from Following Mines:
- 06 seats each at U/G coal mines of Western Coalfields, Singreni Coalliery Co., South Eastern Coalfields, Mahanadi Coalfields.

### PAU, Ludhiana

- Department of Home Science Extension Education and Communication Management organized online guest lecture on the topic Demonstration method: Teaching a skill through experiential Learning method on 11 April 2022. Dr Seema Tyagi, Assistant Professor, DPME, SKRAU, Bikaner delivered the interactive lecture to UG and PG students of the college.
- Department of Home Science Extension Education and Communication Management organized online guest lecture on the topic Project Management Techniques on 22 April 2022. Dr Seema Rani, Professor, CCSHAU, Hisar was the guest speaker. UG elective and PG students of the department attended the webinar.

## PJTSAU, Hyderabad

### RAWEP

Under Rural Agricultural Work Experience Programme (RAWEP), UG students of Agriculture conducted demonstrations like spray fluid preparation, neem leaf extracts a *panchagavya* preparation, training programme and group discussions on need-based location specific problems in the villages.

### Experiential Learning Programmes

UG students of Agriculture were placed in various ELP units viz., commercial horticulture, vermicomposting (waste management), Poly tunnel – vegetable production, soil and water analysis and paddy seed production for hands on training.

### Student Radio Programme

Under *Chenukaburlu*, ten programmes were produced by the students of constituent colleges of the University. These were broadcast through All India Radio (Hyderabad-A) on every Wednesday (1.30 to 2.00 pm) in the name of *Gruha Vignana Tarangini / Vyavasaya Vignana Tarangini*.

### Design Thinking Idea Sprout 1.0

Pitch Deck of Certificate Programme on Design Thinking Idea Sprout 1.0 programme for PG students was organized on 21 May 2022 to select two (2) winners for best business / research Idea.

### Workshop on Genome editing

The University deputed more than 60 PG students for the Genome editing for Crop Improvement: Potential and Policy, workshop organized by Biotech Consortium India Limited (BCIL) New Delhi in collaboration with PJTSAU on 6 May 2022.

### Guest Lecture

UG, PG and Ph.D. students of College of Agriculture, Rajendranagar attended the

lecture on Climate Smart Agriculture delivered by Dr K. Chandra Reddy, Dean and Director Research, College of Agriculture, Human and Natural Sciences, Tennessee State University, USA on 17 May 2022.

## SKNAU, Jobner

- **Digi-Locker:** The National Academic Depository (NAD) is a 24 × 7 online repository of all academic awards such as certificates, diplomas, degrees, mark sheets, etc. lodged by Academic Institutions in a digital format. Digi Locker NAD not only allows easy access to and retrieval of academic awards but also validates and guarantees their authenticity and safe storage. SKNAU was registered as a service provider and 891 degree certificates of UG, PG and Ph.D. for the session 2021 were uploaded on Digi-locker portal.
- Setup of 2 video conference rooms under NAHEP at SKNCOA, Jobner.

## SKUAST, Jammu

- New ICAR PG syllabus (BSMA recommendations) was adopted in Faculty of Veterinary Sciences of SKUAST-Jammu.
- Adoption of BSMA regulations was made for M.Sc. and Ph.D. programmes from the Academic Session for 2021-22 in the University.
- New Smart Class rooms were started under IDP Project for better delivering of the lectures to the students.
- Under Student READY RAWEP & AIA Programme, 106 students were attached in the village Kulian, Tehsil Suchetgarh, District Jammu from April 2022 to June 2022.
- Three new faculties of Agricultural Engineering, Horticulture and Forestry and Dairy Technology are being established with a sanctioned strength of 30 number of



teaching posts and 39 number of non-teaching posts in the first phase.

- Nine New Courses were initiated in various degree programmes namely B.Sc. (Hons.) Horticulture, B.Tech. (Agricultural Engineering), B.Tech. (Dairy Technology), M.Sc. Fisheries (Farm Resource Management), M.Sc. (Ag) Organic Farming, M.Sc. Seed Science and Technology, Ph.D. Agri Business Management, Ph.D. Floriculture and Landscaping were started in the University. Also, Four New Divisions namely Division of Vegetable Sciences, Division of Seed Science and Technology, Division of Fisheries and Division of Floriculture were created in the University.

## EVENTS AND ACTIVITIES

### Anand Agricultural University (AAU), Anand

#### Workshop

Workshop for Bankers on New Vistas of Agriculture & MSME lending under Priority Sector, was organized by Reserve bank of India in collaboration with Institute of Rural Management (IRMA) & Anand Agricultural University (AAU) on 16 June 2022 at AAU, Anand. The

workshop was addressed by Guest of Honour Dr K. B. Kathiria, Vice

Chancellor AAU, Anand,

the chief guest Dr Umakant Das, Director IRMA, Anand and Shri Rajesh Kumar, Regional Director, RBI, Ahmedabad. About 50 senior bank officials attended the workshop and interacted with AAU incubated selected startups and visited Incubation Centre of College of FPTBE (AAU, Anand) and Vidya Dairy (Anand).



Vice Chancellor, AAU being felicitated by Shri Rajesh Kumar, Regional Director, RBI

#### Trainings

- As a part of Azadi ka Amrut Mahotsav and Platinum Jubilee celebration of B. A. College of Agriculture, a training programme on Organic Farming was held during 4 to 8 July 2022 under the guidance of



Scientists of Department of Agronomy with participants

Vice Chancellor Dr K. B. Kathiria at Department of Agronomy, BACA, AAU, Anand. Total 24 farmers across the Gujarat state participated in this training programme. The programme covered various aspects viz. management for nutrients, pest, agronomical practices, cow-based farming management and trade etc. by different subjects' experts from the University.

- A special training organized for 25 students of Natubhai V. Patel College of Pure and Applied science (NVPAAS), CVM University, Vallabhvidhyanagar. The curriculum was designed to help them learn a part of B.Sc. (Food Science and Quality Control) course.



Students during Training

#### Farmers' Fairs

- Kisan Mela was organized by Krishi Vigyan Kendra (KVK), Arnej, AAU, in collaboration with ATMA, Ahmedabad and District Agriculture Department, Ahmedabad at KVK, Arnej on 26 April 2022 under the campaign - Kisan



Scientists treating the animals

*Bhagidari Prathamikta Hamari*. Former Cabinet Education Minister Shri Bhupendra Singh ji Chudasama presided over the function and urged the farmers to adopt natural farming system.

An Animal health camp was also organized in collaboration with State Animal Husbandry Department at Arnej Village of Dholka Taluka. 310 animals were treated for various diseases, and 194 animals were vaccinated against FMD and PPR disease.

- A 'Kisan Mela' was organized on 26 April 2022 by KVK, Dahod, AAU under the *Kisan Bhagidari Prathamikta Hamari* campaign as a part of the celebration of *Azadi ka Amrit Mahotsav*, at Muvaliya Campus, Dahod. The mela also included exhibition stalls of natural farming farm inputs and farm produce. The programme schedule included an online nationwide live programme wherein Union Agricultural Minister, Shri Narendra Singh Tomar, addressed the attending farmers. Further, Project Director, ATMA, Dahod, Dr D. L. Patel and District Agriculture Officer, Shri P. R. Dave informed the farmers about the different existing state government schemes regarding natural farming.



Glimpse of the Kisan Mela

### Webinar/Seminar

- A Webinar Series on Agripreneurship Essentials was organized by the Agri. and Food Business Incubator from 13-17 June 2022, which included talks on How to Become an Agrifood Entrepreneur and



Faculty interacting with Entrepreneurship aspirants

available market opportunities by Dr Dinesh Jain, Entrepreneurship Development Institute (EDI), Ahmedabad; and lectures on Design Thinking and How to build a Minimum Viable Product by Dr Kavita Saxena, Visiting Faculty at EDI; Utilizing Lean Canvas to Put Ideas into Perspective and Achieve Product-Market-Fit by Ms Nidhi Mehta, Founder Self Achievers. Total 100+ entrepreneurs and start-ups from agriculture and allied sectors attended the webinar series.

- A Webinar Series on Strategy for Startups was organized by the Agri. & Food Business Incubator from 18-21 June 2022. During which Dr Santosh Sharma, Founder BookMyJet.com delivered a talk on How to Build a Brand, and Position it for success, Dr Dinesh Jain, Entrepreneurship Development Institute (EDI) articulated on Sales and Distribution Strategy for Agrifood Startups, Dr Snehal Desai delivered a talk on Go-to Market Strategy and Partnerships for Agri-food Startups, Dr Nakul Parameswar conducted an interactive workshop on Competitive Strategy & alliances for Startups. Total 125+ budding entrepreneurs and early-stage start-ups from agriculture and allied sectors registered for the webinar series.

### Certificate course

Basic Baking Technology, a 20-week certificate course was conducted from 20 December 2021 to 10 June 2022 at School of Baking, Polytechnic in Food Science and Home Economics, AAU in which



Participants performing Practical

25 trainees have completed the course successfully. Students learned the processing of about 80 bakery products practically as well



as theoretically. They were taught about economic calculations, establishment of bakery unit, production and marketing and other necessary information to establish their bakery industry after completion of the course. The course was conducted by Dr Devesh Patel, Head, School of Baking and Dr Keshav Kamaliya, Principal, Polytechnic in Food Science and Home Economics under guidance of Director of Extension Education, Dr H. B. Patel.

### World Environment Day



Plantation and Cleanliness drive on world environment day

World Environment day was celebrated at Vaso campus on 5 June 2022 to promote awareness regarding environment among students under the NSS programme. All students of College of Agriculture and Polytechnic in Agriculture participated in the programme by planting tree and cleaning the campus.

### World Yoga Day



Staff members and students performing Yoga

College of Agriculture and Polytechnic in Agriculture celebrated World Yoga Day on 21 June 2022 under NSS Programme. Staff members and students performed yoga watching common yoga protocol video of Ayush Mantralaya. At the end Principal, Dr V. P. Ramani explained importance of Yoga in our

daily life and motivated all to practice yoga every day.

### ANGRAU, Guntur

#### 52nd and 53rd Combined Convocation

The 52nd and 53rd combined convocation ceremony was held at Mahati Auditorium,

College of Tirupati on 8 June 2022.

The event was graced by the Governor, Andhra Pradesh as Chief Guest Sri Biswabhusan Harichandan

and delivered the convocation address. Sri K. Govardhana Reddy, Minister for Agriculture and Cooperation, Marketing and Food Processing, Government of Andhra Pradesh graced the occasion as Special Guest. Dr A. Vishnuvardhan Reddy, Vice Chancellor, ANGRAU read out the progress report of ANGRAU. The combined convocation ceremony presented degrees to the 371 candidates who passed in the academic years 2018, 2019 and 2020. A total of 48 candidates opted for obtaining their degrees in-absentia. As many as 74 Ph. D. candidates, 233 Post Graduates in agriculture; 15 Ph.D. candidates, 29 Post Graduates in agricultural engineering; 20 Post Graduates in community science received their certificates in-person.

Dr A. Satyanarayana, Ex-Director of Extension, ANGRAU received Dr M.V. Reddy Memorial Award and Dr Ashok Kumar Singh, Director, ICAR- Indian Agricultural Research Institute (IARI) received Prof. Ramchandra Rao Memorial





Award for their contributions in the field of Agriculture.

### Kisan Melas

Kisan Melas on *Kisan Bhagidari Prathamika Hamari* Campaign as a part of Azadi ka Amrit Mahotsav were organized, on 26.04.2022 at following places

- ANGRAU-Agri Business Incubator in collaboration with RASS-KVK, Tirupati
- KVK, Utukur, Kadapa
- KVK, Garikapadu
- KVK, Ghantasala
- KVK, Darsi.

### Extension Advisory Council Meetings

The Zonal Research and Extension Advisory Council Meetings (both *Kharif* and *Rabi*) for the year 2022 were organized during April in six Agro-climatic zones of Andhra Pradesh, to discuss and finalize Research and Extension activities to be taken up in the respective Zones.

- Krishna Zone – RARS, Lam, Guntur – 11.04.2022 and 12.04.2022
- Southern Zone – ARS, Utukur, YSR Kadapa District – 18.04.2022 and 19.04.2022
- Scarce Rainfall Zone – RARS, Nandyal – 20.04.2022 and 21.04.2022
- North Coastal Zone – ARS, Vizianagaram – 25.04.2022 and 26.04.2022
- High Altitude Tribal Zone – RARS, Chintapalli – 27.04.2022 and 28.04.2022
- Godavari Zone – RARS, Maruteru – 29.04.2022 and 30.04.2022.

### Trainings/Winter school/short courses

Following trainings were conducted at various institutes of ANGRAU.

- Skill development training programme on Agro based entrepreneurship development at NI-MSME, Hyderabad during 16 May- 11 June 2022. A total of 13 students attended the programme. (Agricultural College, Bapatla).
- Skill development training programme on “Precision farming and water management”

was organized at WALAMTARI, Hyderabad under IDP, NAHEP during 18 May- 7 June 2022. A total of 14 students attended the programme from Agricultural College, Bapatla.

- Two months/60 hr internship/incubation programme for incubates of 4th Cohort was launched from 29 June 2022 to 06 August 2022 under RKVY-RAFTAAR Agri Business Incubation programme by RARS, Tirupati.

## Birsa Agricultural University (BAU), Ranchi

### Training on Artificial Insemination

Faculty of Veterinary Science & Animal Husbandry of Birsa Agricultural University, Ranchi organized 30-day training programme on Artificial Insemination (AI) for the establishment of Multitasking Artificial Insemination Technician for Rural India (MAITREE) at Panchayat level under National Gokul Mission Yojna



AI Training under Gokul Mission

in May-June 2022. During closing ceremony, Chief Guest Director Research, Dr S.K. Pal distributed certificates to the trainees and talked about promoting the development as an efficient artificial insemination worker at the village level. Special guest Dean Veterinary Dr Sushil Prasad highlighted the importance of subjects related to animals in class period during training programme. Course Coordinator Dr AK Pandey told that out of 29 participants of the training 7 were graduates and 22 Inter pass rural youths and girls.

### Ethical Use of Laboratory Animals in Biomedical Research

Faculty of Veterinary Science and Animal Husbandry of Birsa Agricultural University,

Ranchi organized workshop and practical training on ethical use of laboratory animals in biomedical research on 15-17 June 2022. The programme was inaugurated by BAU, Vice Chancellor Dr Onkar Nath Singh as chief guest. In view of the rapid technological development in every field of science globally, he stressed upon the scientists and researchers associated with veterinary science to be updated in technical knowledge and skills.

As Specialist Dr Shakti Prasad, Associate Professor, Central University, South Bihar, told about the uses of laboratory animals in biomedical research. He also briefed about the guidelines related to the uses of laboratory animals prescribed by the Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA). 55 P.G. and Ph.D. students of Ranchi Veterinary College, RIMS, BIT Mesra, and Central University, South Bihar are participating in the programme.



Workshop on Ethical Use of Lab. Animal

#### 42<sup>nd</sup> Kharif Research Council meeting

Directorate of Research, Birsa Agricultural University, Ranchi organized 42<sup>nd</sup> Kharif Research Council meeting on 7-8 June 2022 under the chairmanship of Vice Chancellor Dr Onkar Nath Singh. In presidential address, Vice Chancellor Dr Onkar Nath Singh talked about the qualitative improvement in technology through research



Dignitaries during 42<sup>nd</sup> Kharif Research Council Meeting

programmes in the last two years. He informed that scientists will have to be constantly engaged in the development of improved crop species in the interest of state farmers. On the occasion books viz., *Research Highlights-2022*, *Suitable Machines for food Processing* and *Advanced Cultivation of Paddy by Aerobic Method* were released.

Special guest Agriculture Secretary, Government of Jharkhand, Sri Abu Bakar Siddiqui P said that the agricultural development of the state got a big boost under the technical guidance of the university. Scientists need to be always ready to solve the problems raised by farmers through research and development of low cost agricultural technology which is easily adoptable by farmers.

Besides, ICAR-IIAB Director, Dr A. Patnaik; Former Director Research, BAU, Ranchi; Dr A. K. Ishwar; Director Extension, BAU, Ranchi, Dr Jagarnath Oraon; Director Research, BAU, Ranchi, Dr S. K. Pal also put forth their views in the programme.

#### BAU celebrates 42<sup>nd</sup> Foundation Day

The 42<sup>nd</sup> Foundation Day was celebrated by Birsa Agricultural University, Ranchi on 26 June 2022. The function was inaugurated by Governor-cum-Chancellor, Jharkhand Shri Ramesh Bais. On the occasion, he described Birsa Agricultural University as a pilgrimage site for farmers, and talked about its identity being linked to the development and capacity of farmers. He released the *Annual Report 2021-22*, a book entitled *Panchayatnama of Farmers* and *Pathari Krishi Patrika* magazine. He also distributed appointment letters to the newly appointed 10 Assistant Professor. He distributed improved variety seeds of 9 crops, and 15 kg improved paddy seeds to the farmers of the state.

On the occasion, Vice Chancellor Dr Onkar Nath Singh highlighted the important achievements of agricultural education, research and extension of the university in the year 2021-22. Former Vice Chancellor, BAU Dr



M. P. Pandey praised the achievements of the University.

Welcome address was given by Dean Agriculture Dr S.K. Pal and the vote of thanks by Director Extension Dr Jagarnath Oraon.



Hon'ble Governor, Jharkhand releasing BAU Annual Report 2021-22 during 42nd Foundation Day

## Central Agricultural University (CAU), Imphal

### Natural Farming: Syllabus and Curricula

A meeting for Developing Syllabus and Curricula on Natural Farming for UG and PG levels held during 24 to 25 June 2022 at CAU, Imphal under the Chairmanship of Dr Anupam Mishra, Vice Chancellor, CAU, Imphal. Dr R.C. Aggarwal, DDG (Education), ICAR, New Delhi; Dr P.S. Pandey, ADG(EQR), ICAR, New Delhi; Dr S.K. Sankhyan, Principal Scientist (EQR), ICAR, New Delhi; Shri Dinesh Kulkarni, All India Organizing Secretary, Bhartiya Kisan Sangh; Shri Atul Jain, General Secretary, Deen Dayal Research Institute, New Delhi; Shri Gajendra Singh Tomar, National Secretary, ABVP and other 32 dignitaries from different parts of the country and different Colleges of this University took part. A tentative draft on different components of the Natural Farming was prepared.



## Dr RPCAU, Pusa

### 12<sup>th</sup> Research Council Meeting

The 12<sup>th</sup> Research Council Meeting of Dr Rajendra Prasad Central Agricultural University was organized during 2-5 May 2022. During the meeting progress of various research projects including 11 externally funded projects and 17 ICAR-AICRP projects were reviewed. On this occasion, one variety of Turmeric was recommended and three technologies were released by the council.

### Azadi Ka Amrit Mahotsav

The Azadi Ka Amrit Mahotsav was celebrated by the University on 26/4/2022 by organizing Kisan Mela on the theme Kisan Bhagidari Prathmikta Hamari at different KVKs of the University with participation of a large number of farmers.

## Dr YSPUHF, Solan

### Kisan Melas

- Krishi Vigyan Kendra (KVK) Sharbo organized Kisan Mela at Nako on 26.04.2022 in which 200 orchardists of adjoining villages participated.



- Tabo organized Kisan Mela on Kisan Bhagidari Prathmikta Hamari on 26.04.2022 at KVK L&S-II, Tabo in which 239 farmers/farm women participated.
- District level Kisan Mela was organized on the occasion of inauguration of Kisan Bhagidari Prathmikta Hamari under Azadi ka Amrit Mahotsav campaign at KVK, Chamba on 26.04.2022 with 203 participants.



**Conference and Workshop**

- Biennial National KVK Conference 2022 was organized on 1-2 June 2022 in which 731 KVKs of the country participated. The Governor of Himachal Pradesh- Chancellor of this university Sh Rajendra Vishwanath Arlekar; Governor of Gujarat; Acharya Devvrat; Sh Narendra Singh Tomar, Minister of Agriculture and Farmers Welfare, GoI; Sh Jai Ram Thakur, Chief Minister of Himachal Pradesh; Shri Purshottam Rupala, Minister of Fisheries, Animal Husbandry and Dairying, GOI; Shri Kailash Choudhary, Union Minister of State, Ministry of Agriculture and Farmers Welfare graced the occasion. DG, ICAR. Dr Trilochan Mohapatra; DDGs; ADGs; Directors of all the Agricultural Technology Application Research Institutes and Vice Chancellors of various state agricultural universities also participated in the conference. Prof. Rajeshwar Singh Chandel, Vice Chancellor, Dr YSPUHF welcomed the dignitaries. Exhibition were also put up on this occasion highlighting the activities of participating KVKs and university.
- 30<sup>th</sup> annual review meeting of All India Network Project on Pesticide Residues was organized in the university on 20-21 June 2022. DDG, Crop Science Dr T. R. Sharma and ADG, Plant Protection and Biosafety, Dr S. C. Dubey attended the meeting online.

**Trainings**

- Seven (7)-days Skill Development Training Programme on Production and Processing of M&AP Sponsored by Himachal Pradesh Kaushal Vikas Nigam (HPKVN) was organized from 4 to 10 June 2022.
- Seventy-Two (72)-hours Vocational training programme on Skill Development in commercial nursery production of subtropical fruit crops for 25 students was organized under IDP project from 13.05.2022 to 23.06.2022

- College of Horticulture and Forestry, Neri, Hamirpur in collaboration with HPKVN, Shimla organized two 7-day trainings on Skill Development in Food Processing & Value Addition from 17.05.2022 to 23.05.2022 and 25.05.2022 to 31.05.2022.
- Three (3)-day training on Identification and Integrated Management of Phytophagous Mites of Temperate Fruits for 20 farmers of Shimla district was organized from 06-08 June 2022 at RHR&TS, Mashobra.

**Dr YSRHU, Venkataramannagudem****Kisan Mela/Kisan Goshthi**

- On 26 April 2022, Dr YSRHU - KVK, Venkataramannagudem conducted *Kisan Bhagidari Prathamika Hamari* Campaign on Importance of Organic Cultivation in Agriculture and Horticultural Crops.
- On 26 April 2022, Dr YSRHU - KVK, Periyavaram organized National campaign and Kisan Mela on *Bharatiya Prakruthik Krishi Padhath*.
- On 26 April 2022, Dr YSRHU - KVK, Vonipenta organized an event on *Kisan Bhagidari Prathamika Hamari*.
- On 3 May 2022, Dr YSRHU - KVK, Vonipenta organized Kisan Goshthi on Management Practices and Value Addition in Horticultural crops.
- On 31 May 2022, all KVKs under Dr YSRHU have conducted Farmers scientist Interaction meet.
- On 3 June 2022, Dr YSRHU - KVK, Periyavaram conducted Kisan Goshthi and Group discussion on Nutri smart Horticulture.

**Trainings**

- Two days in-house Hands on training programme for nursery owners from various districts of Andhra Pradesh was organized at Dr YSRHU - Citrus Research Station, Tirupati from 16 to 17 May 2022.
- Dr YSRHU-KVK, Venkataramannagudem

conducted two-day skill training program on Value addition in cashew apple from 20-04-2022 to 21-04-2022 under Tribal Sub plan (TSP).

- On 21 June 2022, Dr YSRHU-KVK, Venkataramannagudem conducted training programme to farmers on Efficient and Balanced use of fertilizers (including Nano fertilizers).

### Webinars

- Dr YSRHU Global Connect Series in collaboration with University of Wisconsin, Madison, USA organized webinar on Cucumber Breeding-Genetics and genomics resources, development of infrastructure for cucumber molecular breeding, cucumber domestication /evolution, use of crop wild relatives on 21 April 2022.
- Dr YSRHU conducted online state-level webinar on JAL SHAKTI ABHIYAAN with theme CATCH THE RAIN – 2022 on 23 April 2022.

### EXTENSION STRATEGIES AND DIGITAL EXTENSION

The university is concentrating on transfer of technologies (extension activities) through Krishi Vigyan Kendras (KVKs), Horticultural Research Stations (HRSs), Colleges of Horticulture and Horticultural Polytechnics for the benefit of farmers, rural youth and women directly and through Rythu Bharosa Kendrams (RBKs), District Resource Centres (DRCs) and Department of Horticulture, Government of Andhra Pradesh. Extension is a continuous activity and requires time bound new approaches to Reach the Un-reached.

### Extension Strategies

The university is effectively reaching the unreached through the following extension strategies:

#### Farmers Advisory Cell (FAC)

Established FAC at university headquarters

which is acting as a Co-ordinating Centre for 42 institutes under Dr YSRHU in transfer of technology. A Mobile Number (9618021200) is specifically allotted to FAC and popularized this mobile number among farming community for regular advisories.

#### Plant Protection Advisory Cell (PPAC)

Created PPAC at university headquarters for regular advisories on plant protection and for pest and diseases monitoring and forecasting. Regular advisories are being posted in FPO based WhatsApp groups.

#### Horticultural Skill Training Centre (HSTC)

HSTC, located at university headquarters, is regularly providing skill training programmes to farmers, rural youth and women on following modules:

Dry Flower Technology; Advanced Dry Flower Technology; Processing & Value addition of fruits & vegetables; Advanced



Nursery Management; Aquaculture Worker; Small Poultry Farmer; Terrace Kitchen Gardening; Scientific Beekeeping; Mushroom Cultivation; Production and Use of Biocontrol Agents; Value addition in jack fruit; Value addition in palmyrah; Cashew nut processing and its value addition; Mushroom production and value addition; Beekeeping and Production and use of organic manures.

#### Horti Business Incubation Centre (HBIC)

HBIC at university headquarters is functioning with a mission to guide Horti/ Agri students, rural youth and women to become Horti entrepreneurs and thereby to create an Employer Culture, by providing services viz., Counseling, Technical



mentoring, Business mentoring, Capacity Building, Consultancy, Business Plan Preparation, Incubation and Pilot Scale Production.

### Digital Extension Services

#### Virtual Farmers Training Center



Under e-Extension established Virtual Farmers Training Centre at University campus, Venkataramannagudem for transfer of technologies to the extension personnel, farmers, rural youth and women through online mode along with farmers – scientists interaction facility.

#### Dr YSRHU Udyana Mitra

Established sophisticated electronic wing facility at university museum where regular recording of videos on latest technologies in Horticulture and allied sectors by subject experts (scientists/teachers) is being carried out under Dr YSRHU Udyana Mitra programme for dissemination of technologies and information to farmers, students and stake-holders and also through RBKs channel.



#### Farmers Awareness Creation Centre (FACC)

FACC was established at university museum and information is displayed on released varieties, latest crop production and protection



technologies with good diagnostic symptoms in various horticultural crops. Information Kiosk is made available at FACC as e-resource on latest technologies to be available 24 × 7.

#### Community Radio Station

Established Community Radio Station at university headquarters. Every day broadcasting of programmes on weather forecast, monthly operations in horticultural crops and adversaries are being carried out under Dr YSRHU Udyana Vani – 90.8 FM.



#### Dr YSRHU Phone-in programme

Scientists and teachers of Dr YSRHU are participating every day in Phone-in programmes. The schedule of Phone-in programme are being published in Newspapers/ monthly magazines/ WhatsApp groups well in advance.



#### Dr YSR Technical support to RBKs

A golden era in agriculture sector was set by establishing Dr YSR Rythu Bharosa Kendras (RBKs) by Government of Andhra Pradesh to bring the agriculture and allied sectors services to the door steps of farmers in every nook and corner of rural Andhra Pradesh. RBKs has turned into a common platform to integrate different line functions.

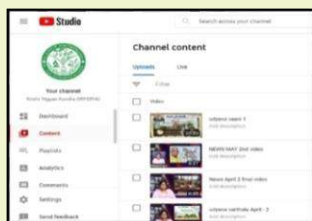




Scientists and teachers working at various centres under Dr YSRHU are providing technical support to RBKs by way of training programmes, group discussions with VHAs/VAAAs of RBKs and farmers in person and through webinars and WhatsApp groups.

### Dr YSRHU you tube channel

Dr YSRHU Youtube channel was created and all digital extension activities viz., Udyanavarthalu, Udyana Vani, Udyana Mitra, Technical support to RBKs, University special events and visits of VIPs etc., are being uploaded.



### Crop-wise and Technology-wise WhatsApp groups

Created about 50 crop-wise and technology – wise WhatsApp groups with farmers, rural youth and women, and providing regular advisories.

### Dr YSRHU Udyana Bandhu

Created a telegram group Udyana Bandhu with Dr YSRHU scientists and officials of Department of Horticulture and VHAs/ VAAs of RBKs and providing regular advisories.



### Dr YSRHU Udyana Bandhu app

An Android app containing crop-wise and technology-wise latest information on 33 horticultural crops and made available as Udyana Pantala e- Samacharam, was developed.

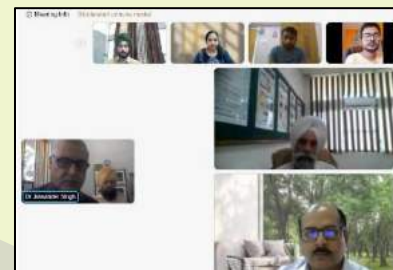
## GADVASU, Ludhiana

### Training

#### Scientific Rearing of Livestock

The Directorate of Extension Education, GADVASU & National Institute of Agricultural

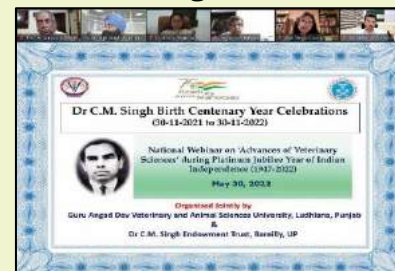
Extension Management, (MANAGE), Hyderabad organized a collaborative online training programme for extension functionaries on Imparting Skill among Youth for Scientific Rearing of Livestock. A total of 62 participants attended the training programme and brushed their scientific knowledge on necessary skills for building a successful enterprise in dairy farming, goat farming and pig farming; value addition and animal nutrition.



### Webinar

#### Advances of Veterinary Sciences

GADVASU organized a National Webinar on Advances of Veterinary Sciences during the Platinum Jubilee Year of India's Independence under the aegis of Dr C.M. Singh Endowment Trust, Bareilly, Uttar Pradesh. A total of 100 delegates registered for the webinar. Dr B.N. Tripathi, Deputy Director General (Animal Science) discussed the present scenario of emerging diseases of animals, antibiotic resistance and one health. Dr Inderjeet Singh, Vice Chancellor, GADVASU delivered a talk on Animal Husbandry Sector on Cross-roads and highlighted the contributions of the animal husbandry sector in the economy of the country.



The University bestowed award of honour to Dr B.N. Tripathi, Prof. Anu Singh-Cundy and Dr G. Taru Sharma. The Trust bestowed Scroll of Honour to Dr Inderjeet Singh, Vice Chancellor, GADVASU and Col. (Dr) Prof. A.M. Paturkar, Vice Chancellor, Maharashtra Animal and Fishery Sciences University, Nagpur.

## Symposium

### Technologies showcased in Garib Kalyan Sammelan

GADVASU, Ludhiana showcased different technologies during Garib Kalyan Sammelan-cum- National Interaction program for Farmers. It was on the occasion of Maize Day, and organized by ICAR-Indian Institute of Maize Research at its new campus, Laddowal, Ludhiana. Shri Hardeep Singh Puri, Union Minister of Petroleum and Natural Gas, Housing and Urban Affairs was the chief guest. He visited the GADVASU stall and praised the work done by the university for the farming community of the state and the country.



## Convocation



Second Convocation of Vet Varsity was held on 20 April 2022 at University Campus, Ludhiana. In the second convocation 318 students were awarded degrees who have successfully completed their academic programmes in Doctor of Philosophy, Master of Veterinary Science, Master of Dairy Science and Technology, Master of Fisheries Science, Master of Veterinary Science/ Master of Science (Biotechnology), Bachelor of Veterinary Science and Animal Husbandry, Bachelor of Dairy Science and Technology, Bachelor of Fisheries Science and Bachelor of Biotechnology. A total of 24 Gold Medals for different Academic Years were also awarded to meritorious students for excelling at university

level. The Governor of Punjab, Shri Banwarilal Purohit, Chancellor of the University, awarded degrees and congratulated the youth who have received their degrees after successfully completing the rigorous academic and research programmes. He highlighted the role of universities in producing knowledgeable, erudite and cultured citizens for the nation. Dr Inderjeet Singh, Vice Chancellor of GADVASU, in his convocation speech put forth the magnificent achievements of the university. It has been accredited by Indian Council of Agricultural Research and recognized by University Grants Commission. Shri Tarun Shridhar, retired IAS and Member (Administrative), Central Administrative Tribunal also received Doctor of Philosophy (Honoris Causa) for his praise-worthy contribution in livestock and fisheries Sectors. He also shared rich and interesting experiences of his life as a bureaucrat. Dr Umesh Chandra Sharma, President, Veterinary Council of India, Members of Board of Management of GADVASU, officers, faculty and other dignitaries also graced the occasion.

## Alumni Meet-2022

GADVASU organized 'GADVASU Alumni Meet-2022'. More than 500 participants from diverse backgrounds viz. Veterinary, Fisheries, Dairy Sc. and Bio-technology etc., joined this event. Technical sessions were conducted in the respective colleges of the University, where experts from the relevant fields shared their knowledge and experiences, as well as exchanged their ideas. A tribute was given to the alumni who had left for their heavenly abode in the recent past. A short film on the inception and activities



of GADVASU was displayed. On this occasion, three volumes of Vet Alumnus, GADVASU,



Telephone Directory, and Livestock Statistics Handbook were released.

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

### **Academic**

#### **Review Meetings by Agriculture Minister**

- A review meeting was held on 18 April 2022 at the University Center (NAHEP Bhawan) of the University.



On this occasion, Agriculture Minister of Uttarakhand, Shri Ganesh Joshi was the Chief Guest along with Vice Chancellor, Dr A.K. Shukla; members of the management council and Dean, Director, Scientists and faculty of all the colleges of the university were present. The chief guest also visited the virtual lab of IDP NAHEP and learned about the ongoing activities in the university.

- A next review meeting was held on 23 May 2022 in the Vice Chancellor's committee room of the university. On this occasion, Chief Guest, Agriculture Minister of Uttarakhand, Shri Ganesh Joshi; Vice Chancellor, Dr A.K. Shukla; Members of the Management Council and deans, directors, faculty in-charges, and guests were present. In the review meeting, the Agriculture Minister asked the scientists to stress upon organic farming, so that the income of the farmers can be increased. In the review meeting, deans, directors and faculty in-charge of all the colleges apprised



departmental achievements as well as future plans before the agriculture minister. The foundation stone of Devkinandan Agarwal Student Center was also laid by the Agriculture Minister.

### **Training**

#### **Agribusiness Management Opportunities for Youth**

The Directorate of Extension Education (SAMETI-Uttarakhand) organized three-day virtual training on Agriculture Management Opportunities for Youth, under the joint aegis of the College of Agribusiness Management, Uttarakhand and the National Institute of Agricultural Extension Management (MANAGE), Hyderabad.

In the inaugural session of the training, Joint Director, Extension Education, Dr Anuradha Dutta; Professor (Agronomy), Directorate of Extension Education, Dr B.D. Singh; Assistant Professor, College of Agribusiness Management, Dr Sneha Dohre, and MANAGE Fellow, Hyderabad, Dr Susrekha Das elaborated on the purpose, main theme, and importance of the training. The speakers discussed the precautions to be taken during business management, use of ICT in marketing, value addition, and benefits of Manduwa, Jhangora, Gahat, Amarnath, Kuttu, spices etc. with reference to Uttarakhand. The speakers also highlighted the increase in income and marketing system through components of agriculture such as fisheries, animal husbandry, poultry, milk production, medicinal and aromatic plants. In this three-day programme, training was given by scientists from the College of Agribusiness Management and Department of Agricultural Economics and trainers from MANAGE, Hyderabad.

A total of 62 participants including scientists, AATMA officers, entrepreneurs, and progressive farmers from various Krishi Vigyan Kendras of Uttarakhand, participated.



## Seminar

### National seminar on Fisheries

A two-day National Seminar on 'Contemporary problems of Fisheries and Aquaculture' was organized jointly with the College of Fisheries of the university and the Committee on Life Science, Satna on 19-20 May 2022. The chief guest of the function was



Padma Shri Sultan Singh, Eminent Fish Breeder and Innovative Fisherman, Haryana. Vice Chancellor, Dr A.K. Shukla; Director and Vice Chancellor, ICAR-Central Institute of Fisheries Education, Mumbai, Dr Ravi Sankar CN; Dean, College of Fisheries Science, Dr R.S. Chauhan; Chairman, Committee of Life Sciences, Dr A.K. Pandey and Professor, Department of Aquatic Environment Management, Dr Ashutosh Mishra were also present. In the seminar, 30 guests present from different states of the country were honoured with Lifetime Achievement Award, Professor G.B. Sinde SLS Medal 2021, Professor Baba Jadhav SLS Medal 2021, Best Scientist Award, Recognition Award, Honorary Fellowship (FSLSC), and Young Scientist Award.

## Extension

### Awareness programme organised for Gram Pradhan's of Uttarakhand villages

Directorate of Extension Education and SAMETI-Uttarakhand organized awareness programme from 13 to 27 June 2022 in different villages. The programme was organized for the Gram Pradhan's of all villages of Uttarakhand for the awareness generation of natural farming. The Government of India has decided to make 30,000 village heads of the country i.e. Gram Pradhan aware about natural farming through 750 online programmes in the first phase. Awareness programme was held online for all 15 days. At

the inauguration and closing of the programme, Director Extension Education, Dr Anil Kumar Sharma, while discussing in detail about the importance, benefits, and nuances of natural farming, stressed on adopting this new method in a phased manner. A total of 695 Gram Pradhan and progressive farmers attended the programme.

## KU, Gandhinagar

## Workshop

### Technical Approaches and Application of Anatomical Knowledge for Veterinary Practitioners

The Department of Veterinary Anatomy, College of Veterinary Science and Animal Husbandry (CVSCAH), Kamdhenu University, Navsari organized Online National Workshop *Technical Approaches and Application of Anatomical Knowledge for Veterinary Practitioners* during 06-08 June 2022. In this online National workshop participants viz, field veterinary practitioner, academican, PG students were joined across



country. More than 60 participants were taking active part in the workshop. The inaugural function was chaired by Dr N. H. Kelawala, Vice Chancellor, Kamdhenu University, Gandhinagar as the president; Dr M. C. Desai, Professor and Head, Department of Veterinary Anatomy, College of Veterinary Sci. and AH, KU, Sardarkrushinagar, as Guest of Honour and Dr V. B. Kharadi, Principal, College of Veterinary Sci. & AH, Kamdhenu University, Navsari as the Chairman of the function.

### Blood Donation Camp and Thalassemia Testing Programme

The National Service Scheme Unit and 9 Naval NCC Unit, CVS&AH Kamdhenu University, Navsari organized Voluntary Blood Donation Camp and Thalassemia Testing Programme on 4 June, 2022 in collaboration with Indian Red Cross Society and Lions Club, Navsari. All the UG and PG students actively participated in blood donation camp and donated 58 units of blood for the betterment of mankind. Thalassemia testing was done in 215 first- and second-year students of Veterinary College and all Polytechnic students. In this programme blood group testing and haemoglobin percentage evaluation were also carried out for all blood donors.



### Celebration of Ayushman Bharat Diwas

CVS&AH, Kamdhenu University, Navsari centre celebrated Ayushman Bharat Diwas on 30 April 2022. The program was organised by 9 Naval NCC and NSS unit of the college. The Ayushman Bharat Diwas is celebrated to achieve twin missions: (i) promoting health and wellness to the poor, and (ii) providing insurance benefits to them. The event successfully organized under the guidance and of Dr C. V. Savalia, I/C Principal



of the college. The students were educated about the Ayushman Bharat Yojana of GoI.

### World Veterinary Day-2022 Celebrated

Celebration of WVD-2022 at college campus. The Veterinary Clinical Complex, COVSAH, KU, Junagadh, celebrated the World Veterinary Day on 30 April 2022, in collaboration with the Deputy Director of Animal Husbandry, Junagadh, under the chairmanship of Dr P.H. Tank, Principal and Dean of the College. Annual Report of the Veterinary College for the year 2021, a brief report of NSS activities (2009-2021), Girja-e-Newsletter digital publication in CD, information folder publication of Department of Veterinary Anatomy, CD of Livestock Farm Complex were released by the guests, and certificates/prizes were distributed to students who participated in various activities of the college throughout the year. To commemorate World Veterinary Day, a Veterinary Diagnosis and Treatment Camp was held at the Veterinary Clinical Complex. A total of 163 animals were treated (36 cows/buffaloes, 17 horses, 28 dogs, 80 sheep/goats, and 2 camels). Staff from the VCC performed vaccinations, deworming, injected anti-tetanus serum to horses, surgical interventions, animal breeding-oriented care, and mouth wash, nail trimming, grooming, and ear cleaning for dogs as a part of the programme.





## KUFOS, Kochi

### Inland fisheries workshop



Dr K. Riji John inaugurating the state workshop on Inland Fisheries

Kerala Sasthra Sahitya Parishath (KSSP) and Kerala University of Fisheries and Ocean Studies (KUFOS) jointly organized a one-day state level workshop on Inland fisheries and aquaculture Development of Kerala on 6 June 2022 to draw a vision document on the future of fisheries sector of Kerala. Shri K. Babu, MLA and former Fisheries Minister inaugurated the workshop, in which fisheries scientists and farmers across the state presented their ideas to improve aquaculture production in a sustainable way by sharing their thoughts to improve inland fisheries of Kerala. Dr K. Riji John, Vice Chancellor, KUFOS presided over the inaugural function. Registrar Dr B. Manojkumar, Aquaculture Department Head, Dr K. Dinesh, KSSP representatives Professor P. K. Raveendran, Dr N. Shaji and Kumbalam Grama Panchayath President K. S. Radhakrishnan were among the speakers on this occasion.

## MAFSU, Nagpur

### XX Annual Convocation-Cum-Scientific Convention

National Academy of Veterinary Science (NAVS), New Delhi in association with MAFSU, Nagpur has jointly organized XX Annual Convocation-cum-Scientific Convention on 20-21 June 2022 at Nagpur Veterinary College, Nagpur. The convention is based on the theme of Restructuring Veterinary Education, Research and Extension for Enhancement of

Livestock and Poultry Production to Boost GDP.

The inaugural function was held in the presence of Dr Mohan Bhagwat, Sarsanghchalak, Rashtriya Swayamsewak Sangh as the Chief Guest. Union Minister of Fisheries, Animal Husbandry and Dairying Shri



Release of Compendium by the dignitaries on dais

Parshottam Rupala was the guest of honor. Dr D. V. R. Praksah Rao, President of NAVS (India), Col (Dr) Prof. A. M. Paturkar, Vice Chancellor of MAFSU, Dr Dakshinkar, Vice Chancellor of Kamdhenu University, Durg, Chhattisgarh and Shri Tarun Shridhar, Former Secretary of Animal Husbandry, New Delhi were present on the dais.

During the inaugural session about 20 eminent Veterinarians were felicitated with fellowship of NAVS (India). The Padmashree awarded veteran Veterinarians Dr M. L. Madan, Dr K. K. Sarma and Dr Sosamma Iype were felicitated for their remarkable achievement. Apart from this, the honorary fellowships were bestowed on Dr Mohan Bhagwat, Shri Parshottam Rupala, Shri Sunil Kedar, Dr Tarun Shridhar and Dr Umesh Chandra Sharma.

## MPUAT, Udaipur

- As a part of Azadi ka Amrit Mahotsav, Kisan Bhagidari Prathmikta Hamari Abhiyan, was jointly organized by KVKs of MPUAT and ATMA on 26 April 2022 at respective KVKs.



About 2,665 farmers, farmwomen and extension field functionaries' along with a



host of dignitaries attended the programme. The programme was aimed at sensitizing the farmers about the natural and organic farming, bio-fortified crop varieties, oilseeds and millets along with the special role of these crops in the economical and nutritional security of the farming community.



- Under the joint aegis of Krishi Vigyan Kendra, Bhilwara II and Animal Husbandry Department, one-day animal health and



vaccination camps were organized during May 2022 in Dhumdas, Chavandia and Kundaliya villages. In the camp, 144 livestock farmers were benefited by free vaccination and treatment of 1,613 animals.

- Animal treatment and vaccination camp was organised on 6 May 2022 at village Madar in collaboration



with Department of Animal Husbandry. In the camp 2 Veterinary

Doctors and six Veterinary assistants treated animals – 360 cow buffaloes vaccinated for ET, 18 cow buffaloes treated for infertility management, 457 cow buffaloes and 590 sheep goats treated for internal and external parasites.

- As a part of Azadi ka Amrit Mahotsav (75 years of India Independence), the Krishi Vigyan Kendras of MPUAT organized Garib Kalyan



Sammelan on 31 May 2022 at respective KVK campuses. Total 5,953 farmers, farmwomen, youths and extension field functionaries attended this programme.

### Trainings

- A six-day IDP- NAHEP sponsored Workshop on Communication and Presentation Skills was organized by the College of Community and Applied Sciences from 25 -30 April 2022 to develop mindset of the students for career planning, confidence in facing interviews and to develop effective communication skills among them. The resource person of the workshop was Dr Deepak Issar, Director, Institute for Mind Power and Personality Development, Udaipur. The different interactive sessions in the workshop focused on communication skills, preparing mindset for interviews, resume preparation and its importance, increasing focus and confidence and on-line/ telephonic interviews. Mock interview sessions were also conducted to provide hand on experience to the students regarding facing interviews and presentation skills. Total 66 UG students from CCAS and College of Fisheries participated in the workshop. Dr Dhriti Solanki, and Dr Rajshre Upadhyay, Prof. Department of Extension Education and Communication Management were the organising secretaries.



- A five-day Training on Drone Technology at Digital Technology Cell in association with IIFL

Foundation, Mumbai and Blue Infinitive was organized during 21 to 25 May 2022.



About 100 farmers and Members of Digital

Technology Cell, Students and nominated members from other constituent colleges of the university participated in the training. The Drone training was conducted by the trainer Mr. Dhawal and his team mates from Blue Infinitive.

### Webinar

College of Technology and Engineering organized a National Webinar on Basic Knowledge of Intellectual Property Rights (IPR), the Importance of IP, Patents, Trademarks, Copyrights, Case Studies Best Practices under



National IP Awareness Mission (NIPAM) Program on 28 April 2022 under the umbrella of Ministry of Commerce and Industries, MoE's Innovation Cell and AICTE. CTAE was one of the 75 centres all over the country for solemnizing IP literacy week celebration under the Kalam Program for Intellectual Property Literacy and Awareness Campaign (KAPILA). Dr N. S. Rathore, Vice Chancellor, the Chief Guest, inaugurated the webinar. Mr Subrat Sahu, Examiner of Patent and Design, Indian Patent Office, Government of India, New Delhi was the Eminent Speaker. Dr Trilok Gupta, HoD Civil Engineering and Co-ordinator Newgen IEDC was the organizing Secretary of the event which was attended by 250 participants.

### Workshop

The Annual Zonal Review Workshop for Krishi Vigyan Kendras of Rajasthan, Haryana and Delhi was held at MPUAT from 25 to 28 June 2022. In the Inaugural function held on the first day Dr A.K. Singh, DDG Extension, ICAR was the Chief Guest, Dr B.R. Kamboj, Vice Chancellor, CCSHAU, Hisar, Dr



A.K. Tomar, Director, CSWRI, Avikanagar were the Special Guests while Dr Narendra Singh Rathore, Vice Chancellor MPUAT chaired the session. Three publications entitled *Integrated Farming Systems*, *Success Stories of Farm Women and Quality Seed Production* were released on the



occasion. Dr D.C. Joshi, Vice Chancellor AU, Kota and Dr R.P Singh, VC, SKRAU, Bikaner also attended the conference and chaired different technical sessions. Seven technical sessions were organized on technology backstopping and progress report presentations were held over three days. The plenary session was chaired by Dr Narendra Singh Rathore, Vice Chancellor MPUAT. Dr S.K. Singh, Director ATARI, Jodhpur was the Chief Organizer of the workshop.

### PAU, Ludhiana

- **The World Earth Day** was celebrated on 22 April 2022 by the Department of Climate Change and Agricultural Meteorology to make the students aware of the importance and significance of earth day. The students actively participated in the event and were motivated for environmental conservation, they were apprised of the ongoing climatic and environmental issues. The theme of this year's earth day was 'Invest in Our Planet'. On this occasion, a competition for M.Sc. and Ph.D. students was organized in which presentations, posters and poems by the students were included. Students expressed their views highlighting climate change, climate variability, environmental health and safeguarding the mother earth.
- **World Environment Day** 2022 on the theme Only One Earth was celebrated on 5 June 2022 by the Department of Climate Change and Agricultural Meteorology. An interactive session was organized to sensitize the



students regarding environmental issues and management. Discussions about the present day environmental challenges were held, and it was stressed upon the need for lifestyle changes such as to reduce the use of fossil fuels, tree plantation and keeping our surroundings clean to improve environmental health. On this occasion Dr Joydeep Mukherjee, Principal Scientist in the Division of Agricultural Physics, IARI, New Delhi, delivered a talk on environmental issues. He emphasized on the need of individual initiatives such as saying no to plastics, sharing public transport and afforestation etc. to safeguard the environment.

### Workshops

- Department of Family Resource Management Organized 5-day Workshop on 'Macrame Art' from 21-27 April 2022.
- On the Environment Day, the Directorate of Students' Welfare, Punjab Agricultural University, Ludhiana organized two-day Photo Exhibition on Nature on 8-9 June 2022 in the Students' Home at PAU Campus and also conducted the Fine Arts Competitions of Photography, Poster Making and Cartooning for the bonafide students of PAU. An expert talk was also organized during the event.
- Department of Human Development and Family Studies celebrated the World Autism Awareness Day by organizing a webinar entitled Autism: General



Awareness and Educational Interventions on 2 April 2022. The resource person was Mrs Gunjan Girdha, Therapist and Case Manager, Autism Centre for Excellence, Noida.

### Trainings

- Five-day training program on production of brewed vinegar, low alcoholic naturally carbonated beverages and lacto-fermented pickles for farmers and farm women was organized at Skill Development Centre, PAU from 16.05.2022– 20.05.2022.
- Training cum Brainstorming Session on DSR (Direct Seeded Rice) for Agriculture Technocrats from Department of Agriculture and Farmers Welfare and Extension Scientists of KVKs was organized by Department of Agronomy on 6 May 2022.
- Online five-day training course on Preservation of fruit and vegetables was conducted by Department of Food Science and Technology, PAU from 17.01.2022 to 21.01.2022.
- Farmers apprised about judicious use of fertilizers:** The Department of Soil Science in collaboration with Department of Extension Education, PAU, organised a farmer training programme on 23-06-2022 on Judicious Use of Fertilizers in the village Hans Kalan, block Jagraon of district Ludhiana, under ICAR-National Level Campaign on Efficient and Balanced Use of Fertilizer. Dr Gurmeet Singh Dheri, Senior Soil Scientist, stressed upon the need for soil and water testing for the judicious use of fertilizers in rice crop and advised the farmers to practice green manuring to reduce the use





of chemical fertilizers. Farmers also shared their experiences and discussed their problems.

## PJTSAU, Hyderabad

### Agri Tech South 2022

3<sup>rd</sup> Edition AGRIVISION Conference on Agri-Technology and Innovation was organized from 20 to 22 April 2022 at PJTSAU, Rajendranagar, Hyderabad by Confederation of Indian Industry (CII) with Partner Country Netherlands, host State Government of Telangana in association with PJTSAU, supported by FACE. The conference and exhibition were inaugurated by Sri Singireddy Niranjan Reddy, Agriculture Minister, Government of Telangana. A total of seven technical sessions on various themes pertaining to Agri-technology and Innovation were organized during the conference. Farmers, private sector representatives, industry officials, research delegates and students participated in the summit and deliberated on various emerging themes concerning current agriculture during three-day event.

### Dr B. Ramamoorthy Memorial Lecture

Dr B. Ramamoorthy Fourth Memorial Lecture was organized by PJTSAU on 28 April 2022 at University Auditorium, Rajendranagar. Dr J.C. Katyal, Former Deputy Director General (Education), ICAR, New Delhi and Former Vice Chancellor, CCS, Haryana Agricultural



University, Hisar delivered memorial lecture on State of Natural Resources and Role of Regenerative Agriculture in Mitigating their Degradation. Dr V. Praveen Rao, Vice Chancellor and University Officers, faculty and students participated in the programme.

### Sri J. Raghotham Reddy Memorial Lecture

The University organized Sri J. Raghotham Reddy Memorial Lecture on Technological Innovations for Future Farming delivered by Dr A. K. Singh, Director, ICAR-IARI, New Delhi on 13 May 2022 at University Auditorium, PJTSAU, Rajendranagar, Hyderabad.



## SDAU, Sardarkrushinagar

### Trainings

#### Green House / Net House farming

Directorate of Extension Education, SDAU and Department of Horticulture, Government of Gujarat jointly organized 15-day training on Green House / Net House Farming on 27 June 2022, which was



inaugurated by Dr R.M. Chauhan, Vice Chancellor, SDAU. The farmers were trained about different crop cultivation practices under greenhouse/ net house, effective temperature management of green houses and net houses and post-harvest management of produce. The training programme constituted of series of 32 lectures and was attended by 60 farmers.

#### Basics of Computer for Rural Girls

Center for training and Empowerment of Rural Women, Department of Extension Education and



Communication Management, ASPEE College of Nutrition and Community Science, SDAU organized 5-day training programme on basics of computer for rural adolescent girls. They were taught MS Word, power point, excel, paintbrush, opening email account, internet surfing, etc.

### **Campaign on Bhumi Suposhan and Sanrakshan**

On the auspicious celebration of the *Azadi Ka Amrit Mahotsav*, SDAU initiated *Bhumi Suposhan* and *Sanrakshan Abhiyan*, inaugurated by Dr R.M. Chauhan, Vice Chancellor, SDAU. During campaign, the farmers of various villages of North Gujarat were trained for natural and organic farming practices, soil conservation etc. and the progressive farmers were also awarded. The farmers took pledge for soil conservation and saving the environment.



### **World Beekeeping Day**

Directorate of Extension Education and Department of Entomology, SDAU jointly organized on-campus as well as online training programmes on beekeeping on 20 May 2022 for the farmers of Gujarat state. More than 300 farmers were benefited through the training.



### **International Yoga Day**

The 8th International Yoga Day was celebrated around the world with the theme Yoga for Humanity on 21 June 2022. On the yoga day, the online yoga



**Glimpses of Yoga Day Celebrations**

practice and message was broadcast through online mode by Shri Narendra Modi, Prime Minister and Shri Bhupendra Bhai Patel, Chief Minister, Gujarat, in which Dr R. M. Chauhan, Vice Chancellor, SDAU along with university officers were present. The yoga program was organized at the University Sports Ground. During the program the importance of performing different *asanas* according to the Common Yoga Protocol, was also explained. The total 2,394 participants including university officers, NSS volunteers of different colleges, Program Officers, NCC cadets and students of SDAU attended it enthusiastically.

### **SKNAU, Jobner**

#### **National Seminar cum Exhibition**

A national seminar cum exhibition on Promotion, Value Addition and Export of Millets and Millet Products, was organized at Rajasthan Agricultural Research Institute, Durgapura during 7-8 May 2022. About 400 participants including national reputed scientists, NGO workers and policy planners actively participated in the programme. Several stalls displayed the value-added products prepared from millets, which were exhibited to create awareness about the dietary benefits of millets among the residents of Jaipur city.



## SKUAST, Jammu

### Kisan Mela

All the nine KVKs of SKUAST-Jammu organised Kisan Melas under *Kisan ki Bhagidari*, *Prathmikta*

*Hamari*, in their respective districts. In every district, more than 400 farmers from different panchayats along with Sarpanchs and Panchs attended the Melas. The



KVK Poonch



KVK Rajouri

programmes were organized in collaboration with all the line departments including agriculture, horticulture, fisheries, sheep husbandry, animal husbandry etc. An interaction session at each KVK was also held during which scientists replied to the queries of farmers.

### Training

Division of Livestock Products Technology, FVSc, R.S.Pura, SKUAST-J organized 5-days Training Programme on Capacity Building of Women through Livestock Farming, Sponsored by National Commission for Women (NCW), New Delhi from 17 to 21 May 2022 with 30 women dairy farmers.



## Convocation

### 7th Convocation of SKUAST-Jammu, Central University, Jammu

The 7th Convocation of SKUAST-Jammu was held from 26 - 28 June 2022 at Baba Jitto Auditorium, SKUAST, Chatha. Lieutenant Governor of JK-UT and Chancellor of University, H'E Shri Manoj Sinha was the Chief Guest on the occasion. This is the first time in the history of SKUAST-Jammu that convocation was held for three days. Prominent personalities including Dr Nirmal Singh, Former Deputy Chief Minister of erstwhile J&K State; Sh Atal Dullo, Financial Commissioner (Additional Chief Secretary), Agriculture Production Department; Dr S.P. Tiwari, Vice Chancellor, Nanaji Deshmukh Veterinary Sciences University, Jabalpur; Dr R. K. Sinha, Vice Chancellor, Shri Mata Vaishno Devi University, Katra; Dr Sanjeev Jain, Vice Chancellor, Central University Jammu, Jammu; Dr Raghav Langer, Administrative Secretary, Planning and Development Department; former Vice Chancellors; former Ministers, ex-Legislators, faculty, and students attended the convocation. Three Vice Chancellor gold medals were awarded to Master and doctorate scholars. Dr P. L. Gautam, Pro-Chancellor, Career Point University, Hamirpur, HP and Advisor Graphic Era Hill University, Dehradun, was awarded degree of Doctor of Science (*Honoris Causa*). The award of degrees and medals included – Award of Honoris Causa (02), Ph.D. Degrees to 181 students, M.Sc. Agri and Allied Sciences Degrees to 305 students, M.V.Sc. 103 students, M.Sc. Basic Sciences Degrees to 28 students, B.Sc. (Hons.) Agriculture & B.Sc. (Hons.) Biotechnology Degrees to 421 students, B.V.Sc. & A.H. to 265 students. Merit Certificates were awarded to 283 meritorious students. Four Gold medals were awarded one each to B.Sc. (Hons.) Agriculture, B.Sc. (Hons.) Biotechnology and B.V.Sc. & A.H., whereas, 02 medals were awarded for M.Sc. Vegetable Sciences degree holders.



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

### Kisan Mela

KVK, Villupuram II and the Department of Agriculture, Kallakurichi district jointly organized a Kisan Mela 2022 on Natural Farming as part of the Kisan Bhagidari Prathmikta Hamari campaign at KVK campus on 26.04.2022. Minister of Agriculture and Family Welfare inaugurated the programme. An exhibition showcasing natural farming practices was arranged. A total of 237 farmers, farm women and rural youth participated and benefitted.

### Seminar

A regional livestock, poultry exhibition and seminar on "Enhancing the Productivity of Desi Fowls by Scientific Interventions" funded by Indian Council of Agriculture Research - National Centre for Veterinary Type Culture - Scheduled Caste Sub Plan was jointly organized by the Department of Animal Genetics and Breeding, VC&RI, Tirunelveli and Vaccine Research Centre - Viral Vaccines, Directorate of Centre for Animal Health Studies, TANUVAS at VC&RI, Tirunelveli on 29-30.04.2022. A total of 7,619 school and college students and farmers benefitted out of this event.

### Conference

TANUVAS 2<sup>nd</sup> Intra-University Students Clinical Case Conference was organized by TANUVAS at VC&RI, Tirunelveli on 17.06.2022 through on-line mode. A total of 152 final year B.V.Sc. & A.H. students from four constituent colleges of TANUVAS participated. Students presented their clinical cases in seven sessions and prizes were awarded to the best presentations.

### International Conference

In collaboration with the Association of Veterinary Dermatology, India, TANUVAS organized the International Conference on Advancing Veterinary Dermatology Practice, Education and Research in Developing Countries; Inaugural Convention and Satellite Symposium of the Association for Veterinary Dermatology, India, and Dermatology Case Conference for Students and Practitioners, from 9.06.2022 to 11.06.2022 at Madras Veterinary College, Chennai. Thiru Anitha R. Radhakrishnan, Minister for Fisheries, Fishermen Welfare and Animal Husbandry, Government of Tamil Nadu inaugurated the conference, released the conference proceedings and delivered the inaugural address.

## University of Agricultural Sciences (UAS), Dharwad

### Kisan mela

ICAR-KVK, Dharwad organised Kisan mela under *Kisan Baghidhari Prathamikatha Hamari* in association with

Department of Agriculture (ATMA scheme), Dharwad on 26.04.2022.

The programme was inaugurated by Director of Research, UAS, Dharwad, Dr P.L. Patil. During the inaugural address he suggested the farmers to test their soils



Lead Bank Manager, Bank of Baroda Shri. Annayya R, inaugurated Kisan mela under "Kisan Baghidhari Pratham Katha Hamari" along with Director of Research, UAS, Dharwad,



Gathering of farmers at Kisan mela under "Kisan Baghidhari Prathamikatha Hamari"

regularly, apply fertilizers based on soil health card report and take active role in water conservation. Deputy Director, Department of Agriculture, Smt. Smitha R, highlighted the schemes available in the department. Lead Bank Manager, Bank of Baroda, Shri Annayya R summarized the importance of Kisan credit card and other bank facilities available for the farmers. DGM, NABARD, Dharwad Shri. Mayur Kamble, gave the information about NABARD subsidiary schemes available for rural youth in creating job opportunities and self-employment at rural areas. Member, BOM, UAS Dharwad, Shri Shashimouli Kulkarni, requested the farmers to make proper utilization of the government schemes. Member, BOM, UAS, Dharwad Shri Y. N Patil, shared his experiences in establishing self-employment opportunities in agriculture and allied activities. Zilla Krisik Samaj president, Dharwad, Shri Basavaraj Kundagol addressed the farmers and enlightened them about innovative technologies, which can increase production productivity and income. Senior Scientist and Head, KVK, Dharwad Dr S A Biradar, welcomed the guests. More than 250 farmers, farm women and officials participated in the programme. Farmers visited the stalls exhibited by KVK, ICAR institutes, SHGs, FPOs and companies.

### **Krishi Vigyana Kendras Zonal Workshop – 19 to 22 June 2022**

Sushri Shobha Karandlaje, Minister of State Agriculture and Farmers Welfare on 19 June 2022 inaugurated the Krishi Vigyana Kendras Zonal Workshop – 2022, on strengthening IFS through



**Inauguration of the Krishi Vigyana Kendras Zonal Workshop – 2022, on strengthening IFS through Appropriate Technologies along with Organic and natural Farming Practices by Honorable Minister of State Agriculture and Farmers Welfare Sushri. Shobha Karandlaje**

Appropriate Technologies along with Organic and Natural Farming Practices organized from 19<sup>th</sup> to 22 June 2022 at University of Agricultural Sciences, Dharwad. In her inaugural address she said that farmers should not be just producers but should also know to convert it into the products required by the consumers. In this direction the KVK's and Agricultural Universities should guide the farmers so that they can make use of the technologies available and double their income. Minister for Agriculture, GoK, Shri B. C. Patil advised the students that Agricultural graduates should become job providers instead of job seekers by starting enterprises to produce agricultural value-added products. Deputy Director General (Agricultural Extension), ICAR, New Delhi Dr A. K. Singh in his online address said that the workshop is planned to strengthen the Integrated Farming System through organic and natural farming to come out with the strategies to increase farmers income. Director General, DARE, New Delhi Dr T. Mohapatra, in his online keynote address said that diversification is necessary in agriculture to overcome problems due to climate change, reduce malnutrition and improve sustainability in agriculture. KVK ebazaar app, Kissan Samrudhi brand for marketing KVK products and mobile app of Krishi Community Radio Station of University of Agricultural Sciences, Dharwad were released on the occasion. Shri Shankar Patil Munenakoppa, Minister of Textiles and Sugarcane, GoK, Shri S.V. Sankanur, MLC, GoK, graced the occasion. Shri Shashimouli Kulakarni, Shri Mallesh P., Shri L.S. Ajagannavar, Members, Board of Management, UAS, Dharwad, Directors of Extension from all Agricultural Universities and Heads of all KVKs from South India were present. Vice Chancellor, UAS, Dharwad Dr M.B. Chetti welcomed the guests.



## Seminar

### National Seminar on Sustainable Food Production Systems for Self-Reliant & Climate Resilient Agriculture

The National Seminar on Sustainable Food Production Systems for Self-Reliant & Climate Resilient Agriculture, organized in collaboration with Indian Council of Agricultural Research, New Delhi, and all the farm



Universities of Karnataka, National

Hon'ble Vice Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi (UP) Dr. Aravind Kumar delivering inaugural speech

Bank of Agriculture and Rural Development, (NABARD) Mumbai and National Rainfed Area Authority, Ministry of Agriculture and Farmers Welfare, GoI, New Delhi on 16 June 2022 at UAS, Dharwad.

The seminar was inaugurated by Prof. (Dr) Arvind Kumar, Vice Chancellor of Rani Lakshmi Bai Central Agricultural University, Jhansi, Uttara Pradesh. He emphasized that COVID 19 had many impacts on agricultural growth during the last two years. He said that the global warming has resulted in high temperature during the Rabi season which has affected wheat productivity in India. We need to follow the integrated crop management in the production of oilseed crops to increase yield levels. He stressed upon the importance of growing crops with less water.

## International Trainings

World Bank funded project under National Agricultural Higher Education Project (NAHEP)-Institutional Development Plan (IDP) of ICAR, New Delhi entitled Augmenting quality and relevance of higher agricultural education through enhanced learning outcome and entrepreneurship development, two-year project with an outlay of Rs 24.67 crore have

been sanctioned to UAS, Dharwad on competitive mode with an objective of developing world class university in the country. As a part of this project 120 students will be divided into 3 batches, 45 students in first batch to Tampere University, Finland, 40 students in second batch to Dubai University, and 35 students in third batch to Asian Institute of Technology (AIT), Thailand for two months international training. Forty-five students went Finland for visiting Tampere University, for two months training on 9 May 2022. This programme was delayed due to COVID-19 pandemic.



Vice Chancellor, Dr. Mahadev B. Chetti, Co-principal Investigator, IDP and Nodal Officer (International activities) Dr. K. V. Ashalatha and Dean (Agri), Dr. B. D. Biradar with 45 UG students deputed to Tampere University, Finland

## 35<sup>th</sup> Convocation

India can be made Atma Nirbhar through vibrant agriculture said Shri. Thawarchand Gehlot, H'E Governor of Karnataka. Further, he called upon Agriculture graduates to join hands with the people in Atma Nirbhar Bharat through Technological Innovations. He was delivering Presidential address and conferring the degrees and other awards at the 35<sup>th</sup> convocation of



Hon'ble Governor of Karnataka, Shri Thawarchand Gehlot, Hon'ble Minister for Agriculture, Govt. of Karnataka Shri. B. C. Patil, DDG (Agril. Education), ICAR, New Delhi Dr. R. C. Agrawal, and Vice Chancellor, Dr. M. B. Chetti, Registrar, Shri. Shivanand B. Karale

Technological Innovations. He was delivering Presidential address and conferring the degrees and other awards at the 35<sup>th</sup> convocation of



UAS, Dharwad on 7.6.2022. He narrated his experience of Israel tour where they are using each drop of water judiciously. He expressed hope that the students who are leaving this University, with adequate knowledge, skill, dynamic potential and strong will to serve the nation, will be able to face the challenges in agriculture sector and prove to be a great asset to the nation in uplifting the agriculture sector and in improving the economy.

A total of 890 candidates were conferred with various

Degrees at the 35<sup>th</sup> Convocation. Of these, 765 received the Degree in person and the remaining 125



Hon'ble Governor of Karnataka State and Chancellor of UAS, Dharwad Shri Thawarchand Gehlot presided over the 35th convocation and conferred the degrees & other awards.

candidates received the degree in absentia. During this convocation, the graduates from Agriculture (406), Forestry (62), and Agricultural Marketing and Co-operation (54), Community Science (53) and 20 graduates from B. Tech (Food Technology) received the degree accounting to 595 graduates.

A total of 253 candidates received Postgraduate Degrees. Of these, 204 students took degree in person and 49 students in absentia. These students belonged to M.Sc. (Agriculture) – 224, M.Sc. (Forestry)–3, M.Sc. (Community Science)–11 and M.B.A (Agribusiness)–15.

The Degree of Doctor of Philosophy was conferred to 42 candidates of whom, 39 received Degree in person and 3 students in absentia.

In this convocation, 48 Gold Medals and 11 Cash prizes were presented to the meritorious students.

Governor of Karnataka State and Chancellor of UAS, Dharwad Shri Thawarchand Gehlot awarded three Honorary Doctorates to Manager (Special Duty as Head), Quality Control, Ugar

Sugar Works Ltd., Ugar Khurd (Belagavi), Shri Jagadish Hari Kulkarni; 49<sup>th</sup> Mathadhipati and Sole Trustee, Shri Sidhagiri Math, Kaneri Kolhapur, Maharashtra, Shri H.H. Adrushya Kadsiddheshwar Swamiji; and Innovative farmer Master trainer on organic and natural farming of Ajdawda Village, Barnagar Block, Ujjain, Madhya Pradesh Shri Yogendra Kaushik.

## MOUs & TECHNOLOGIES COMMERCIALIZED

**The Universities signed following MOUs/MOAs/MTAs during the period under report.**

### AAU, Anand

- Anand Agricultural University (AAU) signed a Memorandum of Understanding (MoU) with the Cooperative giant AMUL for transfer of Liquid Biofertilizer technology on 9 May 2022 at the function organized at AAU campus. The MoU was



Vice Chancellor, AAU; Managing Director of Amul with MoU

signed by the Director of Research and Dean PG studies, Dr M. K. Jhala and the Managing Director of AMUL Shri Amit Vyas in esteemed presence of Vice Chancellor of AAU, Dr K. B. Kathiria. Under agreement, AAU and AMUL will jointly work for effective transfer of the technology of Liquid Biofertilizer for carving the excessive use of chemical fertilizers in farming.

- Agri & Food Business Incubator, AAU has signed Memorandum of Agreement (MoA)



Officials with Memorandum of Agreement

with 7 Innovative Food and Agri-startup companies selected for grant in aid by RKVY R-ABI, Ministry of Agriculture and Farmers' Welfare, Government of India on 27 April 2022.

- Material Transfer Agreement (MTA) between Anand Agricultural University, Anand and Gujarat State Seed Corporation (GSSC), Gandhinagar on utilizing varieties having BG-I and BG-II gene in developing and commercialization of new Cotton Varieties. With this agreement, Gujarat State Seed Corporation, Gandhinagar will provide three Cotton varieties having BG-I and BG-II gene to the AAU, Anand for developing new hybrids/varieties as well as its commercialization. The agreement has been signed in presence of Vice Chancellor, AAU, Anand, Dr K. B. Kathiria, by Director of Research, AAU, Dr M. K. Jhala and Managing Director, GSSC, Shri P. S. Rabari on 30 June 2022 at AAU, Anand.



Vice Chancellor and Hon.  
Managing Director with Material  
Transfer Agreement

- 28.05.2022: ANGRAU entered MoU with Sahasra Crop Science Private Limited (SCS), Hyderabad for collaboration in Nano-technology.
- 28.05.2022: ANGRAU entered MoU with MANAGE, Hyderabad.

## BAU, Ranchi

### MoU in the field of Tasar Research and Extension

Birsa Agricultural University, Ranchi signed agreements with Central Tasar Research and Training Institute, Ranchi and Tasar Development Association, Deoghar for research and extension in Tasar area. These two agreements were signed during 50<sup>th</sup> Research Advisory Committee meeting of Central Tasar Research and Training Institute, Ranchi. In the meeting, BAU, Vice Chancellor Dr Onkar Nath Singh, President RAC SBRL Bengaluru Dr N. Krishna Kumar, Director (CTRITI) Dr K. Satyanarayana, IIAB, Ranchi Director Dr Nitin Kulkarni, Registrar Dr N. Kudada, were present.

### MoU for Academic and Research Exchanges on Forest Productivity

Birsa Agricultural University, Ranchi and Institute of Forest Productivity, Lalgutwa, Ranchi (Unit of Indian Council of Forestry Research and Education, Dehradun) signed MoU for promotion and cooperation to conduct and exchange academic and research activities in the field of forest productivity on 11 April 2022. This agreement will be valid for 5 years.

## CAU, Imphal

The CAU, Imphal signed an MoU with FEEDS Group of Institution (FGI) Hengbung, Manipur on 8.4.2022. The MoU will be Valid till 7.4.2025.

## ANGRAU, Guntur

- 07.04.2022: ANGRAU entered MoU with Participatory Rural Development Initiative Society (PRDIS), Hyderabad.
- 19.04.2022: ANGRAU entered MoU with ICAR, National Bureau of Soil Survey and Land use planning, Nagpur.
- 27.04.2022: The university signed MoU for teaching, research and training in emerging technologies that can be applied to agriculture with Vellore Institute of Technology (VIT), Amaravathi, Andhra Pradesh.
- 25.04.2022: ANGRAU entered MoU with Biofac Inputs Private Limited, Hyderabad.

**Dr YSPUHF, Solan**

- Agreement for establishment of Incubation Centre for processing of mushroom, fruits, vegetables, spices and herbs with Govt of Himachal Pradesh, Udyog Bhawan, Bemloe Shimla HP on 9-5-2022.
- MoU for Drone Flying Training of Students with Indira Gandhi Rashtriya Uran Akadami (IGRUA) on 10-06-2022.

**Dr YSRHU, Venkataramannagudem**

- Dr YSRHU Signed MoU with National Horticultural Research and Development Foundation (NHRDF), New Delhi on 11 April 2022.
- Dr YSRHU Signed MoU with ICAR-Indian Institute of Vegetable Research, Varanasi on 13 April 2022.
- Dr YSRHU-KVK, Venkataramannagudem and Govt. Degree College, Dr Goenka Degree College, Tadepalligudem and Govt. Degree College, CHL Varaprasad Raju College, Pentapadu exchanged the Memorandum of Understanding (MoU) for skill development and faculty development on 25 June 2022.

**GADVASU, Ludhiana**

- GASVASU inked an MoU with SS Waste link Sustainability Services Pvt. Ltd. New Delhi to study the effect of supplementing biscuits, snacks and noodle wastes to the total mixed ration on milk production, quality and reproduction in dairy animals. MoU will help to evaluate the effects of the graded substitution of cereal grains by biscuits, snacks and noodle waste on milk production, its quality and reproductive performance in dairy animals.
- GADVASU Ludhiana and M/s Frontier Dairy Junction (FDJ), Halwara, Ludhiana signed an MoU for exchanging technical knowledge and services related to nutrition,

reproduction, vaccination, disease prevention, development in milk processing and milk products etc. For this purpose, herd managed by FDJ will be utilized by GADVASU for conducting basic and applied research on cattle, calf and heifer growth, fertility, nutrition, management and for students' exposure visits during internship/training etc. The agreed mutual cooperation will help in achieving the common objective of promotion of cattle farming on scientific basis in the state.

**KUFOS, Kochi****KUFOS and Bay of Bengal Programme-signed MoU**

KUFOS and Chennai based Bay of Bengal Programme (BoBP-IGO) signed MoU to cooperate and work together in areas of common interest.

The Bay of Bengal Programme Inter-Governmental Organization (BoBP-IGO) evolved from the erstwhile Bay of Bengal Programme of the Food and Agriculture Organization (FAO) of the United Nations (UN), is a unique regional fisheries body, specifically mandated to assist the member countries (Bangladesh, India, Maldives and Sri Lanka) in increasing the livelihood opportunities and improving the quality of life of the small-scale/artisanal fisher folk in the Bay of Bengal region. According to the MoU the KUFOS and BoBP-IGO desire and intend to develop co-operation and collaboration in research, policy advocacy, capacity building, training, education and other agreed activities that further the following aims and objectives of both the parties, as within the limitations of both the Institutions' resources, policies and procedures.



The MoU was signed and exchanged in Chennai on 8 May, 2022 by KUFOS Fisheries Faculty Dean Dr Roslind George and BoBP-IGO Director Dr P. Krishnan in the presence of KUFOS Vice Chancellor Dr K. Riji John. Mr Ahmed Shifaz, Director, Min. of Fisheries, Marine Resources and Agriculture, Male, The Maldives; Dr Md. Sharif Uddin, Director, Marine Fisheries Officer, Department of Fisheries, Bangladesh; Mr Dhammika Ranatunga, Director General (Technical), Ministry of Fisheries, Sri Lanka; Mr Subrata Bhowmik, Joint Secretary, Department of Fisheries, Bangladesh; and Dr Shivakumar Magada, Dean, College of Fisheries, Mangalore were also present on the occasion.

### MPKV, Rahuri

MPKV signed MOU with-

- M/s Vitthal Prasad Engineering, Kolhapur for design and development of Tractor Operated Phule Horizontal Two Side Discharge shredder for Orchards.
- M/s Micro Sons, Nashik for design and development of Tractor Operated Banana Stem Shredder.
- DBT, New Delhi for implementation of network project, Characterization of chickpea germplasm resources to accelerate genomics-assisted crop improvement.
- ICAR- National Research Centre - Pomegranate for collaborative research work on development of variety, technology, material transfer and student research in pomegranate.
- 7 Coromandel International Ltd., Hyderabad for training, research and extension.
- NDDB, Rahuri for production of *desi* cattle calves through embryo transfer technology.
- GIZ, Prosoil for collaborative research, education, training and extension in climate smart agriculture.
- Mula Education Society's College of Pharmacy, Sonai, Newasa, Ahmednagar for technology and knowledge transfer- in terms of knowledge of medicinal and aromatic plants and their cultivation, collection and collaborative research for technology and product development, identification of new chemical entity.
- ICAR-National Research Centre for Grape for Collaborative research work on development of variety, technology, material transfer and facilitating student training/postgraduate research work.
- Indian Agricultural Research Institute-Regional Station, Pune - Technology transfer, germplasm sharing, collaborative research, knowledge initiative, etc.
- ICAR-Central Institute for Research on Cotton Technology (ICAR-CIRCOT), Mumbai for carrying out collaborative research on efficacy evaluation of ICAR-CIRCOT Nano-Sulphur as fertilizer formulation for different field crops.
- ICAR- Indian Institute of Sugarcane Research, Lucknow, UP, India for sharing of scientific expertise and exchange of research ideas in the form of long-term collaborative research, education, extension and training for overall improvement in cane and sugarcane productivity.



### MPUAT, Udaipur

- In a ceremony at Raj Bhavan, Jaipur on 20 April 2022 in the gracious presence



of Hon'ble Governor of Rajasthan, MPUAT inked an MoU with Indian Red Cross Society National HQ and its state branch. The focused areas of collaboration will be system development, technology development and action research specifically to the tribal dominated belt of action area of MPUAT and collaboration for supplementing and utilizing resources and facilities for skilling of youth in the field of disaster management and climate resilient agriculture through systematic funding.

- An MoU was signed between College of Dairy and Food Technology and Prompt Equipments Pvt. Ltd, on the occasion of World



Milk Day, 1 June 2022. The MoU will facilitate industrial trainings and visits of students and staff to various companies, guest lectures on technology trends, placements of students and free software and instruments to the college for instruction purpose.

- An MoU was inked between College of Community and Applied Sciences and ICAR-Central Institute for Research on Cotton Technology on 4 June 2022 to facilitate collaborative research between the students, faculty and staff of the two institutes.

- MPUAT and Rajyoga Education and Research Foundation, Brahma Kumari Ishwariya Vishwavidyalaya, Mount Abu inked an MoU on 17 June 2022 to promote



agriculture and allied activities in technology demonstration, capacity building, certificate course, research capacity for the betterment of the farming community. Dr. Narendra Singh Rathore, Vice Chancellor and B.K. Sarla, Chairman of the foundation performed the signing-in ceremony. All the

senior officers of MPUAT and people from Rajyoga Foundation were present on the occasion.

### PAU, Ludhiana

- The PAU signed an MoU with FMC India Private Limited, on 22.6.2022, as per which FMC will sponsor scholarships to the students of PAU. Dr Shammi Kapoor,



Registrar, PAU and Dr Anandakrishanan Balaraman, Director, Research and Development, FMC India Private Limited, Mumbai signed the pact on behalf of their respective organizations. FMC under its FMC Science Leaders Scholarship Programme desires to sponsor scholarships to the Ph.D (for three years) and Master's (for two years) students of PAU, pursuing degree programmes in the Departments of Agronomy, Entomology, Plant Pathology, Soil Science and Horticulture (Fruit Science, Vegetable Science, and Floriculture and Landscaping).

- Modified PAU fixed Dome Type Janta Model Biogas Plant having capacity from 25 m<sup>3</sup>/day to 500 m<sup>3</sup>/day with Preet Energies, Gurudwara Market, Amloh-147203 (Fatehgarh Sahib) on 12.4.2022.
- Modified PAU fixed Dome Type Janta Model Biogas Plant having capacity from 25 m<sup>3</sup>/day to 500 m<sup>3</sup>/day with ZAK Venture Pvt. Ltd., 2502, 5th Floor, Tower No. 2, Express Trade Tower 2, Plot No. 36, Block-B, Sector-132, Noida, U.P.-201301, India on 12.4.2022.
- Paddy Straw Based Biogas Plant made up of Mild Steel Sheet (Above the Ground) with ZAK Venture Pvt. Ltd, 2502, 5th Floor, Tower No. 2, Express Trade Tower 2, Plot No. 36,



Block-B, Sector-132, Noida, Uttar Pradesh 201301, India on 12.4.2022.

- PAU Smart Seeder with Hoshiarpur Steel, Labha Nagar, Dagana Road, Hoshiarpur (Punjab) 146001 on 25.4.2022.
- Multigrain Atta technology commercialized with KNK Enterprises, 405, Arora Prime Tower, G.T Road, Jalandhar- 14400, Punjab on 30.5.2022.
- Sugarcane Juice Bottling Technology with Ashmit Food and Soft Drinks, 107, Sikhera Road, Industrial Area, Modinagar- 201204, District Ghaziabad, Uttar Pradesh on 09.6.2022.

### PJTSAU, Hyderabad

The PJTSAU entered in MoU with the following institutes / organizations

- National Institute of Rural Development and Panchayati Raj (NIRDPR), Hyderabad on 8 April 2022 for three years to share the knowledge and experience for effective implementation of research, development and capacity building programme in the area of sustainable agricultural and rural development.
- Wevio Global Private Limited, Hyderabad on 16 April 2022 for five years to learn, assimilate and develop further on the core strengths, experience and institutional objectives of the respective parties in the public interest of advancement of training, action research and technology development in issues related to mechanization and holistic approach on sustainable development.
- Sresta Natural Bio-products Private Limited, Madhapur, Hyderabad on 16 April 2022 for three years for collaborating



academic programmes, research partnerships and for supporting R&D through innovation, entrepreneurship and training in various fields of common interest related to bringing the results of science and technology to society.



- Tamil Nadu Agricultural University, Coimbatore on 19 April 2022 for five years to have collaboration to share the knowledge and experiences for effective implementation of research, development and capacity building programme in the area of sustainable agricultural and rural development.
- Rasi Seeds Pvt. Ltd, Coimbatore, Tamil Nadu for a period of five years on 6 May 2022 to make significant contributions through collaborations in working for joint projects, conducting trials, demonstrations and workshops jointly, training and development specifically skill development, market research projects for institutional building for Government and Private corporations.
- Participatory Rural Development Initiatives Society (PRDIS), Hyderabad on 24 May 2022 for a further period of three years to collaborate in National and International conferences, Research studies and Training Programmes for the officers of Agriculture and allied sectors, progressive farmers and other stakeholders in India and abroad to share experience and gain knowledge in the field of Agricultural Research, Extension and Development Programmes etc.
- University of Agricultural Sciences (UAS), Bengaluru on 1 June 2022 for five years to collaborate in Ph.D. thesis research, a full time Ph.D. Programme for in-service candidates, on disciplines related to Agricultural Sciences organizing training / workshop / conference / symposia.

- Telangana State Information Technology, Electronics and Communication Department (ITE&C Department) on 1 June 2022 for a further period of three years for collaboration in the areas of Education and Training, Research and Innovation, Data sets and Project Advisory in designing emerging technologies pertaining to the domain of Agriculture.

### SKNAU, Jobner

- SKNAU and Indian Red Cross Society, Delhi and Rajasthan state Red Cross Society, Jaipur inked MoU on 20.4.2022 for collaboration of objectives like building the resilience of MoU – SKNAU, Jobner & Indian Red Cross Society, New Delhi



disaster and climate change, strong emphasis on disaster risk management on natural, manmade related environmental technological and health hazards and risk and preventing new risk, reducing existing risk and strengthening resilience.

- SKNAU and ICAR- National Bureau of Plant Genetic Resources (NBPGR), New Delhi signed an MoU on 12.5.2022 for academic excellence through guiding students, utilizing research instrumentation and library facilities by the faculty and research scholars of both the organization as well as exchange the students for academic, research and training purposes.



MoU – SKNAU, Jobner & NBPGR, New Delhi

### SKUAST, Jammu

MoU's entered with various agencies:

- J&K Khadi & Village Industries Board (KVIB) from 28.5.2022 to 27.5.2025 for 3 years.
- Sanskriti University from 28.5.2022 to 27.5.2025 for 3 years.
- Ho Chi Minh City University of Technology (HUTECH), Ho Chi Minh, Vietnam from 25.6.2022 to 24.6.2027 for 5 years
- ICAR-NBAIR, Bengaluru from 16.6.2022 to 15.6.2027 for 5 years

## PATENTS

### ANGRAU, Guntur

“Production of alcohol (Nutrohol) from *Agave albomarginata*” (Patent No: 395370, Dt: 25.04.2022)

### GADVASU, Ludhiana

GADVASU, Ludhiana has added another feather to its cap by obtaining a patent (Patent no. 396356) for the technology of Buffalo Milk Protein Concentrate. The GADVASU scientists suitably modified the ionic and protein environment of buffalo milk for the production of highly soluble and functional buffalo milk protein concentrate.

### MPKV, Rahuri

A patent (Patent No. 390645) was granted to MPKV, Rahuri for an invention entitled -- A Process for Preparation of Cookies, on 28.2.2022.

### MPUAT, Udaipur

- MPUAT secured a Patent (Patent No. 394405) entitled A Composition of Mix Proportion of Compacting Self Precast Floor Tile





Utilizing Sugarcane Bagasse Ash dated 7-4-2022. Dr Trilok Gupta, Associate Prof and Head, Department of Civil Engineering, CTAE was the inventor.

- A Patent (Patent No. 394320) entitled A Method for the Preparation of Control Release Urea Nanoformulation for plants, was granted to MPUAT on 6 April 2022. Ms Damyanti Prajapat, Ms Khaidem Aruna Devi, Dr Abhay Dashora, Dr Jagdish Choudhary, Dr Urmila Choudhary, Dr S.K. Sharma and Dr Vinod Sahran were the inventor.

### PAU, Ludhiana

- Indian Patent (No. 399015) was obtained on Method for water testing and water testing kit, on 13 June 2022 by the Department of Microbiology, PAU.
- A patent (Patent number 397361) for Sugarcane Bud Chipping Apparatus was granted to the Punjab Agricultural University for its Novel Bud Chipping Technology for Sugarcane, Bamboo, etc., developed by Mr Jasvir Singh Gill, Assistant Agronomist, Farm Machinery and Power Engineering, PAU, Ludhiana. The University filed a patent for this innovation in 2014. This novel apparatus complements Bud Chip Technology for sugarcane propagation under direct planting and nursery raising methods, potentially reducing the sugarcane seed rate requirement by 98 %.

### TANUVAS, Chennai

- Patents were granted to the following two inventions developed by the faculty members of TANUVAS
  - Patent No. 392041 - Invention on nutraceutical chocolate fortified with omega-3 fatty acid derived from Chia seed variants.

- Patent No. 393700 - Invention on least calorific and low fat pearl millet ice cream fortified with antioxidants derived from musk melon.

## AWARDS & RECOGNITION

### AAU, Anand

- National Mango Festival 2022 was organized by Gujarat Tourism on 27-29 May 2022. Anand Agricultural University took part in it. Chief Minister of Gujarat Shri Bhupendra Patel inaugurated this national festival.



Vice Chancellor, AAU while receiving the award

AAU displayed various 294 types of mangoes in its stall. The efforts of the Anand Agricultural University, made to recognize the diversity of mangoes of Gujarat at the national level were applauded by the Chief Minister. The demonstration stall of the University was designed under the direct guidance of Vice Chancellor Dr K. B. Kathiria, which secured award of Best Display of Mango Stall by the hands of Chief Minister.

- Dr Kalyanrao Patil, Assistant Professor and Head, Department of Seed Science and Technology, B.A.C.A., AAU, Anand was



Scientist receiving the fellowship certificate

admitted as the Fellow of Society for Horticultural Research and Development for the significant contribution in the field of vegetable and medicinal crops during 2<sup>nd</sup> Indian Horticultural Summit, 2022 held at Navsari Agricultural University, Navsari.

- The Ph.D thesis entitled Functional Analysis of Leadership Behavior of Women Sarpanch Under Panchayati Raj System, by Dr Nikita Ganpatsingh Thakor under the guidance



Ph.D. Scholar receiving the award

- of Dr J. K. Patel, Director, EEI, AAU, Anand, got MANAGE award 2021 for Best Ph.D. thesis in Agricultural Extension. She was also felicitated with certificate, memento and received cash prize ₹ 20,000 on the 35<sup>th</sup> Foundation Day of National Institute of Agricultural Extension Management (MANAGE) from Director General, MANAGE at Hyderabad.

- Dr Vinay Kumar H. M., Assistant Professor, Department of Agricultural Extension and Communication, BACA, AAU, Anand received MANAGE Award for Best book in Agricultural Extension-First Prize for the year 2021



Faculty receiving the award

- for his book entitled "Climate Change and Resilient Food Systems: Issues, Challenges and Way Forward" on the occasion 35<sup>th</sup> foundation day of National Institute of Agricultural Extension Management (MANAGE) from Director General, MANAGE at Hyderabad.

- Dr Gayatree Rajendrasinh Jadeja, Assistant Professor, Polytechnic in Food Science and Home Economics received Late Champaben Vallabhbhai Mayani Best Woman Scientist Award for the



Faculty receiving the Award

year 2021 by the Society of Extension Education, Gujarat in the occasion of National Seminar-2022 on Synergetic Extension Approaches for Livelihood Improvement and Agricultural Development, organized at Junagadh Agricultural University, Junagadh during 24 -25 June 2022.

- Dr K. B. Kathiria, Vice Chancellor and Dr Y. K. Jhala, Assistant Research Scientist received the 17<sup>th</sup> FGI Awards for Excellence in



Dr K. B. Kathiria receiving the award the category of Outstanding innovation in the field of Agriculture/Food Processing on 14 May 2022 at Ramanbhai Auditorium, Vadodara.

### ANGRAU, Guntur

- Acharya N. G. Ranga Agricultural University, Guntur was granted Accreditation for a period of five years with effect from March 2021, till March 2026.
- Dr B. Sahadeva Reddy, PS & Head, Agricultural Research Station, Anantapur and his team of scientists received Best Centre Award of AICRP on Dryland for the year 2021-22 during the 31<sup>st</sup> Annual Group Review Meeting of AICRP on Dryland Agriculture held at ICAR- Central Research Institute on Dryland Agriculture (CRIDA) on 2- 4 June 2022.
- Agricultural Research Station, Vizianagaram received Best performing AICRP Small Millets Centre Award for the year 2021-22 during the 33<sup>rd</sup> Annual Group Meeting of AICRPs on Small Millets held by ICAR- Indian Institute of Millets Research on 28-29 April 2022 through virtual mode. The Award was bestowed by Dr Trilochan



Mohapatra, Director General, ICAR, New Delhi.

- Acharya N.G. Ranga Agriculture University (ANGRAU) bagged the prestigious national award instituted by the ICAR. ANGRAU stood in first position in PG scholarships



category (AIEEA PG 2021) at the national level. 58 PG scholarships were bagged by the graduate students of ANGRAU. Dr A. Vishnuvardhan Reddy, Vice Chancellor ANGRAU, received the award from Shri Narendra Singh Tomar, Union Minister of Agriculture and Farmers Welfare in the Annual Vice Chancellors Conference held at NASC Complex, Pusa, New Delhi on 13 April 2022.

- Andhra Pradesh State Biodiversity Board (APSBB), Guntur organized International Day for Biological Diversity on 22 May 2022 at Yogi Vemana University, Kadapa with the objective of spreading awareness on biodiversity in the state. On behalf of ANGRAU, Dr A. Subbarami Reddy, PS & Director (Seeds) and Dr K. Gurava Reddy, PS & TS to Vice Chancellor received the A.P State Biodiversity Conserver Award for preserving various agricultural varieties/crops from Sri Amzad Basha, Deputy Chief Minister, Government of Andhra Pradesh.

### BAU, Ranchi

- Students from 40 agricultural universities of the country participated in 9 events of the Agri and Food Innovation Fest (Prakriti-2022) organized by Indian Agricultural Engineering Society, IIT, Kharagpur on an all-India level. During online competition, 7 students of the university won prizes in 4 events of this competition.

- Dr Komal Chandrakar, a Ph.D. degree holder student from the Department of Veterinary Extension Education of Faculty Veterinary Sciences of BAU received the best Ph.D. thesis award from Executive Council of Hindustan Agricultural Research Society, Agra during 4<sup>th</sup> National Award Ceremony – 2022 held at Agra in May 2022. Dr Komal Chandrakar presently working in Chhattisgarh State Veterinary Service.



### Dr RPCAU, Pusa

- Sukhet Model, conceptualized and developed by the University was conferred with second prize by India Universities and Institutions Network for Disaster Risk Reduction - National Institute of Disaster Management (IUIINDRR-NIDM). The award was given to the team of scientists headed by Dr Ratnesh Kumar Jha, Project Director, Centre of Advanced Studies on Climate Change, RPCAU Pusa who also received a certificate, plaque and an amount of ₹ 25,000 as a token of appreciation.
- Dr M. L. Meena, Sr. Scientist and Head Krishi Vigyan Kendra, Turki received Best Extension Scientist Award during International Conference on Agricultural Development: Its Challenges and Future needs -held on 9-11, April 2022 organized by S.K. Chaudhary Educational Trust, Krishi Vigyan Kendra, Madhubani, Bihar.
- Dr. Pradeep Kumar Ram was honored with Shri Lal Bahadur Shastri best Ph.D. Thesis Award-2020 and Best Oral Paper Presentation Award -2022 on the occasion of 2<sup>nd</sup> Annual Convention of Veterinary Internal & Preventive Medicine: Present Status and Futuristic Implications held on 6-7 May 2022 at NDUAT, Kumarganj, Ajodhya.

**Dr YSRHU, Venkataramannagudem**

- Dr YSRHU accredited as Grade “A” University by ICAR, from March 2021 to March 2026.
- Dr YSRHU received PG Scholarships 2021 Award (Second position) under Programme category Horticulture and Forestry on 13 April 2022 during Vice Chancellor Conference.
- Dr T. Janakiram, Vice Chancellor, Dr YSRHU received Life Time Achievement Award from SHRD in 2<sup>nd</sup> Horticulture Summit held at Navsari Agricultural University, Navsari on 27 April 2022.
- Dr YSRHU-Citrus Research Station, Petlur got accreditation and 2 stars rating for fruit nursery under the Scheme of National Horticulture Board, Ministry of Agriculture, Government of India for Acid lime and Sweet orange planting material production on 6 April 2022.
- Dr YSRHU – Citrus Research Station, Tirupati commercial nursery awarded with 3-star rating by the assessment team for accreditation, NHB under the scheme National Horticulture Board on 6 April 2022.

**DUVASU, Mathura**

- **Faculty members of DUVASU, nominated in National Advisory Committee for Animal Husbandry and Dairying Sector:** The Government of India constituted a National Advisory Committee for Animal Husbandry and Dairying sector to recommend, prescribe and advise policies relating to cattle and dairy development, feed and fodder, poultry, piggery, sheep, goat, animal health, other livestock etc. The National Advisory Committee will be chaired by Union Minister (FAHD) and co-chaired by MoSs (FAHD). Secretary (AHD) will act as esteem member of the committee along with Animal Husbandry Commissioner,

Additional Secretary, Joint Secretaries and Statistical Advisor of Department of Animal Husbandry and Dairying, GoI as members. Prof. P K Shukla Dean, College of Veterinary Science and A.H., DUVASU, Mathura, Uttar Pradesh was nominated as member National Advisory committee on Poultry (poultry expert representative) and Dr Mukul Anand, Assistant Professor, Veterinary Physiology, DUVASU, Mathura, Uttar Pradesh nominated as member National Advisory committee for Sheep and Goat (Expert representative).

**GADVASU, Ludhiana**

- Ms Prapti Sudan, a post graduate student of College of Fisheries, GADVASU won the Best Poster Presentation Award for her poster on –Evaluation of Antimicrobial Resistance in Inland Saline Shrimp Culture Areas with Special



Reference to *Vibrio Parahaemolyticus*– at the 1<sup>st</sup> Indian Fisheries Outlook 2022 on Priming Indian Fisheries in Attaining Sustainable Development Goals held at ICAR-Central Inland Fisheries Research Institute (ICAR-CIFRI), Barrackpore.

- Prof. Yashpal Singh Malik, Dean, College of Animal Biotechnology, has been selected for “Best Scientist Award” by the National Academy of Biological Sciences (NABS) in the field of Veterinary and Fisheries. The award shall be conferred upon him during the Annual Conference of the Academy to be held at Chennai in September 2022.
- National Academy of Veterinary Sciences (NAVS) conferred prestigious awards and

**Prof. Y. S. Malik**



membership award(s) to the scientists of GADVASU during its 20<sup>th</sup> Convocation held at Veterinary College of MAFSU, Nagpur:

- Dr Parkash Singh Brar, Director of Extension Education was conferred with the prestigious Fellowship Award for his significant contributions in the field of veterinary science.



Dr P. S. Brar

- Dr Mrigank Honparkhe, Principal Scientist-cum-Head, Department of Veterinary Gynecology and Obstetrics; Dr Nitin Mehta, Associate Professor, Department of Livestock Products and Technology; and Dr Y.S. Jadoun, Assistant Professor, Department of Veterinary and Animal Husbandry Extension Education were honoured with Membership Awards of NAVS.

- Dr Vikas Phulia working at S.A.S. Nagar (Mohali) was bestowed with the Young Scientist Award.



- **Fisheries Scientists bagged Bagful of Awards:** Scientists and students of College of Fisheries attended National Seminar on Contemporary Issues in Fisheries and Aquaculture, organized by G.B. Pant University of Agriculture and Technology in collaboration with Society of Life Sciences.



- Dr Vikash Phulia received the Award at Pantnagar and brought laurels to the University.
- Dr(s) Ajeet Singh, S.N. Datta and Prabjeet Singh (Assistant Professors) were conferred with Fellow of Society of Life Sciences (SLS) for their contribution in the field of fisheries.

- Dr(s) Abhed Pandey and Abhishek Srivastava bagged SLS Senior Scientist Award(s) in poster and oral presentation category, respectively.
- Mr Ranjeet Singh, a Ph.D. student received Best Poster and Young Scientist Award for his poster presentation on utilization of Shatavari as an aphrodisiac fish feed supplement for most widely cultured fish, common carp.
- Ms Deepa Bhatt, a Ph.D. scholar bagged the Young Scientist Award for her poster presentation on ameliorating efficacy of turmeric against aflatoxin toxicity in fish.
- Mr Sumit Rai, another Ph.D. student bagged second Best Poster Award for his work on phage cocktail development for control of bacterial contamination in fish fillets.

### KU, Gandhinagar

- Dr R. S. Ghasura, Assistant Professor, Department of VAHEE received Best Ph.D. Thesis Award in 4<sup>th</sup> SVAHE National Conference on Pluralistic Approaches for Livestock Development – An Extension Call during 6-8 May 2022, at CSKHPKV, Palampur (HP) for his outstanding research work on Risk perceptions of climate change, vulnerability and the livestock adaptation strategies by dairy farmers in South Gujarat, carried out during Ph.D. degree in the subject of Veterinary and Animal Husbandry Extension Education.
- Dr Nikhil S. Dangar, Assistant Professor, Department of LFC attended the International Conference of Society for Scientific Development in Agriculture and Technology on Innovative and Current



Advances in Agriculture and Allied Sciences during 12 to 14 June 2022 at Himachal Pradesh University, Shimla, Himachal Pradesh. Dr Dangar was awarded the best Ph.D.

Thesis award for the Thesis entitled Effects of non-genetic factors on semen production traits and candidate genes on sire conception rate in Mehsana buffalo and Kankrej cattle, which was submitted to the Department of Animal Genetics and Breeding under the guidance of Dr B. P. Brahmkshtri. Dr Dangar also got the Best oral paper presentation award during the above mentioned conference.



- Mr Zalavadiya Sunny Kumar Harsukh Bhai, a graduate passed from CoVSAH, KU, Junagadh received the Vice Chancellor's Gold Medal in 8<sup>th</sup> Annual Convocation of Kamdhenu University 2021-22 held at Gandhinagar on dated 24 June 2022. The award was given for being adjudged the best student of faculty of Veterinary Science & A.H. in BVSc & AH degree course.



## MAFSU, Nagpur

- Col. Prof. (Dr.) A. M. Paturkar, Vice Chancellor, MAFSU, Nagpur, received the ICAR First Position Award (2021-22) from Union Minister of Agriculture and Farmers Welfare, Government of India, Shri Narendra Singh Tomar under



Col. Prof. (Dr.) A. M. Paturkar receiving ICAR First Position Award (2021-22) from Union Minister of Agriculture, Shri Narendra Singh Tomar

Veterinary and Fisheries Science Category for PG Admissions.

- Best Outstanding Women Award:** Dr Mayura A. Gole, Assistant Professor, Department of Poultry Science, NVC Nagpur was felicitated with Best outstanding women award who are contributing in Animal Husbandry / Veterinary domain for socio-economic development of women 2022



Dr. Mayura A. Gole receiving award by the hands of Col. Prof. (Dr.) A. M. Paturkar

from Vice Chancellor Col. Prof. (Dr.) A. M. Paturkar on 30 April 2022 at Rajat Jayanti Sabhagruh, NVC Nagpur. The award is given by Government of India, Ministry of Women and Child Development, New Delhi.

- State Level Best University, Best NSS Co-Ordinator and Best NSS Volunteer Award to MAFSU, Nagpur:** State level National Service Scheme Award distribution ceremony was held at SNTD University, Mumbai on 25 April 2022. MAFSU, Nagpur received the Best University Award and Best NSS Co-Ordinator Award for the Year 2017-18. Mr Divesh Ginnare, NSS Volunteer from Nagpur



Col. Prof. (Dr.) A. M. Paturkar, receiving the Best University Award by the hands of Hon'ble Shri Uday Samant Ji, Hon'ble Minister of Higher & Technical Education, Maharashtra.

Veterinary College, MAFSU received State Level Best NSS Volunteer Award – 2021. Vice Chancellor, MAFSU, Col. Prof. (Dr.) A. M. Paturkar received the Best University Award from Shri Uday Samant, Minister of Higher and Technical Education, Maharashtra State. Dr Sandip Aakhare, the then NSS Co-Ordinator received the Best NSS Co-Ordinator award.



**MPUAT, Udaipur**

- Dr Narendra Singh Rathore, Vice Chancellor was awarded Life Time Achievement Award by SK Chaudhary Educational Trust, Madhubani (Bihar) and Fellowship by International Society of Noni Science, Chennai



for the year 2021 on the occasion of International Conference on Agricultural Development: Its Challenges and Future Needs held on 9-11 April 2022 for his outstanding contributions in the field of agriculture.

- MPUAT student Dr Ashish Pawar has received MITAC Accelerate Industrial Postdoc fellowship from Government of Canada for three years with an annual fellowship amount of 38,000 Dollars at University of Saskatchewan, Canada. He has done his post-graduation and doctorate degrees from Department of Renewable Energy Engineering, College of Technology and Engineering.
- Dr Meenu Srivastava, Dean, College of Community and Applied Sciences was nominated as member of VI Deans Committee and Convener of VI Deans Committee of Community Science Discipline constituted by ICAR, New for restructuring of course curriculum of B.Sc (Hons) Community Science in context with NEP-2020.

- In a glittering ceremony during Vice Chancellor's Interaction Meeting at Rajbhawan on 24 June 2022 Dr Narendra Singh Rathore, Vice Chancellor received the first "Chancellor Award" from Hon'ble



Governor of Rajasthan as MPUAT was adjudged the best performing university out of 28 state funded universities of Rajasthan. This award to MPUAT was declared in May 2020. On the basis of strict scrutiny of the facts and figures based on parameter laid out by Rajbhawan.

- Dr K.K. Yadav, Assistant Prof. Soil Science, Rajasthan College of Agriculture received Outstanding Achievement Award for his contributions in the field of Soil Science during IV International Conference on Innovations and Current Advancements in Agriculture and Allied Sciences organized by Society for Scientific Development in Agriculture and Technology during 12 to 14 June 2022, at Himachal University, Shimla.

**PAU, Ludhiana**

- Dr Parveen Chhuneja elected as Fellow of National Academy of Agricultural Sciences (NAAS) and National Academy of Sciences (NASI). Dr Nitika Sandhu awarded NASI young scientist platinum Jubilee in the field of Plant Sciences, Agriculture and Environment.
- Dr SK Chauhan recognized as Fellow of the Indian Society of Agroforestry, Jhansi.
- Dr RIS Gill was awarded gold medal of the Indian Society of Agroforestry, Jhansi.
- Dr Nitika Sandhu got SERB-Women Excellence award by SERB, DST, Government of India.
- Best Ph.D. thesis award 2022 to Ph D student Ms Anjana Rai during National Conference on Organic and Natural Farming in context to Indian Agriculture, held on 13-14 May 2022 at CSAUA&T, Kanpur.
- Best Oral Presentation at International Conference on Clinical Nutrition and Dietary Lifestyle for the paper entitled Augmentation

of mineral content, antioxidant activity and bioactive compounds using different drying techniques in Broccoli (*Brassica Oleracea*) microgreen sprinkler, authored by Pooja Bhatt, Sonika Sharma, Kiran Grover, Savita Sharma, Ajmer Singh Dhatt and Khushdeep Dharni. The International Conference was organized by Universal Society of Food and Nutrition (USFN) at Bangalore on 20-21 May 2022.

- Ms Ravneet Kaur, Ph.D (Botany) was awarded first prize in Poster presentation by ISSP North Zonal Seminar - 2022 organized by ICAR-Sugarcane Breeding Institute, Regional Centre, Karnal, Haryana.
- COAETian Innovators, a team of 25 members of 2019 batch (3<sup>rd</sup> year students) of College of Agricultural Engineering and Technology, Punjab Agricultural University, Ludhiana won the Runners-up position in the National Level Competition - 'TIFAN 2022'. TIFAN is a national level student activity in competitive form – Technology Innovation Forum for Agricultural Nurturing. The theme for this year's activity was development of a Self Propelled Onion Harvester. The Competition is organized by SAE India (Society of Automotive Engineers - India) and John Deere Limited, Pune.



PAU- Students Team

### PJTSAU, Hyderabad

- Staff Award:** Dr K. Madhu Babu, Professor and Head, College of Agriculture, Rajendranagar



received Braja Gopal Sharma memorial All India Best Extension Worker Award 2021 from SADHNA Society, Dr Y. S. Parmar University of Horticulture and Forestry, Nouni, Solan, Himachal Pradesh.

### SDAU, Sardarkrushinagar

- ICAR-CRIDA Best Dryland Farmer Award - 2022:** The Best Dryland Farmer Award-2022 was conferred to the NICRA farmer Shri Bhembhijhai Manjibhai Kuchavadiya during XXVII BIENNIAL workshop of ICAR-AICRPDA held at ICAR- CRIDA, Hyderabad on 2 June 2022, for his outstanding contribution in adoption and popularization of Castor + greengram (1:1) intercropping system and foliar spray of micronutrients, under guidance of Centre for Natural Resources Management (CNRM).
- The Best Innovative Farmer Award-2022 was conferred to the NICRA farmer Shri Revabhaji Kashnabhai Garasiya during 38<sup>th</sup> Foundation Day held at ICAR-CRIDA, Hyderabad on 25 April 2022 by the ICAR-CRIDA, Hyderabad for his outstanding contribution in adoption and popularization of *In-situ* moisture conservation (compartmental bunding) along with INM in pearl millet and *ex-situ* water harvesting through open well recharge and irrigations through drip in intercropping system, under guidance of All India Coordinated Research Project for Dryland Agriculture, CNRM, Sardarkrushinagar.



- Dr P. S. Patel received Dr. R. K. Patel Associate Scientist Award-2021 at state level seminar on 'Prakrutik Krushima Pak Sanrakshan' held at Anand Agricultural University, Anand, Gujarat held on 5 April



2022 organised by Plant Protection Association of Gujarat.



Dr Patel receiving the award

■ **Most Responsive AICRPDA Centre Award:**

All India Coordinated Research Project for Dryland Agriculture, CNRM, S.K.Nagar centre was awarded to the Most Responsive Centre in timely submission of the scientific,



technical and administrative information to Project Coordination Unit AICRPDA, ICAR-CRIDA, Hyderabad during the year 2021-22 among all AICRPDA Centers.

■ **Award of Cadets Welfare Society Fellowship:**

Ms Gopi D Rabadiya Senior Under Officer (SUO), NCC Sub unit, ASPEE College of Nutrition and Community Science belonging to 35 GUJ BN NCC Palanpur was awarded Cadets Welfare Society fellowship. She was one among the 9 cadets of Gujarat Directorate selected for the Cadets Welfare Society fellowship given to NCC cadets. She is also the only cadet to be awarded with the fellowship in the Sardarkrushinagar Dantiwada Agricultural University and 35 Unit NCC and Banaskantha district from senior division since long.



## SKNAU, Jobner

- SKN College of Agriculture, Jobner, COA, Fatehpur-Shekhawati, Sikar, COA, Lalsot, COA, Kumher, COA,



Navgaon and COA, Peethampuri received the Appreciation Certificate from Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education, Government of India for contribution in celebration of World Environment Day-2022.

## SKUAST, Jammu

- Dr Kamal Sarma, Professor, Veterinary Anatomy was awarded:

: With National Distinguished Professor Award, 2022 in recognition to superior performance in Veterinary Anatomy by IMRF, the International Multidisciplinary Research Foundation on 14 May 2022.

: With Best Veterinarian Award 2022 by The Science World, India on April 2022.

: With Fellow of Scholars Academic and Scientific Society Award, 2022 (An International Society for Academic & Scientific Integration) on 10 April 2022.

- Dr Jonali Devi, Prof., Veterinary Biochemistry was awarded:

National Distinguished Professor Award 2022 in recognition of the consistent superior performance in Veterinary Physiology by International multidisciplinary Research Foundation on 14 May 2022.

With the prestigious Fellow of Scholars Academic and Scientific Society Award 2022 by International society for Academic and Scientific Integration on 21 April 2022.

- Dr Anil Bhat, Assistant Professor (AEABM) was conferred with Best Community Mobilizer Award during National Seminar

held at SKUAST Kashmir on 26-28 May 2022 organized by Society for Community Mobilization, IARI, New Delhi.

- Dr Sushil Sharma, Prof., Agricultural Engineering was appointed as Chairman, ISAE Chapter of J&K, India Society of Agricultural Engineering.

### TANUVAS, Chennai

- Selvan S. Abishek, V year B.V.Sc. student of TANUVAS won the individual gold medal in the 45<sup>th</sup> Senior Tennikoit Championship 2021-22 tournament organized by Poornima University, Jaipur, Rajasthan from 31.3.2022 to 4.4.2022. He was also a part of Tamil Nadu team which bagged the national team (Gold) championship.
- Selvi J. Abinaya, I year student of TANUVAS won second prize in the Women championship at the 49<sup>th</sup> Senior National Carrom Championship held at Mumbai from 30.3.2022 to 4.4.2022.

### RESEARCH PUBLICATION (≥12 NAAS RATING)

### Dr YSPUHF, Solan

- Thakur M, Praveen S, Divte PR, Mitra R, Kumar M, Gupta CK, Usha K, Bansal R, Roy S, Anand A, Singh B, 2022. Metal tolerance in plants: Molecular and physicochemical interface determines the "not so heavy effect" of the heavy metals. *Chemosphere* 287 (Part 1): 131957. <https://doi.org/10.1016/j.chemosphere.2021.131957> (NAAS rating: 13)
- Verma ML, Sukriti, Dhanya BS, Saini R, Das A, Varma RS, 2022. Synthesis and application of graphene-based sensors in biology. A review. *Environmental Chemistry Letters* <https://doi.org/10.1007/s10311-022-01404-1> (NAAS rating: 15.03)

- Kumari S, Sharma A, Kumar S, Thakur A, Thakur R, Bhatia S K and Sharma A K. 2022. Multifaceted potential applicability of hydrotalcite-type anionic clays from green chemistry to environmental sustainability. *Chemosphere*, 135464 (IF: 8.943, NAAS Rating 14.943)
- Sharma A, Sharma R, Sharma M, Kumar M, Barbhui MD, Lorenzo JM and Mekhemar M. 2022. *Carica papaya* L. Leaves: Deciphering its antioxidant bio-actives, biological activities, innovative products and safety aspects. *Oxidative Medicine and Cellular Longevity*. 6: 1-20. (NAAS Score: 12.54)
- Semwal P, Painuli S, Abu-Izneid T, Rauf A, Sharma A, Daştan SD and Cho WC. 2022. Diosgenin: An updated Pharmacological Review and Therapeutic Perspectives. *Oxidative Medicine and Cellular Longevity*. 6: 1-17. (NAAS rating: 12.54)
- Sharma, Shweta, Bharti Shree, Ajit Sharma, Mohammad Irfan, and Pankaj Kumar\*. "Nanoparticle-based toxicity in perishable vegetable crops: Molecular insights, impact on human health and mitigation strategies for sustainable cultivation." *Environmental Research* (2022): 113168. (\*Corresponding author) - NAAS - 12.50).

### PAU, Ludhiana

- Kaur S, Dhanda S, Yadav A, Sagwal P, Yadav DB and Chauhan BS 2022. Current status of herbicide-resistant weeds and their management in the rice-wheat cropping system of South Asia. *Advances in Agronomy*. 172: 307-354. (NAAS rating 12.92).
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## OTHER HIGHLIGHTS

### AAU, Anand

- **Vasodhara 2k22:** Eighth Annual Day “Vasodhara-2k22” was celebrated at Vaso campus on 7 June 2022 under the presidentship of Vice chancellor Dr K. B. Kathiria. To make this occasion more

graceful, former Vice chancellor Dr A. M. Shekh as a chief guest and other university officers, Sarpanch shri of



Dr K. B. Kathiria, Vice Chancellor, AAU addressing the audience

Vaso, Rampur, Bamroli and Palana villages and donors of the both colleges were also present.

- The Training and Placement Cell (T & P Cell) of College of Agricultural Engineering and Technology, Godhra operates round the year to provide not only job opportunities to the final year students of B. Tech Agricultural Engineering but also internships/industrial trainings and skill development trainings to all the students of the college. 5 more students got appointed for Patson Foods India Pvt. Limited and Green Fibre India Private Limited. The entire process was carried out through Training and Placement Cell. Prior to this, 6 and 8 students had already got placed in Jain Irrigation Systems private limited and Captain Tractors Private Limited, respectively.



- Dr M. K. Jhala, Director of Research & Dean PG Studies, AAU, Anand visited Cornell University, Ithaca, New York, USA during 16 - 26 May 2022 to participate



Director of Research during his visit

in the Food & Agri Executive Management Program and Consultative Workshop for Course Development.



**Extension**

Progressive farm woman of KVK, AAU, Dahod, Smt Fulvantiben Hursinhbhai Mal was awarded the Best Innovative Farmer Award-2021, in the National Seminar on Synergetic Extension Approaches for Livelihood Improvement and Agricultural Development-2021 of Society for Extension Education of Gujarat organized during 24-25 June 2022 at JAU, Junagadh.



Progressive farmwoman receiving the award

**Students got success in IBPS-2022**

Sixteen students got success in the IBPS-2022 competition organized by the Institute of Banking Personnel Selection (IBPS). Out of these students, 15 students were selected for the post of Agriculture Field Officer and 1 student was selected for the post of Probationary Officer in various nationalized banks of the country.

**ANGRAU, Guntur****Vyavasaya Panchangam 2022-23 Released**

ANGRAU Vyavasaya Panchangam (Farmer's Almanac) 2022-23 was released by Sri Y.S. Jagan Mohan Reddy, Hon'ble Chief Minister, Government of Andhra Pradesh on the occasion of Sri Subhakruth Nama Ugadi



Celebrations held at the CM Camp Office in Tadepalli on 2 April 2022 in the presence of Smt Poonam Malakondaiah, Special Chief Secretary (Ag and Coop, Horti and AH) and Chief Commissioner, Government of Andhra

Pradesh; Dr A. Vishnuvardhan Reddy, Vice Chancellor, ANGRAU also present at the event.

**Dr RPCAU, Pusa****Release of technology**

A unique QR code developed by Dr S.P. Lal, Assistant Professor, Extension Education was released by the University Research Council. This code will be used for ensuring the quality of various products developed by the university. In this technology the thematic color-coded Hybrid Quick Response code was designed as QR code using 4 standardized encoding mode (numeric, alphanumeric, byte/binary and kanji) to store data efficiently. The softwares used to develop the QR code were Adobe Photoshop 2020, Microsoft Paint, Microsoft Power point. In addition, fusion technology was used to combine two dots among 36 dots in QR code. This QR code redirects users to extra information or promotional offers, which is very exciting/attractive for the customers.

**Dr YSPUHF, Solan**

Issued twenty-seven Weather Based Agro-advisory Bulletins through electronic and print media and SMS through *Mkisan* portal for farmers/orchardists and other end users on different agricultural management practices for Solan, Shimla, Sirmour and Bilaspur Districts of Himachal Pradesh which benefited more than 2.5 lakh farmers of the state. Advisory was also supplied on five WhatsApp group of Solan district.

**GADVASU, Ludhiana****Vet Varsity emphasizes to create a center of excellence on genome editing**

Prof. Jaswinder Singh of McGill University, Canada visited GADVASU to initiate a collaborative research work on Genome Editing

using Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR; pronounced as crisper) technology at the university. He said that the experts working in CRISPR at McGill will provide expertise, training, and support to CRISPR center of GADVASU working together for its success.



### **Egyptian scientist visited GADVASU**

College of Veterinary Science conducted a workshop under the World Bank funded Institutional Development Plan project. Professor Dr Saber Mohamed Abd-Allah, Professor and Head, Theriogenology Department, Faculty of Veterinary Medicine, Beni-Suef University, Egypt visited GADVASU and delivered a lecture on Reproductive Biotechnologies in Buffalo Reproduction.



### **Extension**

### **PUM Netherlands expert Mr Tjeerd Dijkstra visited GADVASU**

Mr Tjeerd Dijkstra, a senior PUM Netherlands expert visited GADVASU and had an interactive meeting with the University administration. Mr Tjeerd Dijkstra was on a 10- day visit at KVK Tarn Taran to guide district dairy farmers for better productivity of livestock for gaining higher returns. The possible remedial solutions of the identified problems related to dairy farming particularly mastitis, infertility and other related problems were



deliberated. The PUM expert stressed upon the importance of colostrum in the growth of the calf and also suggested to use colostrum meter on a regular basis at the farmers' dairy farms to check the quality of colostrum.

### **GBPUAT, Pantnagar**

### **Selection of university students in reputed companies**

A total of 37 students were selected by different companies through Directorate of Placement and Counselling of University for various jobs. The selected students will get an annual package of 4.25-10 Lakh.

Vice Chancellor, Dr Tej Partap, appreciated the efforts of the Director, Placement and Counselling and gave best wishes to the selected students. Director, Placement and Counselling, Dr Deepa Vinay informed that the directorate is making efforts in other areas as well and wishes for the success of maximum number of students.

### **KU, Gandhinagar**

### **Annual meeting of group of subjects (Animal Health and Animal Production)**



**Dr Ravikala presenting & Dr. Tank addressing in Annual meeting of Group of Subjects**

Under the chairmanship of Dr P.H. Tank, Principal and Dean, College of Veterinary Science and Animal Husbandry, Kamdhenu University, Junagadh, an annual meeting of the group of subjects (Animal Health and Animal Production) was at COVSAH on 25 April 2022. The meeting was coordinated by Dr U.D. Patel and Dr M.D.



Odedra, Conveners of both groups (Animal Health and Animal Production) and teachers of all departments were present in the meeting. The HoDs from the both groups of subjects presented their activities and achievements performed during the academic year 2021-22. Dr P.H. Tank appreciated the efforts made by the teachers of the college.

### Study tour organized for Polytechnic students

Dr J.B. Kathiriya, Assistant Professor, VPH, COVSAH, KU, Junagadh organized a study tour of polytechnic first year students at Agricultural Metrological Station, JAU, Junagadh on dated 5 April 2022 with objectives to get exposure in practical study for the subject of 'Introduction to Environmental Science' (ENVS-121) and to acquire practical knowledge regarding different instruments present at weather station. Polytechnic students got practical exposure of different weather instruments like, Rain Gauge, Stevenson's screen, Sunshine recorder, Anemometer, Pan Evaporimeter, Soil thermometer, etc. This study tour exposure will be helpful for students to understand the importance of weather condition in livestock production system.



### Virtual participation of Polytechnic students in Pariksha-Pe-Charcha-2022

*Pariksha Pe Charcha* the unique interactive program of Prime Minister, Shri Narendra Modi with the students, teachers and parents was telecasted on 1 April 2022. It is a movement driven by Prime Minister Narendra Modi's efforts to bring together students, parents,

teachers and the society to foster an environment where the unique individuality of each child is celebrated, encouraged and allowed to express itself fully. A total 51 NSS volunteers and staff members of Polytechnic in A.H., Junagadh actively participated in this program through online platform.



### KUFOS, Kochi

#### French delegation visits KUFOS

A delegation from the French Embassy in India visited KUFOS, Kochi on 23 May 2022. The delegation included Consul General of France, Lise Talbot, Attaché for Science and Higher Education, François-Xavier and France Campus Manager, Sabari Kishore. The team held talks with university authorities on co-operation of KUFOS with various French universities. The team also visited the hatcheries and instructional farms of KUFOS.



French delegation at KUFOS

### MPUAT, Udaipur

- The students of MPUAT participated and performed with excellence in the National Youth Parliament on Environment held on 16 April 2022. A total of 50 thousand students





participated in the event, out of which 135 were selected. It is a matter of pride that 6 of them were from MPUAT. Further, our student Ms Ami Sharma was given the charge of Speaker and Mr Jatin was made Minister of Water Resources. The Lok Sabha Speaker Shri Om Birla was the Chief Guest, and Shri Bhupendra Yadav, Central Minister was the Special Guest of the event.

- Book entitled Entomology Tutor: An Objective Entomology (Volume – I) by S. Ramesh Babu, was released.

### SKUAST, Jammu

- SKUAST-Jammu was granted Accreditation for a period of five years w.e.f 1 April 2021 till 31 March 2026 with overall score of 3.08/4 equivalent to the highest awarded Grade 'A' amongst the SAUs.

- National Fish Farmers' Day was celebrated under the DST project in collaboration with IDP (NAHEP). Group of farmers from different District of Jammu and Samba and students of SKUAST-Jammu attended the event.



- Two-day Entrepreneurship Programme on Start-up Opportunities for Profitable Livestock Farming was organized for Internee batch of BVSc and AH from 17 to 18 June 2022 under NAHEP-IDP.



- World Zoonosis Day, 2022 was celebrated at Faculty of Veterinary Sciences and Animal Husbandry, RS Pura campus.



This programme was sponsored by NAHEP, a world bank funded project of Indian Council of Agricultural Research.

- KVK Poonch conducted a 15 days certificate course on Integrated Nutrient Management (INM) for Input Dealers from 10 to 24 May 2022.



- Honey and other products testing Lab funded by National Bee Board under National Beekeeping and Honey Bee Mission worth ₹ 1.03 crore was inaugurated on 20 May 2022 by Shri Narender Singh Tomar, Union Minister of Agriculture and Farmers Welfare, Government of India.
- Exclusive SKUAST-Jammu Kisan Call Centre was launched with the dedicated phone number 1800-180-7196 so that farmers of Jammu region can directly get answers for their queries in Dogri, Pahari and Urdu languages.
- Celebration of World Earth Day 2022 was held on 22 April 2022 at SKUAST-Jammu, Chatha. The Theme of the event was – Invest in our Planet.
- Celebration of International Day of Yoga 2022 was held on 21 June 2022 in the Indoor Sports Complex of SKUAST-Jammu, Chatha. The Theme of the event was– Yoga for Humanity.

### UAS, Dharwad

#### Judicious Use of Fertilizers

Farmers have to use appropriate quantity of chemical fertilizers to get maximum returns said Associate Director of Extension Dr P. S. Hugar. He was speaking as Chief Guest of the function arranged for distribution of certificates of 15 days CCINM Certificate

Course at Staff Training Unit, UAS, Dharwad. Professor and Head, Staff Training Unit Dr Sunil Halakatti advised the input dealers to

pass on the information they have learnt in the course to farming community.

Also requested them to suggest

need based recommendations for farmers' problems. Presiding over the function State Nodal Officer (DESAI) Dr M. Gopal explained regarding CCINM and DESAI Courses and clarified the doubts of the participants. Certificates were distributed to 28 participants who have successfully completed the course.



Associate Director of Extension and Chief Guest Dr. P. S. Hugar distributing Certificates to the candidates. Dr. S. V. Halakatti and Dr. M. Gopal are also present.

## FUTURE PROGRAMMES

### AAU, Anand

#### 19<sup>th</sup> Annual Convocation of Anand Agricultural University

Anand Agricultural University will host its 19<sup>th</sup> Annual Convocation ceremony in upcoming months. The degrees will be awarded to the students who graduated from the institution during previous year. Meritorious students will be awarded medals and cash prizes during the event. Awards for Best Teacher, Best Research and Best Extension Worker will also be awarded to the faculties.

### CAU, Imphal

- Animal healthcare through Animal Health Camps and Vaccination programme.
- Capacity building of farmers, youths, and personnel from line departments.

- Awareness Programmes on Zoonotic diseases.

### Dr YSRHU, Venkataramannagudem

- Udyana Yatra – Horti Tourism in Dr YSRHU
- Certificate course on Organic farming in Horticultural crops
- Seminar on Lisianthus and Future flowers
- National conference on Tribal Horticulture

### DUVASU, Mathura

- DUVASU, Mathura approved two new Academic courses w.e.f. Academic session 2022-23 in its 87<sup>th</sup> Academic Council meeting. These are M.Sc./M.V.Sc./M.Tech in Biotechnology and Ph.D. in Biotechnology.
- **Celebration of Platinum Jubilee of College of Veterinary Science and A.H, DUVASU, Mathura:** On completion of 75 years of establishment of college of Veterinary Science and Animal Husbandry, earlier known as Mathura Veterinary College, DUVASU, Mathura will be celebrating its Platinum Jubilee and conclude its celebrations on 16<sup>th</sup> January 2023.

### KUFOS, Kochi

- Awareness Programme on Intellectual Property Rights (12<sup>th</sup> August 2022) under National Intellectual Property Awareness Mission (NIPAM)
- KSUM –KUFOS: Fisheries entrepreneurship technology event FETE (Pitch fest) 20 August 2022.
- Entrepreneurship skill development trainings and amp; workshops (Year-round)

### PAU, Ludhiana

The following crop varieties are in adaptive trials and ready for transfer:

- PTW-201-52 of new crop, Tarwanga
- PD-5824 of Coriander
- Punjab Himmat (PBL-234) and PBHL-56 (PBH-6) of Brinjal
- Potato clones KP/3-12 and KP/16-27-15

Besides, following programmes will be taken up:

- Vegetable Nutrition Garden for Urban and Peri-Urban Area using Agro-Waste media approved by REC and ready for transfer.
- Climate Change Awareness Programs will be organized at different locations in Punjab to sensitize farmers about the climate change, its impact and for adoption of resource conservation technologies as well as for planning the farm operations according to weather based Agromet Advisories.
- Integration of the new generation, high throughput techniques coupled with accelerated plant breeding (DH technology, MAS, genome editing, speed breeding, etc.) to complement the conventional wheat breeding strategies for quick mobilization of the genes/QTL's/traits of interest into elite agronomic backgrounds for development of wheat varieties catering to the newer mandates being thrown up due to climate change and government policies.
- Development of high forage yielding forage crop varieties/hybrids having better quality and low anti-quality components.
- Development of sweet sorghum varieties/hybrids with good quality high ethanol yield.

### **PJTSAU, Hyderabad**

- 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.

### **SKUAST, Jammu**

- Division of Microbiology is going to organize 7-day national training on Recent advances in microbial diagnostics w.e.f 23 to 29 August 2022.
- One-week training programme on “Big Data Analysis and Research Methods Using Statistical Softwares” under Institutional Development Plan, SKUAST-Jammu (NAHEP) is to be held on 26 July to 1 August 2022.
- Annual workshop on AICRP Honeybee shall be held at SKUAST Jammu on 8 to 9 September 2022.

## **NEW VICE CHANCELLORS**

### **DUVASU, Mathura**

#### **Prof. A. K. Srivastava**

#### **Prof. A.K. Srivastava took over the charge of Vice Chancellor of DUVASU, Mathura**

Prof. (Dr) A.K. Srivastava, a distinguished Veterinarian and Animal Scientist, has joined as Vice Chancellor, DUVASU, Mathura on June 4 2022. Prof. Srivastava is the alumni of College of Veterinary Science and A.H., earlier known as Veterinary College, Mathura. He did his graduation and post-graduation (Veterinary Pharmacology) from College of Veterinary Science, Mathura and obtained Ph.D. from Punjab Agricultural University (PAU), Ludhiana and Post Doctorate Fellowship from Institute of Toxicology, Munchen, Germany. Besides, Prof. (Dr) Srivastava has also been honoured with





Degrees of Doctor of Science (D.Sc. Honoris Causa) from DUVASU, Mathura and NDVSU, Jabalpur.

Before joining DUVASU, Mathura, he served as Chairman, Agricultural Scientists Recruitment Board (ASRB), DARE, Ministry of Agriculture, GoI, New Delhi. Earlier he also served as Member ASRB (Animal Sciences); Director and Vice Chancellor, ICAR-National Dairy Research Institute, Karnal; Dean Faculty of Veterinary Science and Animal Husbandry and Director Resident Instructions & Dean PGS at Sher-e-Kashmir University of Agricultural Sciences & Technology (SKUAST-J), Jammu; Head of the Department of Veterinary Pharmacology and Toxicology and Controller of Examinations at PAU, Ludhiana.

Prof. Srivastava is President of National Academy of Dairy Science (India), Patron of Indian Dairy Association, President of Association of Mastitis and Probiotic Association of India. Earlier, Prof. Srivastava served as Vice President and Secretary of National Academy of Agricultural Sciences (NAAS). He was Chairman of Indian Dairy Association and FAD 19, Bureau of Indian Standard (BIS), GoI and Member of International Dairy Federation. Dr Srivastava is Founder Authority Member of *Food Safety and Standard Authority of India (FSSAI)*. He was also President of Indian Society of Veterinary Pharmacology and Toxicology,

Prof. Srivastava is a distinguished Member of National Academy of Sciences and Fellow of National Academy of Agricultural Sciences (NAAS), National Academy of Dairy Sciences (NADS) and National Academy of Veterinary Sciences India (NAVSI). He is Chairman R&D Committee of Ministry of Food Processing Industries GoI; Member, Board of Governing Council of Agriculture Skill Council of India, Ministry of Skill Development GoI; and Member Advisory Committee of Indian Institute of Packaging, Ministry of Commerce and Industries, GoI. He is Member, Board of Trust for Advancement of Agricultural Sciences. Earlier Prof. Srivastava has also served as

Secretary, Vice President and President of Indian Agricultural Universities Association, Chairman DBT Task Force on Biotechnological Approaches for Food and Nutritional Security, and also of Task Force on Animal Biotechnology. He has also served as Member Governing Board of National Institute of Animal Biotechnology, DBT, Government of India.

He has been decorated with numerous prestigious awards and honours including ICAR Jawaharlal Nehru Award, International NOCIL Award, National Alarsin Awards in 1987-88 and in 1999-2000, ASET Gold Medal, German Academic Exchange Award, Gold Medals of Indian Science Congress Association, National Education Award 2016 and many more. He has been conferred the Life Time Achievement Award by the Indian Society for the Study of Reproduction and Fertility, Society for Community Mobilization for Sustainable Development and Indian Society of Buffalo Development. He is recipient of Dr B.D. Garg outstanding Pharmacologist Award, Dr V. Kurien Memorial Award, Chellappa Memorial Oration Award, Mansinghbbhai Memorial Oration Award, Dr Sunderasan Memorial Award, Prof. S.C. Mandal Memorial Oration Award, Dr Rao Memorial Oration Award, and Prof. S. Kannaiyan Memorial Award by National Academy of Biological Sciences. Prof. Srivastava was also Chairman of Working Group of Planning Commission on Animal Husbandry and Dairying for XII Five Year Plan, and Chairman for Mid Term Evaluation of XI Five Year Plan. He led the DST-India delegation to New Zealand. He also represented India and was Chairman/Member of Indian scientific delegation to Kansas University, USA, Belgium, Dubai, Ethiopia, Pakistan, Sri Lanka, Hong Kong, Nairobi, UK, Australia, New Zealand, Bangkok, Michigan State University, USA and many more countries. He has more than 250 research papers 10 books and 12 National Policy Papers to his credit, and has guided more than 25 PhD and post graduate students.

**Dr YSPUHF, Solan****Prof. Rajeshwar Singh Chandel**

Vice Chancellor, Dr YS Parmar University of Horticulture and Forestry, Nauni.

Professor Rajeshwar Singh Chandel assumed the charge of Vice Chancellor of Dr YS Parmar University of Horticulture and Forestry (YSP UHF), Nauni (Himachal Pradesh) on 9 May 2022. Prof. Chandel is a noted entomologist with over two decades of experience in teaching, research and extension.



Born on 22 July 1967 in Ghumarwin of district Bilaspur, Himachal Pradesh, Prof. Chandel completed his BSc in Agriculture and MSc in Entomology from CSK HPKV, Palampur and doctorate in Entomology from YSPUHF, Nauni. Professor Chandel started his career as a Sr. Research Fellow in April 1993 in Department of Entomology at YSPUHF and later went on to serve the university in various capacities like Seed Research Officer/Scientist (Entomology), Extension Specialist (Entomology) at KVK Chamba (HP), Principal Residue Analyst, Associate Director (Research and Extension) and Principal Scientist cum Head- Regional Horticultural Research and Training Station and KVK, Reckong Peo in District Kinnaur and Joint Director of Research at the main campus. He also served as the first Executive Director of the Himachal Pradesh government's ambitious *Prakritik Kheti Khushhal Yojna* from 2018 to 2022, and is credited with the success of this program in the state.

Professor Chandel has been associated with more than 20 National/State-funded research projects in the capacity of Team Leader/Coordinator/ Principal Investigator/ Nodal Officer and Co-Principal Investigator. He has attended Advanced Course on Teaching in Agriculture (2002), at the Centre for Food and Environment, Feldafing, Bavaria, Germany. He

was a visiting Scientist at Vineland Research Station, University of Guelph, Canada during 2002-03 and has also visited Malaysia, Canada, Germany, Australia, Hungary, Austria, Italy for presentations of papers and participation in workshops and symposiums. Professor Chandel is a member of the ICAR Society's General Body and Governing Body. He is also a member of the National Advisory Committee for the promotion of natural farming in the country. Besides, he has served as a member of various committees i.e. ICAR Quinquennial Review Team (QRT)- All India Coordinated Research Project on Agroforestry (2013-18), Round Table Meeting on Current challenges in the agricultural sector and potential approaches for addressing them, to present the Experience of SPNF in Himachal Pradesh, organized by NITI Aayog on 17 Dec 2019 at New Delhi; ICAR National Committee for Empirically validating the results of SPNF model, constituted by Director General, ICAR, New Delhi (2019-20); Interface Meet of International Pollinators Experts on 1-2 Feb 2018 at UHF Nauni; National Expert Committee to review the use of neonicotinoid pesticides registered in India, constituted by Ministry of Agriculture, GoI, New Delhi (2012-2014). He has over 200 publications to his credit in international and national journals. Professor Chandel has also been conferred with many honours and awards by the government and other agencies.

**The IAUA thanks and congratulates the following Vice Chancellors for support to IAUA and successfully completing their tenures during April-June 2022:**

- **Dr A. S. Dhawan, VC, VNKV, Parbhani**
- **Dr M. B. Chetti, VC, UAS, Dharwad**
- **Dr R. C. Srivastava, VC, Dr RPCAU, Pusa**
- **Dr Pawan Kumar Agrawal, VC, OUAT, Bhubaneswar**
- **Dr G. K. Singh, VC, DUVASU, Mathura**