



IAUA NEWS

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NEW TECHNOLOGIES

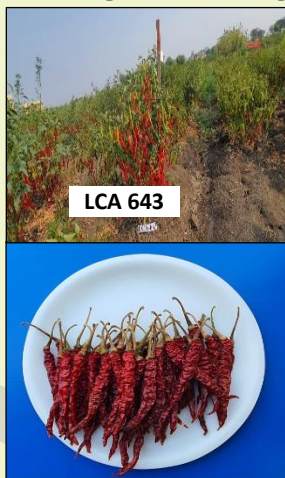
VARIETIES/HYBRIDS RELEASED

**Dr Y.S.R. Horticultural University,
Venkataramannagudem**

Chili

LCA-643: Duration, 180-190 days; 58-60q/ha dry chili yield; 300-325 q/ha green chilli yield.

Plants, semi erect, good branching; fruits, long, bold; medium green, dark red on ripening; ripe pod, shiny and attractive; highly pungent; dry pod highly wrinkled, high colour; suitable for green chili as well dry chili (Byadgi segment). This variety is proposed for first year of minikit testing during the year 2021-22.



Odisha University of Agriculture and Technology, Bhubaneswar

Nine varieties of various crops, suitable for cultivation in the state, were released vide letter no. 24339 dated 09.08.2021 of Directorate of Agriculture and Food production, Odisha. Rice, groundnut, sugarcane, little millet and sesame varieties were developed by the scientists of the University. The details of the varieties are detailed below.

Rice

Kalinga Dhan 1204: Semi-dwarf plant stature; suitable of aerobic and irrigated medium land conditions; plant height 95 cm, duration of 125



days; average yield 4,318 kg/ha; medium slender grain type; excellent cooking quality.

Kalinga Dhan 1501: Suitable for semi-deep water and lowland conditions; plant height 110 cm; duration of 155 days; average yield 4,278 kg/ha; short bold grain type.



Kalinga Dhan 1502: Suitable for semi-deep water and lowland conditions; plant height 122 cm; duration of 155 days; average yield 4,711 kg/ha; short bold grain type.



Kalinga Dhan 1401: Semi-dwarf plant stature; suitable for rainfed and irrigated medium land conditions; plant height of 96 cm; duration of 142 days; average yield 4,923 kg/ha; medium slender grain type; excellent cooking quality.



Kalinga Dhan 1205: Semi-dwarf plant stature; suitable for rainfed and irrigated medium land conditions; plant height 112 cm; duration of 132 days; average yield 5,177 kg/ha; medium slender grain type; excellent cooking quality.



Groundnut

Kalinga Groundnut 101: Matures in 115-120 days during *kharij* season and 125-130 days during *rabi* season; tolerant to leaf spot, rust and drought; average yield 16-18 q/ha (*kharij*) and 22-24 q/ha (*rabi*); kernel medium bold with tan colour; and 100 kernel weigh 46 g; shelling percentage, 72%; oil content, 50%; leaves remain green up to harvest and can be used as fodder.



Little millet

Kalinga Suan 217: High yielding variety having average grain yield of 1,540 kg/ha; duration of 117 days; can tolerate dry spell of 15 days at vegetative stage; and up to 10 days at reproductive stage; dual purpose i.e., for grain and fodder; tall (130 cm); having large panicles; medium bold, lustrous light grey grains; non lodging, non-shattering characters can help in harvesting operation; resistant to brown spot; moderately resistant to banded blight *Cercospora* leaf spot disease ; and moderately resistant to shoot fly.



Sesame

Kalinga Sesame 3-1: Average seed yield 738 kg/ha; potential seed yield, 600-1,000kg/ha; medium maturity duration (79-87days) ; medium size seed; seed coat colour cream; oil content, 47- 52%; can be grown in rainfed coastal ecosystem during *kharij* season; resistance to *Alternaria* leaf spot, moderately resistance to *Macrophomina* stem



and root rot, powdery mildew and *Cercospora* leaf spot; moderately resistant to leaf roller and capsule borer.

Sugarcane

Kalinga Sugarcane 346: Early maturing (10 months duration) variety; average cane yield 112.66 t/ha; sucrose content 17.27%; fiber content 13.88%; juice percentage 54%; sugar recovery 13.91 t/ha; suitable for jaggery production; good ratooner and suitable for planting during November to mid of March; non-lodging type, free trashing and non-flowering type; moderately resistant to red rot and smut; field resistance to early shoot borer, internode borer and scale insect; tolerant to waterlogging and moisture stress condition; cane height 272 cm; and single cane weight about 1.2 kg.



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

Lentil

Jammu Lentil 71: Yield potential of 16-18 q/ha ; 50.7% superiority of higher grain yield over check variety PL 406; 12-15 days earlier in maturity over check variety PL 406; matures in 140-145 days; resistant to diseases like wilt, root rot and also resistant to pod borer and aphids; Microsperma seeds, light brown in colour with pink cotyledon .; 24% protein content; lodging



resistant due to dwarf plant stature of 40-50 cm; recommended for U.T. of Jammu and Kashmir (released yet to notified by CVRC)

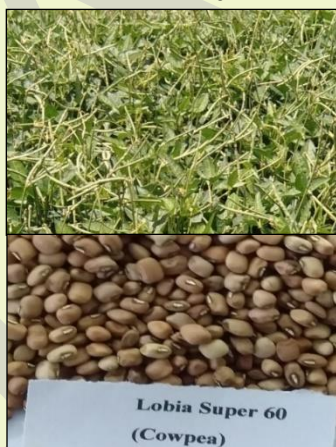
Jammu Lentil 144: Maturity- 122-125 days; yield potential 16-16.5 q/ha; early in maturity by 25-30 days over regional check PL 406; 17.21% higher grain yield over regional check PL 406; field resistant to wilt, root rot, pod borer and aphids; suitable for rainfed ecology of Jammu region; seeds microsperma type and light brown; high protein content (24 %); lodging resistant due to dwarf plant stature of 50-60 cm; recommended for U.T. of Jammu & Kashmir.



Cowpea

Jammu Lobia Super 60 (Lobia Super 60):

Extra early variety, matures 25-27 days earlier as compared to local check; superiority of grain yield over local check 44 to 50% and grain yield potential 12.0-12.5 q/ha; field resistant to YMV, *Fusarium oxysporum* and pod borer; light brown colour grain; medium size, 1,000 grain weight 120 - 130 g; lodging resistant due to dwarf plant stature; synchronous maturity with determinate growth habit; no pod shattering; 1,000 grain weight 120-130 g; and seed size, medium; recommended for U.T. of Jammu & Kashmir.



University of Agricultural Science, Bengaluru

Groundnut

GKVK 27: Suitable for both *kharif* (June-July) and summer (December -January) sowing; duration of 110 to 115 days; yields 30 to 32 q/ha under protective irrigation; bold seeds, light brown; high water use efficiency; resistant to leaf rust and moderately resistant to late leaf spot; recommended for Karnataka ACZ 5.



Cowpea

KC-8 (KBC -11): Medium duration variety, matures in 80 to 85 days; suitable for sowing in *kharif* (July-August) or late *kharif* (September) and January -February; seeds are medium bold and light brown; yields 13 to 14 q/ha under protective irrigation; recommended for Karnataka ACZ 5.



Forage cowpea

M.F.C-09-3 (M.F.C-3): Wider adaptability; responds to increased phosphorus; green forage yield, 260.7 q/ha and dry matter yield, 52.8 q/ha; resistant to Yellow Mosaic Virus disease, rust and leaf spot diseases; possesses high *in-vitro* dry matter digestibility (IVDMD) (61.07 %) with seed yield of 4.91q/ha; L/S ratio of 0.78 with high per day GFY, DMY and CPY; recommended for Karnataka ACZ 5 & 6.



MACHINE DEVELOPED

University of Agricultural Science, Bengaluru

Tractor drawn automatic seed-cum-fertilizer drill for intercropping/ monocropping system of multi-crops

Salient Features: Monocropping/ intercropping system of multi-crops improved tractor drawn seed-cum-fertilizer drill developed by the scientist of Dryland Agricultural Project, UAS, Bengaluru. Monocrops like finger millet, pigeon pea, groundnut, soybean, field bean, horse gram, cowpea, kodo millet, foxtail millet, bajra, jowar, maize etc., seeds could be sown by this improved seed drill. Inter cropping system such as 10 rows of groundnut with 2 rows of pigeon pea (10:2) and 10 rows of finger millet with 2 rows of pigeon pea (10:2) can be taken up by this. This seed drill is also found suitable to take up strip cropping like 21 rows finger millet and 21 rows field bean/cowpea/horse gram. This method of sowing helps harvesting by using combined harvester. Strip cropping system helps conserve more moisture in runoff and runoff resistant crop. This improved seed drill can be driven using 35 to 50 hp tractor. The cost of improved seed drill is Rs 95,000.

Modified Tamarind De-seeder

Salient Features: A prototype tamarind de-seeder operated by a 3 hp electric motor has been developed. The capacity of the machine is 100 kg/h, and the deseeding efficiency is over 90%.

Dehuller for Millets

Salient Features: Prototype small millets dehuller has been developed based on abrasive principle. It is operated by a 5 hp electric motor and it can dehull all 6 small millets. The dehulling efficiency of >95% was observed for

most small millets, except for brown-top millet for which it was about 75%.

PRODUCTS

Guru Angad Dev Veterinary and Animal Science University, Ludhiana

Protein and Fiber Enriched fish Biscuits

Salient Features:

- Supplements fibre rich biscuits with Fish Protein Concentrate (FPC) extracted from carp fish (*Labeo rohita*).
- The combination of FPC with two fibre sources was prepared using 'Response Surface Methodology'.
- Protein and fibre rich biscuits with added health benefits.

Area of adoption: Pan India

PACKAGE OF PRACTICES

Dr Y.S.R. Horticultural University, Venkataramannagudem

Crop Production

- Among the different inter crops studied, Marigold as inter crop in cashew-based cropping system during the initial years of cashew plantation has recorded the highest yields.
- The treatment combination of 100 % N&K + $\text{FeSO}_4 - 0.2\%$ + $\text{ZnSO}_4 - 0.2\%$ has consistently performed well and recorded significantly highest herbage yield of (12.44t/ha) in curry leaf. 65kg-N/ha and 50 kg-K/ha was applied through fertigation in 10 split doses.
- Application of 75% recommended dose of fertilizers (RDF) through drip at weekly interval up to 2 months (8 splits) is beneficial for getting higher yields and more cost benefit ratio in onion cv. Agri found

Light Red (recommended dose of fertilizer is 150 N: 60 P: 110 K kg/ha).

- For Ambebahar crop in sweet orange application of RDF in five splits i.e., 225:140 g N and P₂O₅ along with 8 kg neem cake and 40 kg FYM during January-February at flowering and fruit setting stage, 225:122.5 g N and P₂O₅ during March-April at fruit setting and marble size fruits, 300:87.5:120 g N: P₂O₅: K₂O during May-June at lemon size fruit development stage, 140 g K₂O during July-August at fruit size enlargement, 140 g K₂O during September at fruit maturity stage one month before harvesting followed by rest period (without fertilizers) during November-December months was found consistently superior with respect to fruit yield (374 fruits/plant, 56.80 kg/plant and 15.21/ha) along with best fruit quality parameters (TSS:11.050 Brix with 0.63% minimum acidity and high TSS acidity ratio), highest benefit cost ratio (1.85) and maximum shelf life (20 days).

Crop Protection

- For control of cashew stem and root borer, swabbing and drenching of Imidacloprid 17.8 SL @ 2ml/l after chiseling and removal of the grub (post extraction prophylaxis) was effective.
- Spraying of Propargite 57EC @ 1 ml/l or Spiromesfen 240SC @ 0.39ml/l at 15 days interval at fruit formation (within 60 days of fruit set) reduces mite damage on leaves and fruits, thereby enhances the number of marketable fruits in citrus.
- Various low cost media viz., rice broth, starch, vegetable waste, rice husk, coir pith, broken maize grains, sorghum grains and bajra grains were evaluated for successful low cost production of entomopathogen *Isaria fumosorosea* against rugose spiraling white fly at HRS, Ambajipeta. Among all the media tested rice broth and starch were found to be the promising media supporting *I. fumosorosea*, and can be alternatively

used in addition to broken rice grains being used at present.

- Among the treatments, Azardirachtin 5 % EC and HMO @ 5ml/l (horticultural mineral oil) recorded lowest green mite population of 0.80 and 0.74 mites/leaf followed by Neem soap @ 10g/l and Pongamia soap @ 10g/l, that recorded 1.02 and 0.94 mites/leaf, which were on par with each other.

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

Crop Production

Division of Agronomy developed the package and practices for three newly released Basmati varieties of SKUAST-Jammu, and the same was sent to Directorate of Extension for incorporation in the University Package

Protection of Goats

Economical chemoprophylactic regimen recommended for protection of goats against goat warble fly infestation

Based on the finding of the immune-surveillance and chronobiology of goat warble fly, the use of economical chemo-prophylactic regimen (only

costing Rs 1/animal) i.e., Ivermectin mini dose (@ 5ug/kg body weight), is being

recommended for application in early July to achieve eradication goal.



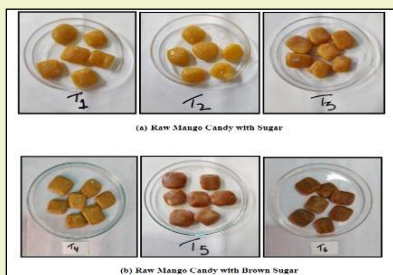
Chemoprophylaxis for warble fly in goats

Processing

Development of Candy from Unripe Mango

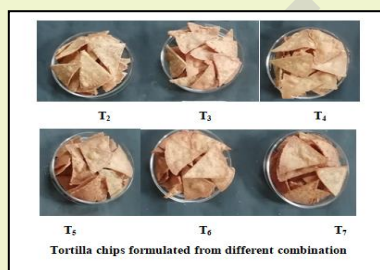
Raw (unripe) mango fruit can be processed into fruit candy using 100g mango pulp, 4g gelatin,

3g pectin and 40g sugar. The prepared candy is rich in ascorbic acid (29.43mg/100g), calcium (26.47mg/100g), phosphorus (7.12mg/100g), total carotenoids content (61.04 µg/100g) and antioxidant activity (15.54%). The candy can be stored at ambient conditions for 90 days.



Stabilization of Wheat Bran and its Utilization for Development of Fibre Enriched Tortilla Chip

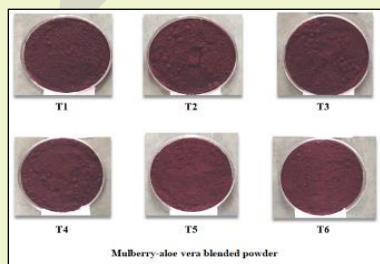
Wheat bran can be stabilized using microwave heating (3 min at 900 Watts and 2,450 MHz). Nutritious and fibre enriched tortilla chips can be developed by addition of 20 % microwave stabilized wheat bran to 80% corn masa, which resulted in higher crude protein (9.98%), ash (2.88%), crude fibre (3.04%), calcium (198.59mg/100g), phosphorus (275.39mg/100g), magnesium (127.42mg/100g), total dietary fibre (18.63%), total phenolic content (132.90mg GAE/100g) and antioxidant activity (56.31%) as compared to control.



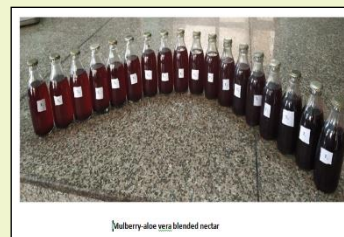
Utilization of Unexplored Mulberry Fruit into Blended Value Added Products

Six mulberry varieties were evaluated for various physico-chemical characteristics.

Among them S-146 having maximum TSS (16.62 ° Brix), ascorbic acid 19.73mg/100g, total sugar 12.78%, crude fibre (1.85%), total anthocyanin (102.55mg/100g) and total phenol content



(188.89 mg/100 g) and used for development of blended value added products with aloe vera i.e nectar, leather and powder. On the basis of sensory evaluation (70:30: Mulberry: Aloe Vera) was found to be the best treatment and it had 15.55°Brix, 0.23 % acidity, 8.62 % reducing sugar, 12.99 % total sugar, 23.98 mg/100g anthocyanin and 31.17 mg GAE/100g total phenolic content in blended nectar. It contained 17.27 % moisture, 6.02 mg/100g ascorbic acid, 2.11 % crude fibre, 50.95 mg/100g anthocyanin and 90.71 mg GAE/100g total phenolic content in blended leather. It comprised 8.94 % moisture, 9.33 mg/100g ascorbic acid, 60.10 mg/100g anthocyanin, 114.23 mg GAE/100g total phenolic content, 0.38 g/ml bulk density, 3.62 rehydration ratio and 20.72 % flowability in blended powder. The best acceptable blended nectar, leather and powder (70: 30: Mulberry: Aloe Vera) retained their quality throughout the storage period of six months with the microbial count of specific limits.



University of Agricultural Sciences, Bengaluru

Crop Production

- Suitable planting geometry and intercrops in top feeds for higher green forage yield and quality.
- Cultivation of top feeds like Sesbania, Erythrina and Drum stick with a row spacing of 6 ft. and 1.5 ft. from plant to plant recorded additional green forage (67.1 q/ha), dry matter (16.7 q/ha) and crude protein yield (2.9 q/ha) with additional net returns (Rs 14,000/ha).

- Cultivation of 2 rows B × N hybrid with a row spacing of 3 feet and 2 feet from plant to plant in between rows of top feeds recorded additional green forage yield (429.6 q/ha), dry matter (77.5 q/ha) and crude protein (7.96 q/ha) yield with additional net returns (Rs 52,100 /ha).
- Effect of multi-micronutrients mixture application on growth and yield of aerobic paddy: Application of soil grade micronutrients mixture (Fe+Mn+Zn+B) @ 5 kg/acre at the time of transplanting and spraying of foliar grade micronutrients mixture (Fe+Mn+Zn+B) @ 1.00 % at 20 and 40 days after transplanting recorded higher grain yield of 31.5 q/ acre with B:C ratio of 1.6:1 in aerobic paddy.
- Utilization of slag-based gypsum in groundnut cultivation: Application of RDF + 625 kg slag-based gypsum/ha as 50% at the time of sowing + 50% at 30 days after sowing recorded higher pod, haulm, oil and protein yield of groundnut. There was increase in pod, haulm, oil and protein yield of groundnut by 11.40, 19.06, 18.96 and 14.38 %, respectively, with the application of 625 kg SBG/ha (50 % at sowing + 50 % at 30 DAS) over package of practice (POP: RDF + 500 kg commercial gypsum/ha at 30 DAS). Higher benefit cost ratio (3:1) was noticed in the treatment which received RDF + 625 kg slag based gypsum/ha as 50% at the time of sowing + 50% at 30 DAS when compared with POP (2.70:1) applied treatments.
- Evaluation of suitable intercrops in tree mulberry for additional income: Growing determinant type of cowpea as an intercrop in tree mulberry garden, where the space 10×10 ft or 9×9 ft given from plant to plant and row to row gives additional income and increase the profitability of mulberry cultivation. It also improves the soil fertility of tree mulberry garden.

Crop Protection

- Management of fall armyworm (*Spodoptera frugiperda*) in maize: For management of fall armyworm (*Spodoptera frugiperda*) in maize when infestation is noticed, apply spinetoram 11.7 SC @ 0.5ml or emamectin benzoate 5 SG @ 0.4g or chlorantraniliprole 18.5 SC @ 0.4g or thiodicarb 75 W.P. @1g/liter of water to the infested leaf whorl. Since larvae of fall armyworm feed inside the leaf whorl, spray should be targeted only to leaf whorl.
- Management of rodents in paddy: Place snap traps @ 50/ha (continuously 3 nights) at tillering stage and apply 2 % Bromadiolone CB (0.25 %) bait in burrows and bunds at panicle formation stage of the crop. For preparation of 1.0kg poison bait, add 450g rice, 450g ragi, 50g groundnut kernels, 50g groundnut oil and mix thoroughly with 20g of Bromadiolone powder. Prepare paper pockets containing 10g poison bait to be placed in field.
- Management of blast disease in rice: Isoprothiolane 40%EC @ 1.5 ml/l was effective in managing the leaf blast disease by recording 65.2% disease reduction and 26.06 % increased yield with cost benefit ratio 1.92. Spraying of isoprothiolane 40%EC @ 1.5 ml/L at 5% panicle emergence stage was effective against neck blast by recording 80.05% disease reduction and 80.74 % increased yield with benefit cost ratio 1.98:1.
- Management of Alternaria leaf spot disease in cotton: Foliar spray with Pyraclostrobin 20% WG @ 500 g/ha has reduced the disease incidence of 64.1 % and increased the yield of 187 % over the untreated control and recorded the B:C ratio of 2.56:1. Hence Pyraclostrobin 20% WG @ 500 g/ha is recommended to manage the Alternaria leaf spot disease in cotton.
- Management of downy mildew disease in maize: Seed treatment with Metalaxyl M 31.8 ES @ 2.4 ml/kg of seed and foliar spray

with Azoxystrobin 18.2% w/w + Difenconazole 11.4% w/w SC @0.1% at 30DAS reduced the disease incidence of 98.3 % and increased the yield up to 4.8 times over the untreated control and recorded the B:C ratio of 1.71:1.

- Management of pigeonpea sterility mosaic disease: Fenpyroximate 5% E.C. @1 ml/l at 25 and 40 days after sowing controlled the disease up to 41% and the increase in yield was 67% compared to the unsprayed control with the B:C ratio of 2.08:1.
- Management of Turcicum leaf blight of maize: Spraying twice one at 35 and 50 DAS of Azoxystrobin 18.2% w/w + Difenconazole 11.4% w/w SC @ 0.10% should be taken.
- Management of mulberry leaf roller: When the mulberry garden is infested by mulberry leaf roller, *Diaphania pulverulentalis* (Hampson), spray Chlrorfenapyr 10% SC 1.5 ml/ l of water. Use mulberry leaves for silkworm rearing only 20 days after the spray of insecticide.
- Management of mites in mulberry: Spray propargite 57EC @ 1.5 ml/litre of water by drenching all the apical leaves of mulberry plant. If the infestation is severe, repeat the same spray at an interval of seven days from first spray. However, the mulberry leaves sprayed with propargite 57 EC @ 1.5 ml/ l of water are safe to silkworm after 16 days of last spray.

Apiculture- DQS

- Adoption of double queen system (DQS) for management of *Apis cerana* would minimize absconding and enhance foraging activity with higher honey yield and fasten growth and development of colony. This technology is also helpful in colony multiplication.
- Brood area was higher in DQS (274.65 inch²) as compared to that of 166.97 inch² in control.

- Honey area was higher in DQS (217.73 inch²) as compared to that of 154.15 inch² in control.
- Pollen area was higher in DQS (36.13 inch²) as compared to that of 21.67 inch² in control.

TEACHING

Guru Angad Dev Veterinary and Animal Science University, Ludhiana

New Courses Introduced

Certificate and Short Courses in Fisheries

College of Fisheries introduced four certificates courses of six months duration, and two short courses of four weeks duration each to have skilled human resource for self-employment with enhanced professional competency for placement in public as well as private sector. These courses will be offered during the academic year 2021-22, as per details given in University Prospectus.

Teaching Infrastructure Developed

Union Agriculture Minister inaugurates Virtual Classroom Facility

Shri Narendra Singh Tomar, Union Minister of Agriculture and Farmers' Welfare virtually inaugurated the Virtual Classroom and 'Agri-Diksha Web Education Channel' at GADVASU under National Agricultural Higher Education Project. The Union Minister stressed on the quality research and advanced agricultural education that can make agriculture a medium of employment generation. Shri Parshottam Rupala, Union Minister of State for Agriculture and Farmers' Welfare, Dr Trilochan Mohapatra,



Secretary (DARE) and Director General (ICAR), also graced the occasion. Dr Inderjeet Singh, Vice-Chancellor undertook the curtain raising ceremony of the Virtual Classroom at GADVASU and shared that the state-of-the-art technology allows the blend of learning media to have a better comprehension of the subject(s) cutting across the boundaries of space and time.

ISO 9001:2015 Certification for College of Animal Biotechnology

College of Animal Biotechnology has been recognized and awarded with ISO 9001: 2015 certification. The college, with state-of-the-art laboratories equipped with high-end apparatus has created a benchmark in establishing diagnostic services of international standards.

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

Teaching Infrastructure Developed

- Division of Agricultural Economics and ABM Developed Seminar Hall, LEDs TV with video conferencing facilities, Promark windows 10 LED electronic Lectern.
- Division of Agricultural Economics and ABM installed Interactive Boards in classrooms for effective teaching.
- Division of Agronomy: Enhancement in the land for PCP course students.
- Smart Class room with Digital panel in Faculty of Basic Sciences.
- Equipment purchased under ICAR Development grant (Hot air oven, Deep Freezer and Water Bath).

University of Agricultural Sciences, Bengaluru

New Programme Introduced

- **ICAR- Experiential Learning Programme**

“Production technology for bio-fertilizers and bio-inoculants was introduced as ELP course for IV year B.Sc. (Hons.) agriculture students on business mode (0+20) credits to develop entrepreneurship modalities among studies at COA, Mandya.

- Two-year Diploma (Seri.) was started from the academic year 2020-21 at COS, Chintamani.

Teaching Infrastructure Developed Campus

CoS, Chintamani

Lab Water Purification System for central instrumentation laboratory -01; Audio visuals for seminar hall-01; LCD projectors and Screens for class rooms-02; Preparation of teaching aids for Agronomy Department-04; Smart podium for class rooms -02; Central Instrumentation Laboratory-01; Outdoor gymnasium-01.

Besides, five Smart Classroom were also developed at CoA, Mandya.

EVENTS AND ACTIVITIES

Anand Agricultural University, Anand

Trainings

KVK, Dahod

KVK, Dahod is frequently arranging a large number of on-campus/off-campus training programme, specifically for tribal farmers of the region. Five different on-campus training



Scientist of KVK interacting with farmers

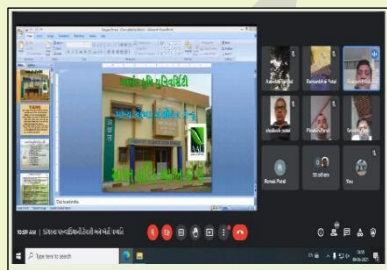
programmes were organized and conducted by KVK, AAU, Dahod, on various topics of agriculture and allied subjects, wherein a total

of 105 farmers and farm women participated actively. Also, an online webinar was conducted on 'Scientific Soybean Cultivation', which was keenly attended by 42 farmers.

A total of two off campus village level training programmes were organized and conducted by KVK, AAU, Dahod on different topics of agriculture and allied subjects, which saw an enthusiastic participation by 59 farmers and farm women.

Online training programme on Paddy Nursery and Agricultural Practices organized by KVK, Devataj

KVK, AAU, Devataj organized online training programme on "Preparation of Paddy Nursery and Agricultural Practices" for direct seeded and transplanted paddy. Dr A. C. Vaidya, Senior Scientist and Head, KVK, AAU, Devataj elaborated the qualities of paddy and requested to use rice bran oil and unpolished paddy for human



Participants attending the online training programme

consumption. Dr M. B. Parmar, Asso. Research Scientist and Head, Main Rice Research Station, AAU, Navagam emphasized on the use of area specific varieties of paddy and their characteristics. He requested all the participants to follow the scientific cultivation of paddy to obtain more production.

Dr Y. C. Lakum, Scientist (Agronomy), KVK, Devataj trained participants for scientifically preparation of bed for raising the rice seedlings, prepare ideal paddy nursery, fertilization and irrigation in paddy nursery, weed control and efficient use of mineral/ fertilizer in paddy nursery.

Dr R.M. Patel, Scientist, Plant Protection explained the scientific methods for seed treatment and other protection measure for disease/ pest control in paddy nursery.

Online training programme on Kitchen Gardening organized by KVK, Devataj

KVK, AAU, Devataj organized an online training programme on Kitchen Gardening on 25 June 2021. Importance of kitchen garden to get fresh and healthy vegetables for human daily consumption was nicely narrated by Dr A.C. Vaidya, Senior Scientist and Head, KVK, AAU, Devataj.



Scientists with their speech

Mrs A.B. Parmar, Asst. Prof. from Horticulture College, AAU, Anand discussed in detailed about the packages and practices of various vegetable crops in kitchen garden. She also discussed about the location of kitchen garden, seasonal vegetables, use of organic manures and vermi-compost, terrace gardening, hydroponics, details about fruits, flowers and medicinal plants in kitchen garden.

Three days online training on sandalwood cultivation organized at Anand Agricultural University

A three-day online training on sandalwood cultivation at Anand Agricultural University has been jointly organized by the Center for Agricultural Market Intelligence, NAHEP, CAAST and Sandalwood Development Association from 4 April 2021.

The Chief Guest Shri A. S. Rawat (I.F.S.- Director General, ICFRE, Dehradun), Advisor, Dr Prabhat Kumar (National Coordinator, NAHEP-CAAST, ICAR, New Delhi), Dr M. K. Zala (Director of Research and Dean PG Studies, AAU, Anand), Convener, Dr R.S. Pundir (Professor and Principal Investigator, NAHEP-CAAST, AAU, Anand), Co-Convener Dr Y. A. Lad (Core Co Principal Investigator, NAHEP-



Dignitaries attending the programme

CAAST, AAU, Anand), Organizing Secretary, Shri Nitin Bhai Patel (President, Chandan Vikas Association), the Guest of Honour, Dr J. L. N. Shastri (CEO-NMPB, Delhi) and Dr M. P. Singh (I.F.S.- Director, IWSB-Bengaluru) were present in the programme. The programme organized under the guidance of Dr K B Kathiria, Vice-Chancellor of Anand Agricultural University, Anand.

The detailed discussion on the cultivation of sandalwood-how to cultivate sandalwood, and how to select sandalwood seedlings from an authorized seller- was carried out by the experts. In addition, preventive measures of sandalwood smuggling and its cost were discussed. The experts opined that, there is need for more research by postgraduate students, agricultural experts and agricultural scientists on sandalwood cultivation, which can go a long way to enhance farmers' income.

Webinar

An Online COVID-19 Awareness-cum-Prevention Campaign run by NSS Unit of CAET, AAU, Godhra

As a movement to fight against COVID 19 and current pandemic conditions prevailing all over world, COVID 19 awareness is much important to stay protected by following rules and guidelines



Students along with posters to create awareness about COVID-19

issued by GoG and GoI. As a part of this movement, an "Online COVID 19 Awareness-cum-Prevention Campaign (#Unite2FightCorona)" run by NSS Unit of College of Agricultural Engineering and Technology, AAU, Godhra. First and second year NSS volunteers actively participated in campaign by preparing various posters and slogans (#Unite2FightCorona) related to COVID 19 to aware students, faculties, communities,

society through online mode (social media, WhatsApp, etc.) and other peoples who suffered from this pandemic. In addition to that students also prepared two short videos from their home to run this campaign. Whole campaign was carried out under the guidance of Dr R. Subbaiah, Dean of this college and Er. Kamlesh Jethva, NSS Programme Officer.

Awareness program for COVID 19 organized by College of Horticulture

The College of Horticulture, AAU, Anand organized two online expert lectures for Awareness of COVID 19 and vaccination among students and faculties.

First lecture was on "COVID 19 and Vaccination"

which was delivered by Dr Abhishek Prajapati, MB, DTCD, FCCS, Shree Krishna



Online awareness programme on COVID-19

Hospital, Karamsad on 1 May 2021. He had given the information regarding symptoms of COVID 19, precautions to be taken and the role of vaccination to prevent and cure COVID 19. Total 65 students of fourth and sixth semester actively participated.

Second lecture was on "Ayurveda for COVID-19", delivered by Dr Vidhi Bapna, Professor and Head of Department at J. S. Ayurveda Mahavidyalaya, Nadiad on 8 May 2021 at 11.00 to 12.00 pm. She gave very good information regarding the immunity enhancement using household kitchen food materials with their recommended quantity. She emphasized on role of yoga and diets for preventing COVID 19. Total of 97 students participated in this programme. Dr Chintan Raval and Dr Gita Chaudhari coordinated with the speakers and students to make this event a success.

Chaudhary Charan Singh Haryana Agricultural University, Hisar

Digital Lecture Organized

CCS HAU, Hisar organized a virtual lecture to commemorate the contribution of late Rao Bahadur Dr Ram Dhan Singh in food-grain production at the campus. "The achievements made in the production and productivity of food grains during the Green Revolution period in the states of Haryana and Punjab has been possible only due to the strong foundation of the crop improvement programmes established by him. Such great scientists and their contribution cannot be forgotten", said Prof. B.R. Kamboj, Vice-Chancellor, CCS HAU in a virtual memorial lecture in remembrance of the great plant breeder late Rao Bahadur Dr Ramdhan Singh.



CCS HAU, VC, Prof. B.R. Kamboj addressing in a virtual memorial lecture

Training

Refresher course concludes at CCS HAU

The collective efforts by scientists to achieve better results of any research prove to be effective.

Therefore, scientists should pursue research in collaboration with various faculties and institutions so that the farming community can get maximum benefit from them. These thoughts were shared by the Vice-Chancellor of CCS HAU, Prof. B.R. Kamboj. He was speaking on the occasion of the conclusion of a three-week refresher course on "Research



Prof. B.R. Kamboj, VC, CCS HAU, interacting with the participants

Management" organized online by Directorate of Human Resource Management. He said that scientists should engage themselves with new technologies so that they can work in a better way keeping in mind the current conditions in the field of research. Earlier, Course Coordinator Dr Manju Mehta welcomed the participants and guests and gave detailed information about the activities carried out during the refresher course. The course was attended by 48 participants from across the country, out of which 27 participants were from CCS HAU and 21 from various states of the country, Punjab, Uttar Pradesh, Andhra Pradesh, Maharashtra and Chhattisgarh.

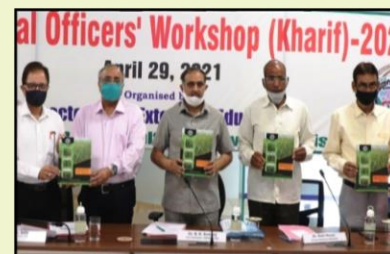
Agricultural Officers Workshop (Kharif)

"Scientists have to take special care of proper conservation of natural resources while doing research work"- said the Vice-Chancellor, CCS HAU, Hisar, Prof. B.R. Kamboj. He was addressing the Agricultural Officer's Workshop (Kharif) organized in the University through online medium.

Addressing the workshop, Additional Chief Secretary, Agriculture and Farmers' Welfare Department, Mrs Sunita Mishra said that at present, the problem of water conservation and crop residue management is a burning issue before the state government. The state government implemented a scheme called *Mera Paani Meri Virasat* for water conservation and crop diversification, which is proving very effective. Apart from this, steps are also being taken by the government for crop residue management.



Chief Guest Prof. B.R. Kamboj VC CCS HAU, Hisar and others



Prof. B.R. Kamboj VC CCS HAU, Hisar releasing the book

Director General Agriculture Dr Hardeep Singh, IAS said that the State Government is making efforts to increase the income of the farmers. In such a situation, the Agriculture Officer should make the farmers aware by giving information about modern farming methods and latest techniques instead of traditional farming. He told that the recommendations made by the University scientists for pesticides and their use in *rabi* and *kharif* crops are very effective. So, farmers must adopt them. He also informed about various welfare schemes being run by the state government for the farmers. On this occasion, the Vice-Chancellor, CCS HAU also released a book titled "Continuous Contribution to Food Security of various varieties developed by the University".

Dr Y.S.R. Horticultural University, Venkataramannagudem

Trainings

- Forty-two institutes (KVKs, HRSs, COHs & HPs) under Dr YSRHU are continuously involving in skill development programmes to farmers, rural youth and women through regular skill training programmes. A total of 23 training programmes were organized in all the four Krishi Vigyan Kendras and 19 Horticultural research stations during (April 2021 to June 2021) under Dr YSRHU.
- Cashew Research Station, Bapatla organized a training programme at Rythu Bharosa Kendram, Bethapudi Village, Bapatla Mandal on 29 June 2021. Dr T. Janakiram, Vice-Chancellor, Dr YSRHU attended as chief guest and addressed the farmers on improved practices in flower cultivation, Dr RVSK Reddy, Director of Research, Dr YSRHU attended as the Guest



of Honour and addressed the farmers' problems in vegetable cultivation and highlighted the importance of organic matter content in the sandy soils of the coastal area to combat the problem of soil-borne pathogens, Dr Ramachandran, Director (Rtd.), IIHR, Bengaluru interacted with farmers and clarified the doubts in cross andra cultivation through virtual mode. This programme was presided by Dr Dhananjay Rao, Zonal Research Head, Coastal Zone -II and Principal Scientist (Hort.) & Head. Dr K. Umamaheswara Rao, Senior Scientist (Hort.), B. Nagendra Reddy, Scientist (Ento), Horticultural Officer, Bapatla Smt. Kumari, Sarpanch Bethapudi and VHAs of Bapatlamandal and 40 farmers attended.

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Seminar / Webinar

- National webinar on "Dialogue with Horti Students on Experiential Learning Programme (ELP) -Experiences: Way forward" was organized on 10 June 2021 under the chairmanship of Dr T. Janakiram, Vice-Chancellor, Dr YSRHU. All the nine ELP modules were presented by ELP students, experiences gained and the economics. The ELP students from all the four South Indian Universities participated and shared the ELP work carried out at their respective colleges. Dr A. S. Padmavathamma, Dean of Horticulture, Dr YSRHU coordinated the programme.
- HRS, Anantharajupeta Dr YSRHU organized district level seminar on Turmeric under CSS-MIDH programme. Sri Raghurami

Reddy garu, MLA, Mydukur and Sri Ravindranath Reddy garu, MLA, Kamalapuram have graced the occasion and distributed certificates and mementoes to the progressive farmers of Y.S.R kadapa district.

- National webinar on “Dialogue with Horti Students on Experiential Learning Programme (ELP) -Experiences: Way forward” was organized on 10 June 2021 under the chairmanship of Dr T. Janakiram, Vice-Chancellor, Dr YSRHU. All the nine ELP modules were presented by ELP students, experiences gained and the economics. The ELP students from all the four South Indian Universities participated and shared the ELP work carried out at their respective colleges. Dr A. S. Padmavathamma, Dean of Horticulture, Dr YSRHU coordinated the programme.

Guru Angad Dev Veterinary and Animal Science University, Ludhiana

Workshops

ICAR Capacity building Workshop on Antibiotic Susceptibility Testing

Department of Veterinary Microbiology and Centre for One Health organized National level online workshop for academicians, research scholars and veterinary officers for capacity building on ‘Antibiotic Susceptibility Testing’ under the ICAR Niche Area of Excellence on ‘Antibiotic Resistance: Animal-Human Interface’.

Workshop on ‘Dairy farmers vis-a-vis FPO formation for better income’

Krishi Vigyan Kendra, Booh (Tarn Taran) organized workshop under the theme ‘Dairy farmers vis-a-vis



FPO formation for better income’. A total of 35 farmers attended the programme and got benefitted. Expert(s) informed the participants about importance and various steps involved in formulation of FPOs, discussed the role of NABARD in FPOs formation and enlightened the participants about the importance of POPI (Producer organization promoting institutions).

Virtual workshop on Recirculatory Aquaculture System (RAS)

KVK, S.A.S. Nagar (Mohali) organized a virtual workshop to create awareness regarding a new intensive aquaculture technology viz. Recirculatory Aquaculture System (RAS). A total of 36 farmers participated in the programme. Expert(s) delivered talk on ‘Basic Components and Design of RAS’ and advocated the adoption of this technology to enhance the farm income manifolds. The participants were also provided information about the Pradhan Mantri Matsya Sampada Yojna (PMMSY) of Government of India.

Trainings

Skill Development Training on Soil and Water Testing Lab Analyst

KVK, Booh (Tarn Taran) organized a skill development

training on ‘Soil and Water Testing Lab Analyst’, sponsored by Agriculture Skill Council of India



and Indian Council of Agriculture Research. A total of 25 students took part in training and obtained technical knowledge and practical skills on various aspects of soil and water testing for self-entrepreneurship. The training took in its ambit the estimation of soil physical properties, soil chemical properties and water quality parameters in irrigation water.

Dr Inderjeet Singh, Vice-Chancellor, GADVASU interacted with trainees and

inspired the students to emerge as an entrepreneur and establish their own ventures. He motivated them for plant clinical based services.

e-Training for Skill Development

College of Animal Biotechnology and Project Monitoring Unit of the Department of Biotechnology, GADVASU organized an e-training on 'Skill Development on Advanced Bioinformatics in Genome Analysis of Livestock and Pets' for faculty, scientists, researchers, and postgraduate students, sponsored under the Department of Biotechnology-funded project on 'Parentage Determination and Cytogenetic Profiling in Dogs'. A total of 263 trainees participated in the training programme taking in its ambit hands-on practice on programming languages (R, Python, Perl), advanced bioinformatics tools, and pipelines for big-data analysis.

Training on Animal welfare and equine behavior

GADVASU organized online Training Programme on 'Animal Welfare and Equine Behavior' for developing understanding on Animal welfare, equine behaviour and compassionate handling amongst veterinary students under Institutional Development Plan (IDP) of NAHEP in coordination with Brooke Hospital for Animals (India). A total of 263 stakeholders participated in the programme. The technical lectures encompassed the topics of Animal Welfare and its frameworks; natural behavior of equine; equine communication; welfare assessment; welfare issues of working equines; and compassionate handling.

Vocational Training on Scientific Fish Farming

KVK, S.A.S. Nagar (Mohali) organized a vocational training on Scientific Fish Farming at village Tira. Expert(s) informed participants about the potential of fish farming as an enterprise in Punjab state. The participants

were also imparted knowledge on zero waste technology for fish processing developed by GADVASU. An exposure visit of trainees was organized to the fish farm at village Harnampur, for hands on training.



Awareness Programmes on Direct Seeded Rice (DSR) Cultivation

KVK, Booh (Tarn Taran) organised awareness programmes on Direct Seeded Rice (DSR) in village Dargapur. The expert(s) discussed about the production technology and management of DSR, nutrient, weed and water management in DSR.



KVK, S.A.S. Nagar (Mohali) organized a meeting with farmers to create awareness about un-puddled Direct Seeded Rice (DSR) at village Shahpur. KVK, S.A.S. Nagar (Mohali) conducted a training programme on DSR at village Lakhnor. Expert(s) informed the participants that DSR is the only viable option for rice farmers to reduce the unproductive water flow. To motivate the farmers to adopt DSR, rice seed (PR 126) and weedicides (Pendimethalin and Bispyribac) were distributed to farmers.

Seminar/Symposium/Webinar, etc.

International e-Conference on Emerging Challenges to Veterinary Profession

Dr Inderjeet Singh, Vice-Chancellor addressed the inaugural session sharing his words of wisdom in International Virtual Conference on 'Emerging Challenges to Veterinary Profession (IVACON-2021)' organized by College of Animal

Biotechnology, GADVASU in association with the Indian Veterinary Association (IVA) and Confederation of Indian Industries (CII). Nearly 2,000 participants from India and 26 other countries



participated in the mega event. The discussions during the technical sessions of the conference focused on 'Animal Health and Production diseases', 'Antimicrobial resistance an alternative' and 'Animal Production, Productivity enhancement Processing, and Marketing'.

Week Long Celebrations of the World Veterinary Day, 2021

GADVASU celebrated the World Veterinary Day under the theme 'Veterinarian Response to the COVID 19' with week-long activities.

- Veterinary Hospital organized free anti-rabies and tick control camp for animal owners. The pet owners were educated regarding the importance of proper vaccination and



deworming for keeping their pets safe and healthy from serious and life threatening diseases. Mineral mixture, calcium supplements, de-wormers and other feed supplements were distributed free of cost to the dairy farmers. Pamphlets regarding precautions to be taken at home, dairy farms and veterinary hospitals to prevent the spread of COVID 19 were distributed.

- College of Veterinary Science, Rampura Phul organized the programme entitled

'Veterinarian at Farmers' Doorstep' and facilitated interactive/personal consultancy, vaccination and treatment at Veterinary Hospital, Chauke, Rampura Phul, Bathinda.

- Veterinary Polytechnic and Regional Research and Training Centre, Kaljharani organized free anti-rabies vaccination for pets. Free samples of de-wormers were also distributed amongst the pet owners.

Dr Inderjeet Singh, Vice-Chancellor complemented the efforts of the scientists for meticulously organizing the World Veterinary Week in a capsulated manner while observing government's guidelines regarding COVID 19 pandemic. Dr Singh specifically mentioned the key role played by GADVASU in COVID 19 diagnosis at Viral Research and Diagnostic Laboratory of the University.

Celebration(s) of World Environment Day

- College of Veterinary Science, Rampura Phul, organized a national level online Quiz Competition. A total of 237 undergraduate students representing 20 veterinary colleges across



the country participated in the event. The meritorious students were awarded with e-certificate. A tree plantation drive was also organized on this occasion.

- College of Fisheries organized 'Plantation Drive' on the occasion of the World Environment Day to commemorate environment's unconditional services to the mankind. The drive themed as 'Ecosystem Restoration' was inaugurated by



Dr Inderjeet Singh, Vice-Chancellor, GADVASU with a message to protect the environment for maintaining its ecological balance to serve the future generations. Officers of the University participated in the event by planting a tree each to promote healthy environment for healthy living.

Celebration(s) of the 'World Milk Day'

- College of Dairy Science and Technology celebrated the World Milk Day under the theme 'Sustainability in Dairy Sector - Environment, Nutrition and Socio-Economics'. Dr Inderjeet Singh, Vice-Chancellor graced the occasion as the Chief Guest of the function and Dr Harmanjit Singh Banga, Registrar as the Guest of Honour. A special edition of 'Vigyanak Pashu Palan' magazine of the University, dedicated to dairy sector, was published by Directorate of Extension Education.
- College of Dairy Science and Technology organized 'Milk Adulteration Testing Camp' and tested nearly 100 milk samples free of cost for presence of any adulterant using the kits developed by GADVASU Scientists.
- College of Veterinary Science, Rampura Phul celebrated the World Milk Day by organizing an awareness camp on 'Hygienic and Wholesome Milk Production' for progressive dairy farmers. The participants were sensitized about hygienic milk production protocol and associated socio-economic benefits.



Scientists advocated the 'One Health' Approach at International Symposium

Centre for One Health, GADVASU organized the International e-Symposium on 'One Health Concept: Opportunities and Perspectives in Present Scenario' and XVII Annual Conference

of Indian Association of Veterinary Public Health Specialists (IAVPHS). A total of 341 participants attended the mega event. GADVASU students and faculty bagged many prestigious awards viz. Young Scientist, Best Oral and Poster Presentations, Best M.V.Sc and Ph.D thesis and Prof. Mahendra Pal Zoonses award(s).



Dr Inderjeet Singh, Vice-Chancellor, GADVASU; Dr. B.N. Tripathi, Deputy Director General (Animal Science), Indian Council of Agricultural Research; Dr Manju Rahi, Deputy Director General, Indian Council of Medical Research; Dr Praveen Malik, Animal Husbandry Commissioner, Government of India; Dr Baljit Singh, Vice-President Research, University of Saskatchewan, Canada; Dr Subeer Majumdar, Director, National Institute of Animal Biotechnology, Hyderabad; and Dr Ashok Kumar, Assistant Director General (AS), ICAR graced the inaugural session.

Talk Series on COVID 19 Issues

College of Veterinary Science, Rampura Phul organized Health Talk Series under the theme 'Exploring and Understanding the COVID 19 Pandemic' to apprise society about various facts and facets regarding the impact of pandemic on society with special emphasis on expectant, lactating women and children. Dr Chandrakant S Pandav, Padamshree Awardee was the key speaker. Dr Inderjeet Singh, Vice-Chancellor inaugurated the series and emphasized on the role played by Veterinarians in diagnosis and vaccine development. He stressed on the 'One Health' concept and emphasized on creating harmony amongst the health of animal, plants, human beings and environment.

National Webinar on COVID 19 Crises

Institutional Development Plan (IDP) Cell of

GADVASU organized a national webinar on 'Role of animals in the origin and transmission of SARS-COV 2'. A total of 172 participants actively took part in the webinar and got benefitted. The expert(s) emphasized on productive responses of veterinarians in the wake of COVID 19 crisis.

Webinar on 'Nutritional Strategies to produce Quality Milk in Dairy Animals'

KVK, S.A.S. Nagar (Mohali) organized a webinar on Importance of feed to produce quality milk in dairy animals. A total of 61 dairy farmers and cattle feed millers participated in the webinar and got benefitted. Expert(s) imparted technical knowledge about influence of quality of feed ingredients on the quality of milk and animal health, and advised farmers on milk quality check on the basis of somatic cells count (SCC), which reflects the udder health of animals and mastitis condition.

e-Gosthi on Importance of Milk

KVK, S.A.S. Nagar (Mohali) organized e-gosthi on Importance of Milk, in daily life as part of festivities of World Milk Day. The participants were imparted scientific knowledge on testing of milk, control of mastitis in dairy animals, milk quality check on the basis of somatic cells count, nutritional importance of milk, its value addition and preparation of milk products.

Odisha University of Agriculture and Technology, Bhubaneswar

State Level Research and Extension Council Meeting

The State Level Research and Extension Council Meeting of the University, was conducted through virtual mode on 23 and 24 June 2021 under the Chairmanship of Dr P.K. Agrawal, Vice-chancellor OUAT. Shri Suresh Kumar Vashishth, Commissioner-cum-Secretary, Department of Agriculture and F.E., Government of Odisha, graced the inaugural function as the Chief Guest. There

was discussion on achievements of research, extension and seed production activities for the year 2020-21 and preparation of action plan for the year 2021-22. Shri Raj Kumar Sharma, Agriculture Production Commissioner, Government of Odisha graced the plenary session as the Chief Guest. Dean of Research presented the highlights of research activities during 2020-21. Dean, Extension Education made a brief presentation on the activities and achievements of the University Extension system for the year 2020-21. Deans, Directors, Scientists, Faculties and Extension Specialists of the University participated in the programme.

Empowering Farmers through OMBADC Project

A mega project entitled 'Capacity Building, Skilling, Agro-Enterprises and Entrepreneurship Development in the Mineral Bearing Districts of Odisha' with a budget outlay of Rs 146.91 crore was sanctioned by OMBADC for implementation by OUAT during 2021-22 to 2025-26. The project is to be implemented in seven districts of the state, viz. Dhenkanal, Jaipur, Keonjhar, Mayurbhanj, Sundargarh, Deogarh and Jharsuguda through nine Krishi Vigyan Kendras, three Regional Research and Technology Transfer Stations, five Agro-Polytechnics, College of Horticulture, Chiplima, College of Agriculture, Chiplima, Directorate of Research and Directorate of Extension Education. This will focus on Capacity building of farmers, Self Help Groups, Farmer Producer Organizations, Agri-entrepreneurs, extension personnel and other stakeholders. This will also work for imparting skill, capacity building, incubation and entrepreneurship to rural youths through one-year certificate course. There will be strengthening of infrastructure at nine Krishi Vigyan Kendras, three Regional Research and Technology Transfer Stations, five Agro-polytechnics, two Colleges and University headquarters for training, skilling and

entrepreneurial activities. It will facilitate for development of Agro-Enterprise Units at Krishi Vigyan Kendras and creation of commodity specific Centres of Excellence at Regional Research and Technology Transfer Stations.

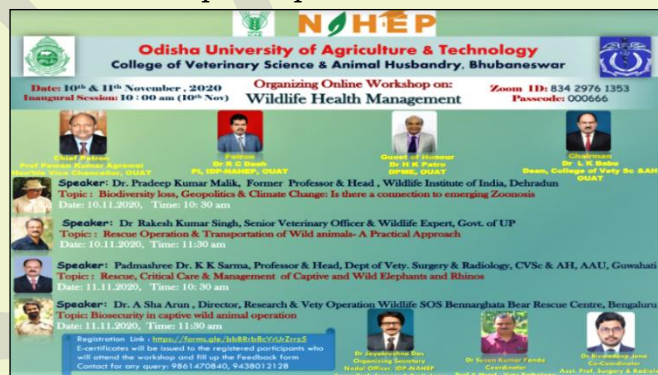
Workshop/Webinar by Institutional Development Plan

Institutional Development Plan (IDP) is a component under National Agricultural Higher Education Project (NAHEP) operating in the University with the objectives to orient towards capacity building and governance reforms leading to greater autonomy and sustained accreditation of the University. Various Workshop and Webinars were organized in the University with support from IDP, NAHEP. The details are given below:

Workshop/ Webinar

- Awareness on NABL Accreditation of Laboratories and Workplace Safety –150 participants.
- Entrepreneurship Development- The Need for Atma Nirbhar Bharat, Special Focus on Animal Husbandry and Dairying –110 participants.
- Principles on Agricultural Research: Ecological Principle and Systems Thinking in Agricultural Research and Practice– 461 participants.
- Wildlife Health Management – 259 participants.
- Basic Veterinary Ophthalmology– 369 participants.
- Prospects and Challenges of Livestock Entrepreneurship in India– 463 participants.
- Mitigating the Challenges in Animal Reproduction Sector– 165 participants.
- Entrepreneurship Development through Value Addition of Banana and its by-products – 423 participants.
- Entrepreneurship Development through Value Addition of Jackfruit and its by-products – 410 participants.

- Entrepreneurship Development in Livestock Farming through Augmentation of Animal fertility – 155 participants.
- Livestock based Integrated Farming Systems for livelihood improvement of small and marginal farmers – 185 participants.
- Prospective of Rational Therapy of Veterinary Drugs in Animal and Fisheries – 46 participants.
- Contingent plan for management of livestock in natural disasters – 194 participants.
- Cytological diagnosis in canine disease management practices – 90 participants.
- Understanding spectrum of Anaemia in cattle – 120 participants.



Sri Konda Laxman Telangana State Horticultural University, Telangana

Conducted webinar combinedly with Dr YSRHU (host), Venkataramannagudem, Andhra Pradesh SKLTSHU, Mulugu, Telangana, UHS, Bagalkot and UAHS, Shivamogga on "Dialogue with Horti Students on Experiential Learning Programme (ELP) – Experiences – "way forward". 450 Students Participated actively from Four Horticultural Universities.

Recommendations

- ELP provided practical insights for the students to develop entrepreneurship skills.
- Horticulture graduates must be trained/encouraged to be "Job Providers" rather than "Job Seekers".

- During this COVID situation where immunity of public is playing major role in fighting against the disease, the importance of fruits, vegetables and spices have gained its attention as immunity boosters, hence recommendations on sustainable horticulture development in terms of processing and value addition is the need of the hour. This has great potential to help small and marginal farmers growing horticultural crops.
- Conducting such webinars on ELP is a First of its kind in the country, thus students gained exposure and knowledge on different modules being implemented in different Universities. This Webinar has given a platform for the students to identify and overcome the constraints faced by the fellow students during ELP and also has realized the entrepreneurship potential in Horticulture.

Outcomes

- Experiential learning programme (ELP) provides an opportunity to encourage even a small farmer to become an entrepreneur.
- Through this Novel approach of combining four Horticultural University of South India, a dialogue between student community helped to diagnose the strengths, weakness, opportunities in successful conduct of ELP.
- Conducting such webinars every year on ELP helps to share knowledge and skills gained among students, develop capacity building and technical knowhow of the horticulture students, healthy networking of student community to become successful entrepreneurs of future.

workshop at National level on 29 and 30 June 2021.

Trainings

- Scientific cultivation of Bee keeping sponsored by National Bee Board, Government of India from 16.04.2021 to 23.04.2021 (07 Days) at KVK Jammu – 32 participants.



- Online Training Programme on Scientific cultivation of Bee keeping sponsored by National Bee Board, Government of India from 28.06.2021 to 30.06.2021 (03 Days) at KVK Jammu – 32 participants.
- Dairy Farming training held on 23/06/2021 for 1 day Under RKVY project at FVSc & AH – 25 participants.
- Dairy Farming training held on 24/06/2021 for 1 day Under RKVY project at FVSc & AH – 16 participants.
- 3.Rabies Awareness among the rural masses training held on 25/06/2021 for 1 day by Divisional sponsor agency at FVSc & AH – 25 participants.
- One day training was organized at village Nandpur, Block Bisnah, Samba for selection of farmers and discussion about hydroponics NFT system and Hydroponics Fodder Production system under NABARD funded project entitled "Training and demonstration of vegetables and fodder production through Hydroponics system in Jammu region of J&K" on 17 June 2021 at



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

Workshop

The Division of Statistics and Computer Science, FBSc organized in a row 3rd National Statistics Day- 2021 through two-day virtual

11:00 AM along with DDM, NABARD Samba District.

- One day training was organized at village Shah Blore, Block Nud, Samba for selection of farmers and discussion about hydroponics NFT system and Hydroponics Fodder Production system under NABARD funded project entitled "Training and demonstration of vegetables and fodder production through Hydroponics system in Jammu region of J&K" was held on 25 June 2021 along with DDM, NABARD Samba District.
- One day training conducted on 28/06/2021 at Samba district by Rainfed Research Sub Station for Subtropical fruit Raya in response to controlling Alternate bearing problem of mango along with DDM Samba.

Tamil Nadu Agricultural University, Coimbatore

International Webinar cum Workshop on 'Seed Quality Enhancement'

An International Webinar cum Workshop on 'Seed Quality Enhancement' under the aegis of Indo-German Bilateral Cooperation on Seed Sector Development was organized at Seed Centre, Tamil Nadu Agricultural University, Coimbatore during 23-25 June 2021. In the inaugural session, Dr N. Kumar, Vice-Chancellor



International Webinar cum Workshop on 'Seed Quality Enhancement'

emphasized the importance of seed quality on production and productivity. Shri Ashwani Kumar, Joint Secretary (Seeds), Ministry of Agriculture and Farmers Welfare, GoI, New Delhi delivered special address. Dr K. S. Subramanian, Director of Research also addressed the gathering. Dr Vilas A. Tonapi, Director, ICAR - Indian Institute of Millets Research, Hyderabad delivered the

introductory remarks of the programme. Dr S. Sundareswaran, Director, Seed Centre delivered vote of thanks. Scientists from International and National institutes were invited for the deliberations. Around 200 participants including the Scientists from ICAR Institutes, State Agricultural Universities, officials from the Department of Seed Certification, Seed Industrialists and Research Scholars participated in the programme.

Tamil Nadu Dr J. Jayalalithaa Fisheries University, Nagapattinam

Training Programme on Hygienic Dry fish Production

Training cum demonstration on Hygienic Dry fish Production using Solar Dryer in PPP mode was conducted from 03.05.2021 to 07.05.2021 for SHG women of



Sikkal village. Hygienic Dry fish Production, Value-added fisheries products preparation technologies, Hygienic packaging and marketing were taught to the SHG women farmers. The demonstration was conducted on the Hygienic Dryfish Production of *Nethili* and *Nethili* masala using a Solar Dryer available at KVK, Nagapattinam.

Webinar on "Smart Aquaculture – IoT (Internet of Things) Approach towards Efficient Farming"

The Department of Aquaculture organized a one-day National Webinar on "Smart Aquaculture – IoT (Internet of Things) Approach towards Efficient Farming" on 23.06.2021. The technical session began with the presentation by Dr P.



Chidambaram, Professor, on “Smart Aquaculture – A way forward”. The lecture on “Application of Artificial intelligence (AI) in shrimp farming” was given by Dr P. Nila Rekha, Principal Scientist, ICAR- CIBA, Chennai. Dr M.K. Anil, Principal scientist, ICAR – CMFRI, Vizhinjam center, Kerala presented on “Smart Mariculture; the Present and Future”. Dr Antony J Prabhu, Senior researcher, Feed and Nutrition group, Norwegian Institute of Marine Research, Bergen, Norway, spoke on “Smart technologies in Aquaculture – An example of Norwegian salmon farming; the present and future”. In total, 100 candidates including entrepreneurs, faculty, scholars and students participated.

Webinar on “Entrepreneurship opportunities from fish waste”

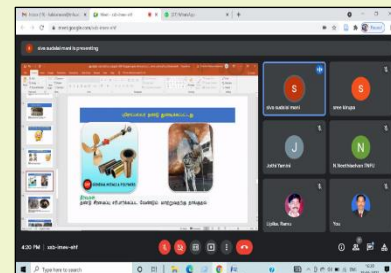
The Department of Fish Processing Technology organized a one-day National webinar on “Entrepreneurship opportunities from fish processing waste” on



29.06.2021. The webinar was inaugurated by Professor G. Sugumar, Vice-Chancellor of Tamil Nadu Dr J Jayalalithaa Fisheries University (TNJFU). The technical session began with the talk of Dr D. Sukumar, Principal, PIFT, TNJFU, Madhavaram who gave the introductory remark on the “Utilization of Fish Waste”. Dr Kaleemur Rahman, Director of Millennium export, Chennai gave an overview on “Waste Management with reference to Fisheries and Marine Biowaste”. Dr S. Balasundari, Dean of Dr MGR FC&RI, Thalainayeru, Nagapattinam spoke on the “Products of commercial importance from fish waste” and the Industrialist Mr Joseph Mathew, Designated partner and CEO of ISF Chitin and Marine products LLP, Kochi, shared his experience on “Chitin and Chitosan based products from shrimp processing waste”.

Webinar on Marine Engine Maintenance

An awareness programme was conducted on Marine Engine Maintenance jointly by the Directorate of Incubation and Vocational Training in Fisheries, Ramanathapuram and Reliance Foundation, Madurai on 18.06.2021. A total of 50 fishermen participated.



University of Agricultural Sciences, Bengaluru

Workshops

- Zonal Research and Extension Programme of Zone VI was organized at ZARS, Mandya on 5 April 2021 through online cloud meeting.
- Zonal Research and Extension Programme of Zone V was organized GKVK Campus on 8 April 2021 through online cloud meeting.
- One day workshop on Pesticide development and registration for PG students was organized by AICRP on Dryland Agriculture on 9 June 2021
- **Annual Review cum Action Plan Workshop:** The Directorate of Extension, UAS, Bengaluru organized annual review cum action plan workshop of KVKs of UAS-B on 16 and 17 April 2021 at ATIC, GKVK, Bengaluru through virtual mode under the chairmanship of Dr S. Rajendra Prasad, Vice-Chancellor, UAS, Bengaluru. Director of Extension welcomed the Chairman, Co-chairman, Experts and all the Scientists of KVKs. Vice-Chancellor in his presidential address emphasized that the Heads of KVKs should plan their work based on doubling farmers income concept and to minimized the use of inputs as well as to reduce cost of cultivation. They should act as model center for the entire district agro-climatic conditions and he suggested them

to develop action plan for one district one product under Atmanirbhar programme. Dr V. Venkatasubramanian, Director, ATARI, Hebbal, Bengaluru emphasized on to collaborate all the KVK activities in celebration of India's 75 years of Independence programmes.

- On 16 April 2021 all the Heads of 10 KVKs presented work done report of 2020-21 and on 17th Action Plan prepared for the year 2021-22. As special invitee Dr S. Prabhu Kumar, Former Director, ATARI, Bengaluru, experts from different divisions and Principal Scientists of ATARI participated and provided technical guidance in the workshop. The programme was coordinated by Dr M.J. Chandregowda, Principal Scientist, ATARI, Bengaluru.
- Bakery Training Unit, Directorate of Extension, UAS, Hebbal, Bengaluru organized lecture series on "Healthy lifestyle during COVID 19 pandemic" from 17.05.2021 to 25.05.2021. The lecture series was attended and appreciated by nearly 195 people from different reputed institutes from various parts of the country.

Webinars

- A Webinar on "Minding the Mind" and "How to be Positive during COVID 19 pandemic" was organized for students of all the three degree programme of CoA, Hassan on 10.06.2021, 12.06.2021 and 15.06.2021. Dr K.N. Muniswamy Gowda, Dean (Agri.), CoA, Hassan welcomed the Vice-Chancellor and Guest speaker. The Vice-Chancellor Dr Rajendra Prasad delivered the introductory remarks. The Guest Speaker was Dr Suneetha. K. S, MBBS, DPM (NIMHANS), District Psychiatrist, Hassan, Co-ordinated by Dr B.Tambat, Associate Prof. of Crop Physiology, and TO to Dean (Agri.).

- A Webinar on "Recent Trends in Cyber Crime and Preventive Measures" was organized for Staffs and Students of CoA, Hassan on 11.06.2021. The Dean (Agri.), Dr K.N. Muniswamy Gowda, delivered the introductory remarks. Vice-Chancellor Dr Rajendra Prasad delivered Introductory remarks. The Guest Speaker was Mr Prashanth. K., M.Sc. (For.) Police Inspector, West Division, Bengaluru. Co-ordinated by Dr B. Tambat, Assoc. Prof of Crop Physiology, and TO to Dean (Agri.).
- A Webinar on "Right Attitude" was organized for all the Students of three degree programme of CoA, Hassan on 15.06.2021. The Dean (Agri.), Dr K.N. Muniswamy Gowda, delivered Introductory remarks. The Guest Speaker was Dr Suneetha. K. S, MBBS, DPM (NIMHANS), District Psychiatrist, Hassan. Co-ordinated by Dr B. Tambat, Assoc. Prof of Crop Physiology, and TO to Dean (Agri.).
- Bakery Training Unit, Directorate of Extension, UAS, Hebbal, Bengaluru organized webinar on World Milk Day on 01.06.2021 focusing on the theme "Sustainability in the dairy sector along with empowering the environment, nutrition and socio-economic." Dr S. Rajendra Prasad, Vice Chancellor, UAS, Bengaluru addressed the participants about the celebration of World Milk day and its initiation. Dr N. Devakumar, Registrar, UAS, Bengaluru explained about the milk, as it is an important part of a healthy, balanced diet for each individual. Dr Narayan Gowda K., Director of Extension, UAS, Bengaluru highlighted on the importance of dairy enterprise as economic activity for upliftment of socio-economic status of the farming community. Dr Suresha S. V., Coordinator, Bakery Training Unit, explained the importance of milk as source of protein, fat and other major

minerals. The guest lectures on Processing and Preservation of Milk, Milk products, and Importance of Milk and Milk products in Daily diet were delivered and nearly 110 people including scientists, faculty members, professionals, students, home makers and entrepreneurs from various parts of the country participated in the programme.

Further, ICAR-Krishi Vigyan Kendra, Tumkur, Ramanagara and Chamarajanagar on the occasion of 75 years of Independence of Amrutha Mahotsav, also organized “World Milk Day -2021” by conducting online webinar with a theme on “Sustainability in the Dairy Sector”.

Trainings

- KVK, Chikballapura in collaboration with Department of Agriculture, Chintamani organized off campus training programme on “Value addition in millets” at Kodegondlu village of Chintamani taluk on 22.04.2021. Miss Bhavana, Scientist (Home Science) demonstrated the procedure of preparing ragi chocolates and ragi laddu. Dr Gayathri Scientist (Soil Science) emphasized on importance of value addition to enhance the family income. Forty-two farmers/ farm women participated in the training programme.
- Online training programme on Importance of seed treatment in field crop, was organized by Extension Education Unit, OFRs, Naganahalli, Mysuru on 05.05.2021. Dr C. Govindaraju, Professor (Plant Protection), EEU, Naganahalli delivered a lecture on above said topic. Dr C. Ramachandra, Professor (Agronomy) and Extension Leader, EEU, Naganahalli welcomed the farmers and briefed about the activities of EEU Mysuru. Twenty-two farmers attended the programme.
- Online training programme on Integrated Crop Management on Maize was organized on 19.05.2021. Dr C. Ramachandra, Professor (Agronomy) and Extension Leader, EEU, Naganahalli, Mysuru delivered lecture. Thirty-seven farmers and farm women attended this programme.
- Online training programme on “Importance of green manuring crop” was organized by Extension Education Unit, OFRS, Naganahalli, Mysuru on 26.05.2021. Sixty-seven farmers got the benefit from the programme.
- Online training programme on “Integrated Weed Management on Rice” was organized on 19.05.2021. Dr S. Kamalabai, Assistant Professor (Agronomy), Weed Management Project. GKVK, Bengaluru delivered lecture on the above topic. Fifty- three farmers attended the programme.
- Online training programme on “Integrated Crop Management on Maize” was organized by Extension Education Unit, OFRS, Naganahalli, Mysuru on 09.06.2021. Dr B. G. Shekar, Professor (Agronomy) and Head AICRP (Forage), ZARS, V.C. Farm, Mandya delivered a lecture on the above mentioned topic. Dr C. Ramachandra, Professor (Agronomy) and Extension Leader, EEU, Naganahalli coordinated the programme. In total 39 farmers benefited from the programme.
- Online training programme on “Paddy varieties and Hybrids for *Kharif* season” was organized by Extension Education Unit, OFRS, Naganahalli, Mysuru on 15.06.2021. Dr N. Shivakumar, Professor, Hybrid rice, ZARS, V.C. Farm, Mandya delivered a lecture on the above topic. Thirty-eight farmers participated in the programme.

- Online training programme on “Integrated Crop Management in Ginger” was organized by Extension Education Unit, OFRS, Naganahalli, Mysuru on 18.06.2021. Dr Mohana Kumar, A.B, SMS (Horticulture), KVK, Chamarajanagara delivered a lecture on the above said topic.
- Online training programme on “Soil and water management” was organized by Extension Education Unit, OFRS, Naganahalli, Mysuru on 21.06.2021. Dr Mudalagiriappa, Chief Scientist (Dry land), GKVK, Benaguru, delivered a lecture on above said topics. Dr C. Ramachandra, Professor (Agronomy) and Extension Leader, EEU, Naganahalli welcomed the farmers and briefed about the activities of EEU Mysuru. In total 64 farmers got the benefit from the programme.
- Online training programme on “Integrated Nutrient Management in Paddy” was organized by Extension Education Unit, OFRS, Naganahalli, Mysuru on 28.06.2021.
- Online training programme on “Integrated Pest and disease management in Pulse crops” was organized on 01.07.2021 by EEU, Naganahalli.
- Online training programme on “Improved production technologies in Paddy” was organized by Extension Education Unit, OFRS, Naganahalli, Mysuru on 07.07.2021.
- Online training programme on “Uses of bio-fertilizers in Agriculture” was organized by Extension Education Unit, OFRS, Naganahalli, Mysuru on 09.07.2021.
- Online training programme on “Management of Fall armyworm in Maize” was organized by Extension Education Unit, OFRS, Naganahalli, Mysuru on 10.07.2021.

- Online training programme on “Production technologies of Minor millets” was organized by Extension Education Unit, OFRS, Naganahalli, Mysuru on 14.07.2021.

University of Agricultural Sciences, Dharwad

Establishment of COVID 19 vaccination centre at UAS, Dharwad

“In view of the global pandemic COVID 19, everybody should be very careful and follow SMS- Social distance, Mask and Sanitization and take both the doses of vaccination with specified interval”, urged



Vice-Chancellor, Dr. Mahadev B. Chetti inaugurated the COVID-19 vaccination centre at UAS, Dharwad by taking the 1st jab of the vaccination.

Vice-Chancellor, Dr Mahadev B. Chetti. He was speaking after inaugurating COVID 19 vaccination centre at UAS, Dharwad on 27.04.2021. On first day, 150 people were vaccinated at the centre. Registrar, Sri Ramesh Desai was instrumental in establishing the COVID 19 vaccination centre at UAS, Dharwad. All were requested to avail the facility. Vice-Chancellor, Dr Mahadev B. Chetti was the first person to take the vaccination. Officers, Teaching and Non-teaching staff were present on the occasion.

Agri War Room of UAS, Dharwad continues its services

In view of the global pandemic COVID 19, Agri War Room established at UAS, Dharwad on 16-04-2020 to cater to the problems and challenges faced by the farming community has continued in the wake of second wave of COVID 19. It may be recalled that, the Agri War Room was established to address the problems of the farming community, to create awareness about

COVID 19, to provide solutions to the agricultural problems, to provide market linkage to agriculture produce of the farmers, etc. All



Visit of Hon'ble Vice-Chancellor, Dr. Mahadev B. Chetti to Agri war room.

India Toll Free Number of Agri War Room is 1800-425-1150 and it is operational from 10.00 AM to 04.00 PM every day. Scientists will be available to answer to the questions of the farming community.

Agri Students Started Start Up Journey to address farmers problem

Eighteen groups of students of B.Sc. (Agri), Forestry and Community Science have started Start Up journey conceiving an idea to address specific problem of farmers. The main ideas addressed includes improved seed drills, weed management devices, harvesters, livestock feed, value addition to agri products, apps on labour management, etc. Students were encouraged and supported under World Bank Funded Institution Development Plan (IDP) at UAS, Dharwad.



Director of Krishikalpa Shri. C.M. Patil presenting about the process of start ups

Addressing a webinar, Vice Chancellor, Dr M.B. Chetti, UAS, Dharwad,



UASD Vice Chancellor Dr. M.B. Chetti, addressing the Students

expressed that students' ideas are very good and helped farmers to improve their farming operations and also add value to agricultural commodities. Students are provided with

technical and financial support to carry out their work. The prototypes are expected in six months, as they have completed validation of the idea. University is working in collaboration with Deshpande Start Up and other institute to commercialize the products. About 200 students and faculty attended the webinar.

International Yoga Day Celebrated

"Yoga is our best hope to beat COVID 19 pandemic and history was repeated after 50 years of independence in the country and people are embracing yoga to get health and wealth", said Vice Chancellor Dr



Hon'ble Vice-Chancellor Dr. M.B. Chetti and Dr. Mukthamath during the online webinar on "Be with Yoga Be at Home" organized at UAS, Dharwad on 21st June, 2021.

M.B. Chetti during the celebration of "Be with Yoga Be at Home" on the eve of 7th International Yoga day at UAS, Dharwad, organized under World Bank funded NAHEP-IDP project on 21.06.2021. He expressed that awareness and significance of yoga has reached each corner of world after resolution was passed in UN General Assembly under the leadership of Prime Minister of India Shri Narendra Modi to celebrate the International Yoga Day. It helps to keep physically and mentally fit to face any challenges in our life. Yoga expert Shri. Sandesh R. Hiremath advised that practicing yoga regularly will help us to be fit and improve our immunity. This is truly necessary in preventing the spread of COVID19 pandemic by promoting the mental health. Dr Umesh Mukthamath, Dr A.S. Vastrad and Dr B.N. Arvind kumar organized the webinar. More than 200 people participated the webinar.

Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani

VNMKV organized *Kharif* Farmers' Rally

Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, organized *Kharif* Farmers' Rally on 18th May 2021 on the eve of 49th University Foundation Day. Vijyaanna Borade,



Secretary, Marathwada Sheti Sahya Mandal Jalna was the Chief Guest. Dr Lakhan Singh, Director, ATARI, Pune was the Special Guest. Dr Ashok Dhawan, Vice-Chancellor of the University presided over the function. Dr D.B. Deosarkar, Director, Extension Education and Dr Jayashri Zend, Associate Dean and Principal, College of Community, were present on this occasion. Series of lectures on *kharif* crop production technologies followed by question-answer session was also organized on this occasion. Mobile App "Technologies for Farm Women" developed by the AICRP on Home Science, College of Community Sciences, Parbhani was released at the hands of Vice-Chancellor on this occasion. The mela was attended by 4,700 farmers.

Celebration of World Honey Bee Day

VNMKV, Parbhani celebrated "World Honey Bee Day" on 20 May 2021. On this occasion Krishi Vigyan Kendra, Aurangabad-1 in collaboration with Department of Agricultural Entomology, College of Agriculture, Parbhani organized One-day Virtual Training Programme on "Scientific Beekeeping". Training programme was



inaugurated by Dr Ashok Dhawan, Vice-Chancellor, VNMKV, Parbhani. In his inaugural speech Dr Dhawan urged to conserve the bees for sustainable environment. Dr Lakhan Singh, Director, ICAR-ATARI, Pune; Dr D.N. Gokhale, Director of Instructions and Dean, VNMKV, Parbhani and Dr D.B. Deosarkar, Director of Extension Education, VNMKV, Parbhani guided trainees on this occasion; 65 farmers and rural youths virtually attended the training programme.

ASSORTED ACHIEVEMENTS

Chaudhary Charan Singh Haryana Agricultural University, Hisar

CCS HAU Join Hands with University of New Zealand to Give New Heights to Education and Research,

CCS HAU, India and Massey University, New Zealand will now jointly work in the field of agricultural

research and education. For this, an online meeting of the officials of both the Universities was held recently which



CCS HAU VC Prof. B.R. Kamboj addressing the meeting

was presided over by the Vice-Chancellor of the University, Prof. B.R. Kamboj. The Vice-Chancellor said that the scientists of both the Universities would jointly cooperate with each other in research work. Also, both the Universities will promote joint degree and diploma courses so that the students can be encouraged and they can make their mark on the international level. He said that earlier also the students of the University had received training from Massey University in various fields. In future, exchange programs involving students and teachers will also be organized in which skills will be acquired in different areas

by cooperating with each other. Apart from this, provision of financial assistance will also be made while working on various projects.

CCS HAU student Ravindra Beniwal Selected for a Master's Degree in America

Mr Ravindra Beniwal, student of CCS Haryana Agricultural University, Hisar has been selected for a degree in the two-year postgraduate program at the University of Missouri in Colombia, USA. The Vice-Chancellor congratulated the student on his selection and wished him a bright future. He said that this will also inspire other students of the University and they will also try to get an education in the top-ranked Universities of the world. University Registrar and Dean, Postgraduate Studies also appreciated the hard work of the student and wished him to complete his studies. Convener of International Affairs said that and her student, Mr. Ravindra Beniwal has also been selected for a postgraduate degree program under the guidance of Dr Powell Somwat.

More than Two Crore Approved for Start-Up of ABIC Center: VC, CCS HAU

An amount of Rs 2 crore 13 lakh has been approved by the Department of Agriculture and Farmers Welfare, Government of India for agri startups of Agri



Business Incubation Center (ABIC) located at CCS Haryana Agricultural University, Hisar. Giving this information, the Vice-Chancellor of the University and the President of the ABIC Center said that this center has been set up in the University last year with the help of NABARD and National Agricultural Development Scheme. The main objective of ABIC is to promote new startups in agriculture and allied sectors. This incubation center has so far identified more than 90 agricultural

startups and is helping them grow their business. It is a matter of great pride for the University and the Agribusiness Incubation Center. Nodal Officer of ABIC said that under ABIC Center, 16 Startups were given 2 months training by more than 70 mentors from all over India, as a result of which they were able to establish a brand by bringing their business on the ground.

Books Exhibition

An exhibition was organized on the occasion of World Book Day at the Nehru Library of CCS HAU. The Vice-Chancellor of the University, Prof. B.R. Kamboj was the Chief Guest.

Addressing the program, he said that books are true guides of human beings, so one must read more and more books as they have the



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

essence of life. If a person considers books as his true guide, they have a solution to every problem in life. Reflecting on the purpose of celebrating this day, he said that the main purpose of organizing this day is to promote reading, publishing and copyright. This day was first started in 1995. During this, he appealed teachers to make students aware about the books of the teachers of the University through online medium in the form of a summary so that the students are attracted towards them and take inspiration. On this occasion, Librarian Prof. Balwan Singh welcomed the Chief Guest and gave detailed information about this exhibition.

Vaccination Camps Organized at KVKs of CCS HAU

CCS HAU has started Mega Vaccination Camp at KVKs established in each district of the State. Under this campaign, the first phase was started from *Krishi Vigyan Kendra*, Damla (Yamuna nagar). Dr Ram Nivas, Director

Extension Education, said that in the first phase, this campaign was conducted for the farmers associated with the center at Damla Krishi Vigyan Kendra, in



Vaccination Camp at one of the KVK

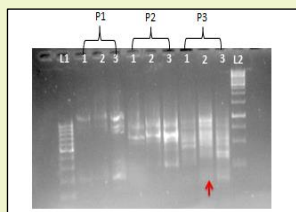
of the area affiliated to the Krishi Vigyan Kendra were vaccinated. He said that the University is always dedicated for the welfare of the farmers and in this series such campaigns will be run continuously at other external centers of the University in the State.

So far, seven Vaccination Camps have been organized for the employees, their families and students in the university campus and six testing camps have also been set up. Awareness campaign is being conducted to motivate the farmers for the success of the Vaccination Camp, so that people can be cleared of the misconceptions about vaccine and motivate them to get vaccinated.

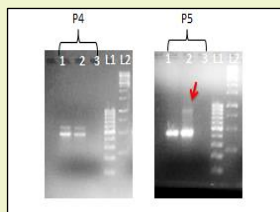
Dr Y.S.R. Horticultural University, Venkataramannagudem

DNA Finger Printing

DNA finger printing for turmeric variety LTS 2 was done at HRS, LAM, Guntur and Various marker viz., RAPD, ISSR and SSRs were used for distinguishing the candidate variety LTS 2 from its closely related variety Mydukur, which was taken for comparison and the report is given below:



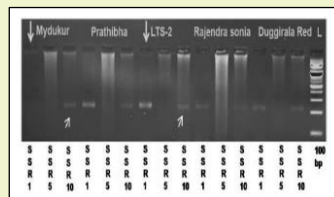
RAPD



ISSR

L1-100 bp Ladder, 1-Mydukur, 2 -LTS-2, 3- Duggirala Red, L2-1 Kb Ladder

RAPD Primers: P1- OPA2, P2 - OPB4, P3 - OPD3, ISSR Primers: P4 - UBC815, P5 - UBC825



SSR

SSR 10 (F: GGTTTCGTCGCTGGAAAGTAAT
R: GCATCTCAACAGGGGCTG)

Note: Bands marked in white and red colour denotes the polymorphic band which distinguishes the candidate variety LTS 2 from its closely related variety Mydukur.

NSS Special Camp

NSS special camp was conducted to 2017 admitted batch B.Sc. (Horticulture) IV-year students of CoH, Venkataramannagudem, from 3 to 9 April 2021 at the University campus and the adopted village Prakasaraopalem. The students were involved in the activities like cleaning the UG, PG class rooms and Sports complex; learning YOGA, Aerobics and Self defence techniques; conducted COVID Tests and medical camp at the college. An awareness rally on COVID Vaccination and Veterinary camp were conducted; preparation of hand sanitizer and sodium hypochlorite solution were demonstrated at Z. P. High School premises and Grama Sachivalayam of Prakasaraopalem village. NSS program Officers. Dr D.R. Salomi Suneetha, Professor, Dr R.V. Sujatha, Associate Professor, Dr A. Harsha Vardhan, Assistant Professor co-ordinated the camp under the supervision of Dr K. Uma Jyothi, Associate Dean of the College.

Group Meetings

Dr R. Nagaraju, Principal Scientist (Horticulture) and Head, Dr D. Sreedhar,

Scientist (Horticulture), Dr T. Naga Lakshmi, Scientist (Pl. Pathology) and Dr Y. Sharat Kumar Reddy, Scientist (Pl. Physiology), HRS, Anantharajupeta along with Dr K. Swarajya Lakshmi, Dr B. Tanuja Sivaram conducted elocution to the students of CoH, Anantharajupeta on “Postharvest management and value addition in Turmeric” on 6 April 2021 as a part of providing opportunity to students to present at District level turmeric training programme. One of the students Miss S. Pavani, AHM/20-21 from department of Postharvest technology got selected for further presentation at district level.

Jagananna Vidyadeevena

Jagananna Vidyadeevena program was organized at CoH, An-antharajupeta on 23 April 2021. A cheque of Rs 38,269,721 was issued to student beneficiaries and parents by the Department of Social Welfare, Rly. Kodur, YSR Kadapa district. The Associate Dean, staff and students participated in the program.

ELP Activities

College of Horticulture, Anantharajupeta organized an online interaction of ELP students on 27 April 2021. Dr T. Janakiram, Vice-Chancellor, Dr YSRHU, addressed the students of ELP. Dr A.S. Padmavathamma, Dean of Horticulture and Dr A. Sujatha, Dean of Student Affairs and NSS Programme Coordinator, participated in the programme and gave valuable suggestions.

Guest Lecture

Prof. Richard Lee, Rtd. Professor, University of Florida, USA and USDA-ARS Research Plant Pathologist delivered a talk on "Psyllid transmission of *Candidatus liberibacters* causing Citrus greening disease" to the postgraduate students of Plant Pathology and Entomology departments. Dr K. Sesha Kiran, Associate Professor (Plant Pathology), organized the lecture for the benefit of students. CoH, Anantharajupeta organized

demo and guest lecture by Garuda Aerospace Pvt. Ltd, Chennai, on 17 April 2021. They have explained the utility of drone technology in Agriculture and Horticultural crops and sprayed Hexaconazole + Chlorpyrifos + sticking agent on mango plants by using drone mount sprayer.

Special Lecture

Dr V.G. Malathi, Retired Principal Scientist, Advanced Centre for Plant Virology, Indian Agricultural Research Institute, New Delhi, delivered a talk on "Pathogenesis of Whitefly transmitted Begomo viruses" on 28 May 2021 for Postgraduate students of Plant Pathology and Entomology Departments, College of Horticulture, V.R. Gudem.

Awareness programme

Under adopted Village programme Dr K. Swarajya Lakshmi, Dr Ch. Ruth and Dr Chandramohan Reddy, CoH, Anantharajupeta have conducted awareness programme on “Nutri Garden” at Nagavaram an adopted village on 18 May 2021.

International Yoga Day

Dr A. Sujatha, Dean of Student Affairs & NSS Programme Coordinator participated in International Yoga Day with the theme of “Yoga for Unity and Wellbeing” on 21 June 2021 at CoH, V.R. Gudem



conducted by NSS Cell. In this programme, University Officers, Associate Dean, Physical Director, teaching staff and NSS volunteers of CoH, V.R. Gudem have participated. Dr K. Umajyothi, Associate Dean, CoH, Venkataramannagudem coordinated the programme, and also organized virtual meeting for staff and students of COH, Anantharajupeta on 20-6-2021 and 21-6-2021 on “Sudarshana Kriya” and “International Yoga Day”

respectively. Yoga experts Sri C. Pavan Kumar and his team from Marthanda Yoga Centre, Railway Kodur explained the importance of Yoga and meditation and guided the staff and students to practice Yoga asanas, pranayam, meditation etc. Dr B. Srinivasulu, Associate Dean, CoH, Anantharajupeta coordinated the programme.

Dr YSRHU 14th Foundation Day

Dr YSRHU 14th Foundation Day, was celebrated on 26 June 2021 by virtual mode under the chairmanship of Dr T. Janakiram, Vice-Chancellor. Dr P. Raghava Reddy, Ex-Vice-Chancellor, ANGRAU, participated as the Chief Guest, and delivered the Foundation Day lecture. All university officers, teaching and non-teaching staff of Dr YSRHU participated in the programme, and also made an MoU with ICAR- Central Agroforestry Research Institute, Jhansi. Dr B. Srinivasulu, Director of Extension co-ordinated the programme.

Declaration Dr YSRHU Year of Citrus 2021-22

Sri Kurasala Kannababu garu, Minister for Agriculture, Cooperation, Marketing and Food Processing, Government of Andhra Pradesh has announced the year 2021-22 as Dr YSRHU Year of Citrus 2021-22, and released Dr YSRHU Year of Citrus 2021-22, logo on 8 June 2021, in the august presence of Dr (Smt.) Poonam Malakondaiah, IAS, Special Chief Secretary to Government of Andhra Pradesh, Agriculture and Cooperation Department, Dr T. Janakiram, Vice-Chancellor and all the university officers.

Plantation Drive under Dr YSRHU Year of Citrus 2021-22

On 30 June 2021, planted citrus seedlings in all 42 institutes under Dr YSRHU under Dr YSRHU Year of Citrus 2021-22 programme. Dr T. Janakiram, Vice-chancellor, Dr. YS-RHU inaugurated the citrus mother block and planted acid lime variety Petluru Selection-1 at

KVK, Venkataramannagudem. All the university officers have also participated in citrus plantation drive.

Release of Dr YSRHU Udyana Panchangam 2021-22

Sri Kurasala Kannababu garu, Minister for Agriculture, Cooperation, Marketing and Food Processing, Government of Andhra Pradesh has released Dr YSRHU Udyana Panchangam 2021-22 on 11 June 2021.

Phone-in programmes

Sixty-nine phone-in programmes were conducted under Farmers Advisory Cell for the period of April-June 2021.

Udyana Vani

Sixty Udyana Vani programmes were conducted under Farmers Advisory Cell for the period of April-June 2021.

Udyana Mitra

Seven Udyana Mitra programmes were conducted under Farmers Advisory Cell for the period of April-June 2021.

Guru Angad Dev Veterinary and Animal Science University, Ludhiana

Setting up Model Gaushala

Dr Inderjeet Singh, Vice-Chancellor was instrumental in getting a project entitled "Setting up of Model Gaushala" to the tune of Rs 107.31 lakh from Punjab Government to be established at GADVASU. While acknowledging S. Tript Rajinder Singh Bajwa, Cabinet Minister, Rural Development and Panchayats, Animal Husbandry and Fisheries, Dairy Development, the Vice-Chancellor shared that S. Bajwa has vision to make streets of Punjab free from stray animals and this project was developed with his foresight on sustainable *Gaushala* management. The *Gaushala* will be aimed at managing the stray cattle on self-reliant basis on scientific lines with available

inexpensive techniques involving low cost comfortable housing, feeding and healthcare facilities. The same model can be replicated at *Gram Panchayat/Taluka* levels in the state/country. It will demonstrate the actual potential of stray cattle (a national resource) that can be harnessed in the form of income generation, genetic improvement of germ-plasm etc.

GADVASU COVID 19 Testing Laboratory adjudged as the Best Laboratory of the Country

The Indian Council of Medical Research (ICMR) along with UNICEF has selected the Viral Research and Diagnostic Laboratory (VRDL) of GADVASU for COVID 19 testing amongst 36 prominent best laboratories of India. The VRDL of GADVASU has been serving as an ICMR-accredited and dedicated Coronavirus Testing Laboratory since 1 August 2020, having completed testing of 340,000 samples up to 30 June 2021. The University is contributing its valuable resources, including expertise and manpower, to serve the community in difficult times of COVID 19 pandemic situation. The ICMR has provided the laboratory with additional high-performance instruments to further enhance its performance through automation. This is the only laboratory from Veterinary Sciences that has received this recognition.



Multi-Institutional Research Project

College of Animal Biotechnology bagged a multi-institutional research project of the Department of Biotechnology, Government of India, New Delhi on 'Modelling of indigenous diagnostics and immuno-potent vaccine candidates to combat African Swine Fever (ASF) in India'. The project for Rs 39.56 lakh grant to GADVASU aims to characterize the

circulating ASF virus in pigs and develop a point-of-care test to screen ASF in clinical samples for rapid and timely detection of the agent.

Pashu Palak Tele Advisory Kendra

GADVASU has established the Pashu Palak Tele-Advisory Kendra with National Bank for Agriculture and Rural Development (NABARD) funding. The Centre was inaugurated



jointly by Dr Inderjeet Singh, Vice-Chancellor of the University and Dr Rajiv Siwach, Chief General Manager, NABARD, Chandigarh. Dr Siwach highlighted the need of such projects in handling the uncertainties of livestock farming and assured of future collaborations of NABARD with GADVASU for such innovative and utilitarian projects for the farming community. Dr Inderjeet Singh highlighted that telecommunication will establish a strong linkage between the farmers and the University providing impetus to livestock farming in information deficit areas. Linking the centre to a Mobile App will further increase its utility.

Medicinal Plant Garden at Farmers Field

GADVASU initiated Medicinal Plant Gardening at Farmers Field under the Farmer FIRST Project entitled 'Integrated Approaches for Livestock Development: Farmers' Context' in Mehal Kalan (Barnala). The



project was sanctioned by the Agricultural Extension Division, ICAR, New Delhi. The concept of cultivation of medicinal plant as an allied agricultural activity will boost herbal cure of ailments of humans as well as animals

and can be taken up as a profitable proposition. Saplings of medicinal plants procured from AYUSH Center in GADVASU were provided to the beneficiary farmers.

GADVASU Organizes COVID 19 Vaccination Camps

Directorate of Clinics organized COVID 19 vaccination camp at Veterinary Hospital in association with Civil Surgeon Office, Ludhiana. A total of 405 individuals including clinicians, students and staff of the University got vaccinated in the camp.

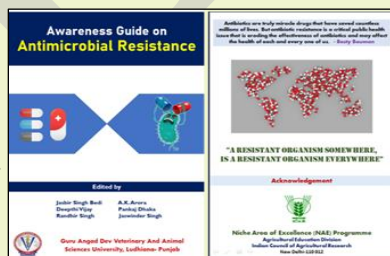


Besides, Centre for One Health also organized COVID 19 vaccination camp on the occasion of the World Health Day. Around 100 faculty and non-teaching staff members aged above 45 years were vaccinated.

Dr Inderjeet Singh, Vice-Chancellor of the University appreciated the efforts of the Central and State Government for doing wonderful job for the health and safety of citizens against COVID-19 pandemic.

Release of Awareness Guide on Antimicrobial Resistance

Dr Inderjeet Singh, Vice-Chancellor, GADVASU along with officers of the University released an 'Awareness Guide on Antimicrobial Resistance' under the aegis of ICAR Niche Area of Excellence project on Antibiotic



Resistance: Animal-Human Interface. Dr Singh emphasized that the guide will be a much-needed learning resource for field veterinarians and students, and sensitized them to the rising scourge of antimicrobial resistance. Dr H.S. Banga, Registrar and Dr J.P.S. Gill, Director of

Research applauded the team work of the University expert(s), and highlighted that the awareness guide will be a useful tool to strengthen the knowledge of field veterinarians to curtail the problem of AMR.

Odisha University of Agriculture and Technology, Bhubaneswar

Interface meeting on Doubling Farmers' Income

An Interface meeting on Doubling Farmers' Income in Odisha by 2022 with focus on Organic Farming was organized in the University in collaboration



with ANANYA, a voluntary Organisation on 18 December 2020 in digital mode. The meeting was graced by Mr. Pratap Chandra Sarangi, Minister of State, Ministry of Micro, Small and Medium Enterprises and Animal Husbandry, Dairying & Fisheries, Government of India; Dr Ashok Dalwai, Chief Executive Officer, National Rainfed Area Authority, New Delhi; Dr Trilochan Mohapatra, Director General, ICAR & Secretary, DARE, Government of India and other dignitaries. Dr Pawan Kumar Agrawal, Vice-Chancellor, OUAT presided over the meeting. Mr. Sukanta Panigrahi, Executive Secretary, ANANYA gave welcome address. Farmers from various parts of the state participated in the programme through virtual mode. Scientists of OUAT and ICAR institutes, Government officials, Extension specialists, representatives from industry and NGO personnel from various parts of the state participated in the programme.

Success story on mushroom cultivation by women SHG

Mushroom cultivation in Mayurbhanj district is getting accelerated due to increased interest of

farm women and members of Women SHG. Mrs Sasmita Mohanta president of Maa Ambika SHG of Angarpada village in Raruan Block of Mayurbhanj district obtained capacity building programme of WSHG organized at KVK, Mayurbhanj-II, Jashipur during 2019-20 with support from

Mission Shakti, Government of Odisha. She was trained about the skill of mushroom bed preparation, harvesting technique, bed maintenance, value addition



and market linkages. Subsequently, the KVK provided hand holding support to the group under TSP programme. She constructed a low cost mushroom unit with the help of WSHG members. She started mushroom cultivation along with the group members in newly constructed mushroom shed. At the end of September 2020, the group had 400 mushroom beds. With investment of Rs 20,880, there was gross income of around Rs 74,000 by selling mushroom. Mrs. Mohanta got a loan of Rs 1 lakh for mushroom cultivation. Till date, she has refunded back of Rs 23,000 to the bank from the profit. Now, the SHG has a target to supply 40 kg of mushroom per day. This has inspired other SHGs of nearby area to take up mushroom cultivation for profit. Some of them have approached the KVK for capacity building.

Sri Konda Laxman Telangana State Horticultural University, Telangana

- ARI 516 (H 516/MACS 516) is the first grape variety recommended for release and notified through ICAR-AICRP at 28th meeting of CVRC for Horticultural crops.

ARI 516 (H 516/MACS 516) is a promising juice variety for processing industry in Telangana region. The hybrid variety ARI-516 was developed by interbreeding of two species from the same genus — Catawba variety of *Vitis labrusca* and Beauty seedless variety of *Vitis vinifera*.

- Identified Sel No. 11 jamun accession with highest fruit weight and quality comparable with Konkan Bahadoli variety.
- Evaluated the performance of new crops like strawberry variety Nabila in Adilabad, and found it to be well adapted to the Northern Telangana conditions.
- Studies in HRS, Adilabad found that Kurfi Chipsona-3 is performing well under Northern Telangana conditions recording 25.6 t/ha yield.

Successfully conducted the first convocation of SKLTSHU

The SKLTSHU has conducted its first convocation on 7 April 2021

successfully and has issued PG and PhD degree certificates to all the eligible students (529) passed out during the period 1/05/2016 and 31/10/2019. A total of 12 gold medals were given to meritorious student in the presence of chief guest Dr Trilochan Mohapatra, Secretary DARE and DG ICAR and Dr Smt TAMILISAI Soundararajan, Governor of Telangana and Lt. Governor of Puducherry, Board of



First convocation of SKLTSHU, Mulugu



First convocation of SKLTSHU conducted online in the august presence of chief guest Dr. Trilochan Mohapatra, Secretary DARE and DG ICAR and Dr. Smt. TAMILISAI Soundararajan, Hon'ble Governor of Telangana & Lt. Governor of Puducherry

Management, Academic Council Members and Students and Parents in Virtual Mode.

Students Shifted to Mulugu Campus

Experiential learning programme was implemented at Mulugu main campus of SKLTSHU utilizing the existing infrastructure and Centre of Excellence for the final year B.Sc. students. A total of 74 final year students of College of Mojerla, were shifted to Mulugu, Administrative campus. They have been attached to Center of Excellence for conducting various modules under ELP.



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

Developed diagnostic assay for detection of goat warble fly infestation

Under ICAR-National Fellow Project, serum based indirect plate ELISA using recombinant hypodermis C for diagnosis of goat warble fly disease developed.

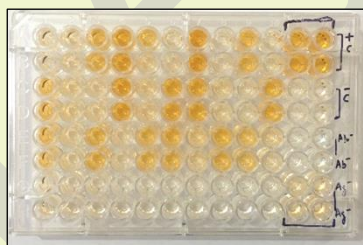


Plate Representative image, of sero-surveillance of random field samples using rHyC protein based indirect ELISA

The assay is a very sensitive and specific tool for sero-surveillance of goat warble fly infection and is a first of its kind in the world.

Besides, following research and extension activities were also undertaken.

Tamil Nadu Agricultural University, Coimbatore

Contribution of TNAU to COVID Relief Fund

Dr N. Kumar, Vice-Chancellor, TNAU handed over the contribution of TNAU staff and student to the 'Tamil Nadu Chief Minister's Public Relief Fund' to support the State Government's initiative to fight against the Covid pandemic. The contribution



amounting to Rs 2 crore was handed to Thiru M.K.

Vice-Chancellor, TNAU handed over contribution for COVID Relief fund to Hon'ble CM, Tamil Nadu

Stalin, Chief Minister of Tamil Nadu on 31.05.2021 in the presence of Thiru M.R.K. Panneerselvam, Minister of Agriculture and Farmers' Welfare, Thiru C. Samayamoorthy, IAS, Agricultural Production Commissioner and Secretary. Through voluntary contribution of their two days salary, employees of TNAU expressed their willingness to support the initiatives of the State Government. Students have also extended the helping hands on their part. This proactive contribution of teaching and non-teaching staff, farm workers and students of TNAU set an example among other organizations. The Chief Minister thanked the Vice-Chancellor for the contribution made to the Government of Tamil Nadu.

50th Foundation Day and Launching of Golden Jubilee Year of TNAU



50th Foundation Day and Launching of Golden Jubilee Year of TNAU

The 50th Foundation Day and launching of Golden Jubilee year of TNAU was held on 01.06.2021 through virtual mode. Dr A.S. Krishnamoorthy, Registrar, TNAU, welcomed the gathering. Thiru M.R.K. Panneerselvam, Minister for Agriculture and Farmers' Welfare and Pro-Chancellor of TNAU participated as Chief Guest and launched the Golden Jubilee year celebrations. The Minister in his Foundation day address emphasized the importance of TNAU in agriculture sector of the country, and applauded the TNAU graduates who are in different hierarchical positions both in private and public sectors. Dr N. Kumar, Vice-Chancellor in his address recollected the glimpses of TNAU over 50 years and its transformation as a University of Global Eminence. Dr Trilochan Mohapatra, Secretary (DARE) and Director General, (ICAR), New Delhi, appreciated TNAU's achievements in setting as an example to all other agricultural institutions across the country. Thiru C. Samayamoorthy, IAS, Agricultural Production Commissioner and Secretary to Government of Tamil Nadu in his address, lauded the University's contribution to increase the state food grain production to 100 lakh tonnes from 50 lakh tonnes during 1971. Dr M. Ramasami, Chairman and Founder, Rasi Seeds Pvt. Ltd, Attur, felicitated the gathering and insisted on collaborative research through public private partnership mode. Dr K.S. Subramanian, Director of Research, TNAU proposed vote of thanks.

TNAU is Ranked among the Top Agribusiness Management Schools

National Ranking of Agribusiness Management Schools was carried out by the Concept Agrotech Consultants Limited. The Consultancy Company catering exclusively to the agribusiness and rural sector assessed the universities based on industry orientation of the curriculum, innovation in pedagogy, fee structure, admission selection process, sports and fitness amenities, global exposure events,

students exchange program, extracurricular and co-curricular activities, industry interaction and webinars, relevant placement tie ups and scholarship facilities, etc., and declared TNAU's Agri Business Management as one of the top 15 Agribusiness Management Schools, which include IIMs also. The Department of Agricultural and Rural Management (ARM) offers Undergraduate, Postgraduate and Doctoral programmes in Agribusiness Management. The MBA (Agribusiness) programme offered by this Department is recognized by the All India Council for Technical Education (AICTE) and Indian Council of Agricultural Research (ICAR). The graduates from this Department are well placed in various Agri business sectors. Few graduates have become successful entrepreneurs in agribusiness as well.

TNAU Ranked Third Position among the State Agricultural Universities

TNAU, Coimbatore secured first position among Agricultural Universities located in Southern States and third position among 63 State Agricultural Universities at National level and 53rd rank among all the 150 Government Universities during 2021-22, bouncing back from 72nd ranking of last year by Education World India magazine based on the faculty competence, faculty welfare and development, research and innovation, curriculum and pedagogy (digital readiness), industry interface, placements, infrastructure, internationalism, leadership/governance and range and diversity of study programmes. This is due to result of major efforts taken by Prof. Dr N. Kumar, Vice-Chancellor and staff members. An intensive motivational drive was given to the young scientists and the entire research fraternity spread over in various locations of the institutions in Tamil Nadu who worked tirelessly to derive high score in certain areas like research and innovation, competence of faculty and leadership quality which increased

the score to 1009 during 2021 from 801 during 2020 out of total score of 1300.

Mass Awareness Programme on Organic Agriculture

Regional mass awareness programme on Organic Agriculture was organized by Department of Sustainable Organic Agriculture (DSOA), TNAU, Coimbatore and ICAR-IIFRS, Modipuram on 13.05.2021 through virtual mode in commemoration of 75th year of India's



Mass Awareness Programme on Organic Agriculture

Independence. Dr N. Ravishankar, Project Co-Ordinator, ICAR – NPOF, IIFSR, Modipuram, welcomed the delegates and participants. Dr S. Bhaskar ADG-AAFCC, NRM Division, ICAR the Guest of Honour, highlighted the significance of organic cultivation of fruits, vegetables and cotton which are highly remunerative crops with high demand in the International and local markets. Dr Peyush Punia, Director In-charge, ICAR-IIFSR, Modipuram emphasized the importance of Organic Agriculture and need for strengthening of marketing sectors to protect the interest of organic farmers. Dr V. Geethalakshmi, Director, Crop Management, TNAU, Coimbatore narrated the scope and importance of quality food materials in the present situation. More than 285 organic farmers from all over the Tamil Nadu participated in the programme.

Agricultural Minister visited KVK, Needamangalam

Thiru M.R.K. Panneerselvam, Minister for Agriculture and Farmers' Welfare visited KVK, Needamangalam on 15.06.2021 to review the activities. The Minister and the Members of Legislative Assembly (MLA) of Thiruvavur and Mannargudi planted trees in the KVK Premises.

The dignitaries also visited the Exhibition organized by the team of Scientists of KVK. The recent crop varieties released by TNAU were put on display besides the crop boosters.



Honourable Agricultural Minister visited KVK, Needamangalam

Minister inquisitively listened to a farmer's innovation of growing black soldier fly worms in a drum to feed the poultry birds. The Minister also distributed the inputs like seeds and crop boosters to the KVK contact farmers. Dr M. Ramasubramanian, Programme Coordinator, KVK explained about the activities of the centre. The Minister appreciated the activities of the Centre and motivated the scientists to reach more farmers of the district.

AWARDS

Anand Agricultural University, Anand

Best Centre Award 2020

In recognition of the outstanding contribution made in the weed management in Gujarat State, the team lead by Dr B.D. Patel, Agronomist and PI, AICRP-Weed Management,



Certificate of Excellence

BACA, AAU, Anand, was presented Best Centre Award-2020 of AICRP-Weed Management for the year 2020 as "OUTSTANDING ALL INDIA COORDINATED RESEARCH PROJECT ON WEED MANAGEMENT AWARD-2020" amongst all the AICRP centres on the 18th June 2021 by the Directorate of Weed Research, Jabalpur in the 28th Annual Review Meeting held online during 18-19 June 2021.

Dr Y.S.R. Horticultural University, Venkataramannagudem

- Dr YSRHU received “Best Extension Education Institute Award-2021” at National level under Agricultural Extension awards from Agriculture Today group on 9 April 2021.
- Dr YSRHU received Excellence in Skill Development Award -2021 at National level
- Dr S. Surya Kumari, Associate Dean, CoH, Chinalataripi is awarded with the “Andhra Pradesh Scientist Award- 2020” for her contributions in the field of Horticulture by Andhra Pradesh State Council of Science and Technology (APCOST), Government of Andhra Pradesh.

Guru Angad Dev Veterinary and Animal Science University, Ludhiana

Fellowship of National Academy of Veterinary Sciences (India)

National Academy of Veterinary Sciences (India) announced selection Dr Sarvpreet Singh Ghuman, Dean, College of Veterinary Science and Dr N.S. Sharma, Professor, Department of Veterinary Microbiology as Fellow of the Academy for the year 2019-20 in recognition of their noticeable service for the livestock development.



Dr. S.S. Ghuman



Dr. N.S. Sharma

Dr Jaspal Singh Hundal, Professor, Department of Animal Nutrition and Dr Nitin Dev Singh, Associate Professor, Department of Veterinary Pathology bagged the Membership of NAVS.



Fellowship of National Academy of Dairy Sciences, India (NADSI)

Dr Sarvpreet Singh Ghuman, Dean, College of Veterinary Science and Dr Parkash Singh Brar, Director of Extension Education, were bestowed with the prestigious Fellowship of National Academy of Dairy Sciences (India) for their valuable contribution in the field of Veterinary Science.



Dr. P.S. Brar

Dr Devendra Pathak, Senior Scientist, Department of Veterinary Anatomy; Dr Jaswinder Singh, Associate Professor, Department of Animal Husbandry Extension and Dr Harkirat Singh, Associate Professor, Department of Veterinary Parasitology bagged Associate Fellowship of National Academy of Dairy Sciences (India).



Fellowship of Academy of Microbiological Sciences (AMSc)

Dr Yashpal Singh Malik, Dean, College of Animal Biotechnology, was conferred with Fellow, Academy of Microbiological Sciences (AMSc) in recognition of his contribution in diverse areas of microbiology, which are both fundamental and applied values.



Prestigious Fulbright Fellowship for GADVASU Scientist

Dr Sidhartha Deshmukh, Scientist, Veterinary Pathology, GADVASU was selected for prestigious Fulbright-Nehru Academic and Professional Excellence Fellowship (2021-22). Dr Deshmukh will attend the University of Minnesota, United States for 9 months mandatory research and stay programme. He will undertake work on vaccine development against reoviral arthritis in poultry.



Fellow of Indian Association of Veterinary Public Health Specialists

Dr Jasbir Singh Bedi, Director, Centre for One Health, received the Fellowship of Indian Association of Veterinary Public Health Specialists (IAVPHS), for his valuable contribution in the field of Veterinary Public Health and Epidemiology.



Scientist Brings Laurels at International Level

Dr R.S. Sethi, Professor and Head, Department of Animal Biotechnology, College of Animal Biotechnology has been appointed as Adjunct



Professor in Department of Veterinary Biomedical Sciences, Western College of Veterinary Medicine, University of Saskatchewan, Canada for four years.

Surgeons Bag Young Scientist Awards

- Dr T.M. Rajasekaran, M.V.Sc. scholar of Department of Veterinary Surgery and Radiology got the 'Young Scientist Award' for research paper on 'Surgical Management of Pigmentary Keratitis in Pugs' presented in the National level canine conference 'Indian VETexpo-2021'.
- Dr Prem Sairam, Ph.D. scholar of Department of Veterinary Surgery and Radiology bagged 'Young Scientist Award' for research paper on 'Surgical Management of Humeral Condylar Fractures in Dogs' presented in the national level conference 'Indian VETopia-2021'.

Tamil Nadu Agricultural University, Coimbatore

TNAU Received National Award for Spices Research

Government of India-Mission for Integrated Development of Horticulture (GoI-MIDH) scheme on 'Seed and planting material

production and distribution and transfer of technology in spices', is being operated in the Department of Spices and Plantation Crops, Horticultural College and TNAU received National Award for Spices Research



Institute, Periyakulam, TNAU as lead centre funded by the Directorate of Arecanut and Spices Development (DASD), Calicut, Kerala. In this scheme, a total of 16 subcenters of various research stations and colleges of TNAU are involved. Production of quality planting materials of spice crops viz., black pepper, ginger, garlic, turmeric, chili, seed spices (coriander), nutmeg, clove, cinnamon, allspice, tamarind and curry leaf and aromatic plants are being taken up in these 16 centres of TNAU. Front Line Demonstrations (FLDs) on organic farming are being conducted in spice crops. During the Annual Review Meeting of GoI-MIDH conducted during 25-26th June 2021 through online mode, among the 45 centres participated from All India level, TNAU was adjudged as the best performing University for successful completion of the assigned programme of GoI-MIDH during 2020-21.

National Award (First Prize) for Best Thesis in Agricultural Extension

In commemoration of the 34th Foundation Day of MANAGE, Hyderabad held online on 11.06.2021, MANAGE presented the Best Agricultural Extension Thesis award at National level to Mr. S. Aravindh Kumar (2018-2020 batch)



National award for Best Thesis in Agricultural Extension received by TNAU Student

recognizing his research work in the area of Agricultural Extension. He did his Masters in Agricultural Extension and Communication under the guidance of Dr C. Karthikeyan, Professor (Agricultural Extension) in the Department of Social Sciences, AC & RI, TNAU, Killikulam. The thesis entitled 'Assessment of the Utility behavior of Uzhavan app among Farmers and Extension officers in Tamil Nadu' was adjudged as the best for which citation, certificate and a cash prize of Rs 50,000/- was awarded to the student. Shri Sanjay Agarwal, IAS, Secretary, Agriculture Cooperation & Farmers Welfare, Ministry of Agriculture & Farmers Welfare, Government of India, Dr P. Chandra Shekara, Director General, MANAGE and other dignitaries participated in the event.

Tamil Nadu Dr J. Jayalalithaa Fisheries University, Nagapattinam

Third Prize in KRITAGYA – A National Level Agtech Hackathon

The team headed by Dr N. Manimehalai, Professor and Head, DFPE and B.Tech. (FE) students; Mr. P. Santhosh Kumar and Ms. T. Mathavi



secured Third Prize in "KRITAGYA – A National Level Agtech Hackathon" conducted by ICAR. The team was felicitated with the cash award along with the certificates by Sri Narendra Singh Tomar, Union Minister of Agriculture and Farmers' Welfare, Government of India during the online award ceremony on 31.05.2021. The team presented a concept on a "Semi-automatic dry fish cutting machine with smart sensors" to reduce the drudgery involved in cutting dry fishes, and to enhance the safety of women involved in the dry fish cutting process. The proposed machine will have an Artificial Intelligence (AI) system to detect the fish surface and human

parts. The AI mechanism activates the sensors and stops the action of the cutting blade if it senses the human part.

University of Agricultural Sciences, Bengaluru

- AICRP on Dryland Agriculture, GKVK, UAS, Bengaluru center was accredited with ICAR - Chaudhary Devi Lal Outstanding All India Coordinated Research Project Award and cash prize of Rs. One lakh for being Best Coordinating Centre among 31 centres across the country, on 93rd ICAR foundation Day on 16 July 2021.
- AICRP on Forage Crops and Utilization, Mandya, UAS, Bengaluru center was accredited with Certificate of Appreciation towards development of technology Perennial grass based cropping system involving Bajra Napier Hybrid grass with *Sesbenia grandifolia* in Forage Crop Production by ICAR- AICRP on Forage Crops and Utilization, Jhansi, during National Group Meet on *Kharif-2021*.

Besides, many teachers have been bestowed with several awards, and were recognized for their contribution in the field of teaching/research/extension as follows:

- Dr N.G. Ravichandra, Professor and Scheme Head, AICRP on Nematodes, was conferred with Research Excellence Award-2020 by Institute of Scholars, Bangalore.
- Dr Vijayalaxmi Kamaraddi, Associate Professor, AICRP on Maize, bagged Best Oral presentation award for the oral presentation on "Assessment of suitability of selected rice varieties for production of rice noodles" at National Women's Food Science and Technology Conference 2020-21 on 8 March 2021 organized on the eve of "International women's day" by IIFPT Tanjavuru. Both physically and virtually.

- Dr Darshan, M. B., Assistant Professor, AICRP on PHET, was awarded with Scientist of the Year award by Society for Scientific Development in Agriculture and Technology, Meerut (Uttar Pradesh) on 21.07.2021 at International Web Conference on Innovative and Current Advances in Agriculture and Allied Sciences.
- Dr S.N. Nagesh, Assistant Professor, CoA, Hassan was awarded with International Best Researcher Award from VDGOD Professional Association, Hyderabad on 01/06/2021.

MOUs

Anand Agricultural University, Anand

MoU between AAU, Anand and GNFC, Bharuch

A Memorandum of Understanding was signed between Anand Agricultural University, Anand and Gujarat Narmada Valley Fertilizers & Chemicals Limited (GNFC), Bharuch, Gujarat on "Transfer of Data palm Tissue culture Technology" for duration of five year.



Dignitaries with MoU

MoU between AAU, Anand and Gujarat Organic Agricultural University, Halol

An MoU was signed between Anand Agricultural University, Anand and Gujarat Organic Agricultural University, Halol for Collaboration in Teaching, Extension



Dignitaries with MoU

Education and Research in Organic Farming with mutual interest. The tenure of this partnership shall be for upcoming five years.

Dr Y.S.R. Horticultural University, Venkataramannagudem

- Dr Y.S.R. Horticultural University, Venkataramannagudem entered into a Memorandum of Understanding (MoU) with National Institute of Technology (NIT), Andhra Pradesh, Tadepalligudem on 07.04.2021.
- Dr Y.S.R. Horticultural University, Venkataramannagudem entered into a Memorandum of Understanding (MoU) with Central Soil Salinity Research Institute, Karnal, Haryana.
- Dr Y.S.R. Horticultural University, Venkataramannagudem entered into a Memorandum of Understanding (MoU) with University of Horticultural Sciences, Bagalkot.

Sri Konda Laxman Telangana State Horticultural University, Telangana

SKLTSHU, Mulugu has completed the process of entering into MoU with PJTSAU, IIHR, NIPHM, AVRDC, CRIDA, Kalgudi, SERA and SAVE foundation.

Tamil Nadu Agricultural University, Coimbatore

MoA Signed with Coromandel International

Memorandum of Agreement was signed between Agricultural Engineering College and Research Institute, TNAU, Coimbatore and Coromandel International Ltd - Bio Products Division, Chennai on 25.06.2021 for developing harvesting and processing machinery suitable for neem processing. The Memorandum of Agreement was signed in the presence of the Dr

A.S. Krishnamoorthy, Registrar, Dr B. Shridar, Dean, AEC&RI, Coimbatore, Dr A. Surendra Kumar; Professor and Head, Department of Farm Machinery and Power



MoA signed by TNAU with Coromandel International

Engineering, Dr P. Rajkumar, Professor and Head, Department of Food Process Engineering along with concerned Scientists and Mr. L.K. Baburaj, Vice-President and Business Head, Dr Pushpavalli, DGM, Coromandel International Ltd-Bio products division.

MoU to Develop Methodology/Software

An MoU was signed between TNAU and Dr B. Krishnaraj Foundation and Gaiadhi, India to develop methodology/software to transform point-based

yield estimation into spatial yield estimation to account for the spatial variations in multiple factors that affect the



MoU signed by TNAU to develop methodology/Software

yield. The MoU was signed on 16.04.2021 by Dr A.S. Krishnamoorthy, Registrar on behalf of TNAU and Mrs. Parvathy Krishnaraj, Managing Trustee on behalf of Dr B. Krishnaraj Foundation in the presence of Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore and Director, Directorate of Extension.

Vasanthrao Naik Marathwada Krishi Vidyapeeth, Parbhani

MoU Signed Between College of Food Technology, Parbhani and KVK, Baramati

MoU have been signed between College of Food Technology, VNMKV, Parbhani and KVK,

Baramati on 25 June 2021 for work on Research and Development in Food Processing and implementation of PM Formalization of Micro Food Processing Enterprises Scheme (PM-FME) in the state. The scheme is

launched by the Ministry of Food Processing Industries,

Government of India under Atmanirbhar Bharat Abhiyan. The scheme aims at skilled and semi-skilled employment through access to information, training, better exposure and formalization. MoU was signed by Dr U.M. Khodke, Associate Dean and Principal, College of Food Technology, VNMKV, Parbhani and Dr Milind Joshi, Programme Coordinator, KVK, Baramati in presence of Dr. A.S. Dhawan, Vice-Chancellor, VNMKV, Parbhani; Dr DN. Gokhale, Director of Instructions and Dean, Faculty of Agriculture, VNMKV, Parbhani, were present on this occasion.



MoU signed between VNMKV, Parbhani and ICAR- IOR, Hyderabad

MoU was signed between VNMKV, Parbhani and ICAR-Indian Institute

Oilseed Research, Hyderabad for Research on oilseeds. MoU

was signed by Dr D.P. Waskar, Director of Research, VNMKV, Parbhani and Dr M. Sujata in presence of Dr A.S. Dhawan, Vice-Chancellor, VNMKV, Parbhani on 22 March, 2021. MoU will be helpful for strengthening research work in both the institutes. Similarly, it will be useful for research work of M.Sc. and Ph.D. students, sharing of technical information, oilseed processing and technology transfer.



TECHNOLOGIES COMMERCIALIZED

Dr Y.S.R. Horticultural University, Venkataramannagudem

The university has commercialized coconut technologies through Memorandum of Understanding (Non-exclusive basis). The details are as follows.

Commercialization of Coconut technologies: *Dichochrysa astur* nucleus culture and Technology transfer.

PATENTS

University of Agricultural Sciences, Bengaluru

Patent granted

- Enhanced loop-mediated isothermal amplification method for detecting latent xap Infection in pomegranate, patent no.-2021101342, date of grant 28.4.2021 and the inventors are Kumar, M.K. Prasanna; P., Buela Parivalla; H.B., Mahesh; D., Pramesh and Prasad, S. Rajendra.
- An apparatus for sugarcane propagation and a method thereof, patent no.-2021102640, date of grant 16.6.2021, and the inventors are T.E., Nagaraja, Yadav, Suresh and Shadakshari, Y.G.

FUTURE PROGRAMMES/ IMPORTANT EVENTS

Anand Agricultural University, Anand

18th Annual Convocation of Anand Agricultural University

Anand Agricultural University will host its 18th Annual Convocation ceremony in upcoming months. The degrees will be awarded to the

students who graduated from the institute during previous year. Meritorious students will be awarded medals and cash prizes during the event. Apart from this a Best Teacher, Best Research and Best Extension awards will also be awarded to the faculties.

Amrit Mahotsav Celebration of B.A. College of Agriculture, AAU, Anand

This year, the B.A. College of Agriculture, one of the oldest agriculture colleges in Western India, established during pre-independence era is achieving age of 75 years of glory. As a part of this successful journey, the college will be celebrating its "Amrit Mahotsav" in upcoming months. A large number of alumni, working in various fields around the globe are expected to be a part of this grand event. The key programme themes, plan, brochure will be available soon on University website of the golden jubilee celebrations. Dr K.B. Kathiria, Vice Chancellor of Anand Agricultural University is planning to exhibit vintage possessions of the institute when the College was established.

Guru Angad Dev Veterinary and Animal Science University, Ludhiana

Central Laboratory Facility

A central laboratory facility with high-end instrumentation is being established at College of Animal Biotechnology as a hub for all students/faculty to conduct their research. The laboratory will also cater to the ongoing research projects of different departments and colleges of the University.

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

- 2 months training to candidates selected under RKVY-RAFTAAR project for the development of Agri-startups.

- Fisheries Unit will organize trainings for farmers and unemployed youth in near term as well as submit the proposal for the establishment of Faculty of Fisheries in SKUAST, Jammu. A proposal has also been submitted to the university for up-gradation of Fisheries Unit into Division of Fisheries and institutionalization of Masters of Fisheries Science (M.F.Sc.) at SKUAST-Jammu, Chatha.
- Division of Food Sciences and Technology
 - Value addition of local broken Basmati rice
 - Utilization of industrial waste and by-products
 - Exploitation of wild and underutilized fruits for value added products
 - Development of convenience food, viz. instant soup mix and nutri-bar.
- Under DBT (SRI) project demonstration of SRI technology will be taken up at farmers' fields; distribution of inputs like sprayer pumps, etc.; training on vermicomposting and distribution of vermicompost kits, etc.
- Under SC-SP, awareness campaign and distribution of inputs to SC farmers.
- Division of Plant Pathology
 - Evaluation of novel molecules against major diseases of field and horticultural crops.
 - Epidemiological study and disease forecasting against major plant diseases.
 - Evaluation of resident isolates of biocontrol agents against major soil borne diseases for development of IDM module on various crops.
 - Standardization and popularization of cultivation technology of new mushrooms in Jammu Division.
- Vegetable and flower day shall be organized.

Tamil Nadu Agricultural University, Coimbatore

- International Horticulture Conference - NEXTGEN - HORT 2021 will be organized by HC&RI, TNAU, Coimbatore. Date: 16 - 19 September 2021.
- Global Rice Conference to be organized by Tamil Nadu Rice Research Institute (TRRI), TNAU, Aduthurai - Date: 24 - 25 September 2021.
- International Conference on Moringa - The Super Food - Date: 06 - 10 October 2021.
- International Conference on Future Challenges and Prospects in Plant Breeding organized by Centre for Plant Breeding and Genetics (CPBG) - Date: 06 - 07 October 2021.
- International Conference on Agricultural Genomics - Progress and Prospects organized by Centre for Plant Molecular Biology and Biotechnology - Date: 21 - 23 October 2021.

NEW VICE CHANCELLORS

Chaudhary Charan Singh Haryana Agricultural University, Hisar

PROF. B.R. KAMBOJ

Prof. B.R. Kamboj has been appointed as the new Vice-Chancellor of CCSHAU, Hisar. Previously Prof. Kamboj was holding the post of Registrar of the University. Dr Kamboj has been a student of this University and before becoming Registrar, he was a Senior Coordinator at the KVK Yamuna Nagar of the University. He is a level scientist of international level, and many of his research papers have been published in international journals.



Tamil Nadu Veterinary and Animal Sciences University, Chennai

Dr K.N. SELVAKUMAR

Dr K.N. Selvakumar has been appointed as the eleventh Vice Chancellor of Tamil Nadu Veterinary and Animal Sciences University, Chennai, and



assumed charges on 09.04.2021. Born on 15.05.1962 in Erode District of Tamil Nadu, Dr K.N. Selvakumar earned his B.V.Sc. from Madras Veterinary College, M.Sc., from Tamil Nadu Agricultural University, Coimbatore, and Ph.D., from University of Agricultural Sciences, Bengaluru in the discipline of Agricultural Economics with specialization in Livestock Economics.

He has a vast experience of more than 32 years in the field of Animal Husbandry Economics and headed the Department of Animal Husbandry Economics, Madras Veterinary College for more than 16 years. As a University Officer he held several positions including Dean, Veterinary College and Research Institute, Orathanadu, Thanjavur; the Controller of Examinations (in-charge), TANUVAS; the Director of Distance Education, TANUVAS (2018-20); and was the Dean, Madras Veterinary College, Chennai (2020-21), before assuming charge as the Vice-Chancellor of TANUVAS.

Dr K.N. Selvakumar had to his credit 20 externally funded projects, and 191 publications including 84 full length research papers. He has guided 4 PhDs and 10 PGs as Chairman, and 8 PhDs and 20 PGs as a member of the advisory committee. He was trained on “Farm Business and Financial Management” at the University of Queensland, Australia under AHRDP-FAO funding. Dr K.N. Selvakumar has 14 awards to his credit. He

has served as Editor-in-Chief/Editor/ Member of Editorial Boards of eight journals.

Under the untiring guidance of Prof. M.S. Swaminathan, he developed “Technology Achievement Index” for Indian Livestock Sector. His works on ‘Evaluation of major livestock schemes of Tamil Nadu’, ‘Milk Price Policy Model’, ‘Impact Evaluation and Research Prioritization’ were acclaimed high.

As an administrator, Dr K.N. Selvakumar had an impeccable role in the UG and PG admission process of TANUVAS. With an experience of over 25 years, a sound and foolproof students’ admission system has been developed at the University.