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From the Desk of the Vice-Chancellor



Besides grooming the academic and research proficiency of students, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana focuses on their holistic development through socio-cultural and sports activities. The 11th Inter-College Youth Festival of the University was organized with great zeal, providing students an opportunity to explore and showcase their talent for self-actualization through participation in various competitive events. The presence of S. Laljit Singh Bhullar, Hon'ble Cabinet Minister, Animal Husbandry, Fisheries and Dairy Development and Transport Department in the Youth Festival and his energizing motivational words added a new vigor amongst the participants.

The University provided international exposure to students by sponsoring their visit to Brazil, and hosting the expert(s) from Australia and Thailand, who shared their wisdom and experiences with the students at University campus under Institutional Development Plan (IDP-NAHEP) operational at GADVASU. In addition, the renowned experts from various prestigious institutions of the country also imparted skills to the University fraternity under this project. The University scientists brought laurels to the institution by earning research projects from National Fisheries Development Board (NFDB), Hyderabad and Institut de recherche pour le developpement Montpellier (France). The faculty members also earned various awards including fellowships of leading professional societies.

Extending its services to the public in general, the University organized an impressive 'Dog Show' providing a common platform to the pet lovers, breeders, dog feed manufacturers and other stakeholders. The scientists of the University delivered expert advice to the visitors and addressed their queries. Such events help to put forth a nurturing instinct and learning to care for animals, fostering the development of a sense of responsibility and caring amongst folks. Similarly, a fish festival was organized to promulgate the conservation of aquatic resources for sustainable socio-economic benefits.

The University regularly conducts conference(s), workshop(s), training(s), seminars, webinar(s), field visit(s) etc. for dissemination of scientific knowledge to the end users, viz. farmers, entrepreneurs, and other stakeholders. Besides printed literature, the University makes use of technologies like mobile application(s), YouTube, social media sites etc., for dissemination of technical knowledge. The Krishi Vigyan Kendras of the University are also rendering expert services in respective regions.

I am quite sure that the GADVASU fraternity will continue with their ardent efforts for further progression of the Animal Husbandry and Fisheries sectors.

(Inderjeet Singh)
Vice-Chancellor

University Organizes 11th Youth Festival

Directorate of Students Welfare organized the 11th Inter-College Youth Festival of the University with a great fervour. Dr. O.P. Chaudhary, IFS, Joint Secretary, National Livestock Mission and Chairman, Animal Welfare Board of India inaugurated the youth festival as the Chief Guest. Dr. S.S. Gosal, Vice-Chancellor, Punjab Agricultural University, Ludhiana graced the occasion as the Guest of Honour. The week-long cultural extravaganza took in its ambit the competitions in 25 events encompassing fine arts, theatre, singing, dances, literary events, etc. A total of 200 students from all constituent colleges of the University and an affiliated college actively participated in the festival.



S. Laljit Singh Bhullar, Hon'ble Cabinet Minister, Animal Husbandry, Fisheries and Dairy Development and Transport Department was the Chief Guest on the closing ceremony. The minister applauded the dedication and performances of the participants and appreciated the University for encouraging participation of girl student(s) in various extra-curricular activities. Dr. Inderjeet Singh, Vice-Chancellor presided over the function and opined that such festivals are important for up-liftment of overall personality of the students.



The renowned Punjabi Singer(s) enthralled the audience with their songs on important issues of society. Alumni of the University, Dr(s). Kewal Arora, Jasvir Mehram, Arpan, and the renowned artists Sh. Ravinder Ranguwal were honoured for their distinguished services in the field of art and culture. College of Fisheries won the Overall Trophy and College of Dairy Science and Technology won the Runners Up Trophy in this youth festival.

Dog Show

GADVASU organized 'Dog Show' bringing veterinarians, breeders, pet lovers dog feed manufacturers at a single platform. The event witnessed an overwhelming response from the public. Dr. Kamal Kumar Garg, IAS, inaugurated the show. He highlighted the importance of dogs as pets of choice owing to their co-evolution with society and expressed his conviction that the show would be a valuable platform in promoting canine reproduction, health and societal well-being.



Dr. Inderjeet Singh, Vice-Chancellor, GADVASU said that the importance of pets is increasing with the rise in nuclear families and this exhibition presented a chance for all stakeholders to discuss various issues related to the welfare of pet animals.

Dr. H S Banga, Registrar of the University asserted that such events help to demonstrate the strong bond and companionship between humans and pet animals. Breed competitions were held across eight categories of dogs, wherein more than 125 owners showcased their dogs. A large number of breeders exhibited different breeds of dogs, cats and birds at the venue. A skill show by dog squad of the Home Guards was also arranged. An exhibition of feed and health supplements, grooming kits, bedding and other accessories was held by the industry.



Dr. Satbir Singh Gosal, Vice-Chancellor, Punjab Agricultural University was the Chief Guest during the 'Valedictory Function'. Sh. Ashvinder Singh and Major Amarjit Bath were honoured for their service of stray dogs.

Fish Carnival

College of Fisheries organized 'Fish Festival' with a carry home message to conserve ecosystem services of aquatic resources for long term socio-economic benefits. Dr. Inderjeet Singh, Vice-Chancellor of the University inaugurated the festival and highlighted the importance of celebrating such events to bring to fore the importance of natural resources in food and livelihood security, along with human responsibilities towards conservation of these resources.

To create awareness and promote consumption of fish amongst folks, mouth-watering 'Ready to eat'/'Ready to Cook' fish products and fish protein supplemented fast food(s) were displayed and sold in the festival.





Activities under Institutional Development Plan (IDP) - NAHEP



Visit of academic contingent to Brazil



Students and training coordinator with the Vice-Chancellor

Five undergraduate students of College of Veterinary Science alongwith their training coordinator, Dr. Anuradha Gupta, Professor, Department of Veterinary Anatomy attended an international training programme of 2-week duration on “**Sustainable Management of Animal Diseases in Subtropical Scenario**” at Federal University of Minas Gerais, Brazil to experience professional excellence internationally alongside the mandate of university i.e. globalization of education and research.

College of Dairy Science and Technology hosts international visiting professor



Australian scientist with CODST fraternity

College of Dairy Science and Technology hosted visiting professor Dr. Anthony Richard Blencowe from the University of South Australia, Adelaide, Australia for two weeks. Dr. Blencowe interacted with students and educated them in the different research areas including anti-microbial polymers and interfaces, biomaterials for the controlled delivery of drugs, cell therapies and 3D printing for laboratory research.

International Scientists Visits GADVASU



International scientists at College of Fisheries

Professor (Dr.) Soottawat Benjakul, Director of International Centre of Excellence in Seafood Science and Innovation (ICE-SSI), Prince of Songkla University (PSU), Thailand and Dr. Kartik Baruah, Associate Professor, Aquaculture Nutraceuticals Research Group, Swedish University of Agricultural Sciences (SLU), Sweden visited College of Fisheries for one week as ‘International Visiting Professors’.

Technical Lecture on “Ethical Dairy Business Plan for India”



Expert lecture in progress

College of Dairy Science and Technology organized a technical lecture on “**Ethical Dairy Business Plan for India to Double the Income of Dairy Farmers**” for the University fraternity. S. Jaswant Singh Bhandair, Mission Director, International Improvement Mission deliberated with participants regarding significance and purity of milk, and demonstrated his in-house developed technology and prototype for pasteurization and extension of shelf life of milk beyond seven days.

Guest Lectures



- Dr. Dhinakar Raj G., Professor and Head, Department of Animal Biotechnology, Madras Veterinary College delivered lectures to the students at Department of Veterinary Microbiology, College of Veterinary Science, GADVASU from 12-6 December, 2022 as guest faculty.
- Dr. Suprita Sinha, Manager, Indian Immunologicals Limited, Hyderabad delivered lectures to the students of Department of Veterinary Microbiology, Department of Veterinary Microbiology, College of Veterinary Science on 17 November, 2022.



- Dr. Y. Singh, Senior Scientist and Head, Science and Technology Division, Indovax Pvt. Ltd. Hisar, delivered lectures to student in Department of Veterinary Microbiology, College of Veterinary Science during 1-2 December, 2022.



- Dr. Dinesh Singh Rawat, General Manager-India Genus Breeding India Pvt. Limited, Pune delivered guest lectures in the Department of Veterinary Microbiology, College of Veterinary Science on 7 December, 2022.



- Dr. Guddeti Sreenivasa Reddy, Senior Vice President (Retired), Indian Immunologicals Limited, Rakshapuram, Gachibowli Post, Hyderabad, delivered lectures to students of GADVASU on 18 November 2022 under the Industry Expert Programme for Improved Learning Outcome.



- Dr. Omesh Bharti, Padma Shree delivered lectures to students of GADVASU on 7 October, 2022.



- Dr. Ankur Rastogi, Professor (Animal Nutrition), Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, delivered lectures to students of GADVASU under Students Skill Development Programme on 22 and 24 November, 2022.
- Dr. Yogesh Saini, Associate Professor, Comparative Biomedical Sciences, School of Veterinary Medicine Louisiana State University, USA visited GADVASU as Guest Faculty.

Award(s)/Honour(s)/Recognition(s)

Life Time Achievement Award

Dr. Inderjeet Singh Vice-Chancellor GADVASU Ludhiana was conferred with the Lifetime Achievement Award of National Academy of Veterinary Nutrition and Animal Welfare, India, during the 19th International Biennial Conference of Animal Nutrition Society of India (ANSICON-2022) held at GADVASU, Ludhiana.



Fellowships of National Academy of Dairy Sciences (India)

Six scientists from GADVASU were conferred prestigious fellowship and associate fellowship by National Academy of Dairy Science (India) (NADSI) in its 7th convocation and National Dialogue on “**Innovations in Reshaping the Indian Dairying**”, held at U.P. Pandit Deen Dayal Upadhaya Pashu Chikitsa Vigyan Vishwavidyalaya evam Go Anusandhan Sansthan (DUVASU), Mathura, Uttar Pradesh.



- Dr. Yashpal Singh Malik, Dean, College of Animal Biotechnology and Dr. Nirbhay Kumar Singh, HoD, of Veterinary Parasitology were awarded Fellowships by NADS(I).
- Dr. Jaspal Singh Hundal, Dept. of Animal Nutrition; Dr. Nitin Mehta, Dept. of Livestock Products Technology, Dr. Santosh Kumar Mishra, Dept. of Dairy Microbiology and Dr. Sunil Kumar Khatkar, Dept. of Dairy Technology were inducted as Associate Fellows in NADS(I).

Fellowship of IAVP

Indian Association of Veterinary Pathologists (IAVP) awarded Fellowship to Dr. Kuldip Gupta, Professor, Department of Veterinary Pathology, College of Veterinary Science.



Fellow of Indian Association of Veterinary Public Health Specialists

Dr. Randhir Singh Saini, Professor, Centre for One Health has been nominated as Fellow of Indian Association of Veterinary Public Health Specialists, India at International Symposium 2022 cum XVIII Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS), held at ICAR Research Complex for NEH Region, Umium, Meghalaya.



Fellowship of Indian Ecological Society

Dr Vaneet Inder Kaur was conferred with ‘Fellow of Indian Ecological Society’ in ‘Indian Ecological Society International Conference-2022 (IESIC 2022) - ‘Sustainable Agricultural Innovations for Resilient Agri-Food Systems’ held at Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, India.



Scientists bag awards at Annual Convention of the Indian Association of Veterinary Anatomists

The scientists of the Department of Veterinary Anatomy, College of Veterinary Science, GADVASU were bestowed with prestigious awards during the 36th Annual Convention of the Indian Association of Veterinary Anatomists held at Udaipur from 20-22 December 2022.

- Dr. Varinder Uppal, Professor and Head, was conferred with the esteemed Dr. V. R. Bhamurkar award for ‘Anatomist of the Year’.
- Dr. Devendra Pathak, Senior Scientist was conferred with Fellowship of the association.
- Dr. Kritima Kapoor, Assistant Professor, won Dr. KS Roy award and medal for best paper presentation in the session Histo-enzymology and immunohistochemistry.
- Ph.D. and Masters students, Dr. Amit Poonia, Ms. Roop Kiran, Mr. SAV Manikanta Sarma and Dr. Kanle Shivani Tatyrao received awards for their research paper presentations.



Scientists bag awards at National Congress of Veterinary Parasitology

- Dr. Nirbhay Kumar Singh, Professor -cum-Head, Department of Veterinary Parasitology was awarded 25th MVC-NCVP Mid-career Excellence Award-2021 by the Indian Association for the Advancement of Veterinary Parasitology (IAAVP) during the XXXI National Congress of Veterinary Parasitology, held at Odisha University of Agriculture and Technology, Bhubaneswar from December 6-8, 2022.
- Dr. Harkirat Singh, Professor, Department of Veterinary Parasitology was awarded the Best oral presentation award for the abstract entitled “Molecular survey of tick-borne haemoparasites of dogs by multiplex polymerase chain reaction from Punjab, India”.



Scientists bring laurels at International Conference

The scientists and students of Centre for One Health, participated in the International Conference on ‘One World, One Health’, organized under Erasmus+ Program of the European Union funded project PREVENT IT at Chitkara University, Punjab, and delivered their research findings in addressing antimicrobial resistance.



Dr. Pankaj Dhaka, Assistant Professor, Hina Malik, Ph.D. Scholar and Manjeet Sharan, MVSc Scholar were awarded with Best Oral Presentation Awards.

Editorship of Indian Journal of Animal Reproduction

Dr. Ajeet Kumar, Professor, Department of Veterinary Gynaecology and Obstetrics was nominated as the Editor-in-Chief of the Indian Journal of Animal Reproduction (Official publication of Indian Society for Study of Animal Reproduction).

Scientist awarded by Indian Society of Parasitology

Dr. L.D. Singla, Professor, Department of Veterinary Parasitology was awarded with Dr. B.P. Pandey Memorial Oration Award by the Indian Society of Parasitology during the 31st National Congress of Parasitology on “Global Technological Advancements in Diagnosis and Sustainable Control of Parasitic Diseases” held at Madras Veterinary College, Vepery, Chennai, during 10-12 November, 2022.



Research Projects Earned

College of Biotechnology bags DBT Project

College of Biotechnology earned a Department of Biotechnology (DBT), Government of India project on “Elucidating Male and Female specific Factors Associated with T-regulatory cells *vis-a-vis* Fertility in Buffalo” worth Rs. 39.98 lakhs. Dr. Vishal Sharma, Assistant Professor is Principal Investigator of the project.



College of Fisheries Gets Research Project from National Fisheries Development Board

College of Fisheries bagged Rs. 19.47 lakhs project on “**Demonstration of growth performance, health status and meat quality of Biofloc Raised Fish in Northern India**”, from National Fisheries Development Board (NFDB), Hyderabad, Telangana. Dr. Vijay Kumar Reddy, Principal Investigator of the project, informed that it will be useful in socio-economic and quality evaluation of fish produced in an intensive aquaculture system called ‘Biofloc Aquaculture System (BFAS)’.



Project on Evaluation of Atypical-Human Trypanosomiasis

Dr. L.D. Singla, Professor, Department of Veterinary Parasitology earned a project entitled “Preliminary Evaluation of Atypical-Human Trypanosomiasis (a-HT) due to *Trypanosoma evansi* in India” funded by Institut de recherche pour le développement Montpellier (France) worth Rs. 5.98 lakhs.



Conference(s)/Workshop(s)/Training(s)/Seminar(s)/Webinar(s)

International Conference of Animal Nutrition Society of India

Department of Animal Nutrition, GADVASU held the 19th International Biennial Conference of Animal Nutrition Society of India (ANSICON-2022) under the theme “**Nutritional Technologies to Augment Livestock, Poultry, Canine and Fish Production for Global Competitiveness**”.



Dr. D.V.R. Prakasha Rao, President, National Academy of Veterinary Sciences (NAVS) graced the inaugural function as the Chief Guest. Dr. Rao emphasized on utilization of byproducts emerging from agriculture and livestock sector in animal feed for judicious use of waste material and to cut across the animal feed costs.



A total of 400 stakeholders took part in the conference. Research outcomes on various aspects of animal nutrition *viz.* nano-minerals in dairy industry, precision dairy nutrition, nutritionally improved fodder for animals, nutrigenetics, importance of organic acids in animal nutrition and trends in canine nutrition were showcased during the conference.

International training on “Augmentation of Fertility in Buffaloes”

GADVASU organized an international training on “**Augmentation of Fertility in Buffaloes**” sponsored by International Livestock Research Institute (ILRI), Nairobi, Kenya. A total of nine veterinary officers/livestock development officers/scientists from various organizations of Nepal participated in the training programme and chiseled up their knowledge and skills regarding buffalo reproduction specifically on delayed puberty, anestrus, seasonal breeding, infertility, uterine torsion, uterine infections, etc. They were also apprised about the novel techniques including superovulation, embryo transfer, semen cryopreservation, estrus synchronization, handling of semen, sexed semen technology, etc.



Dr. Habibar Rahman, Representative of South-East Asia, ILRI was the Chief Guest during the valedictory programme. Dr. Inderjeet Singh, Vice-Chancellor, GADVASU ascertained that the training will open up the new areas of collaboration between India and Nepal.



Celebration of World Antimicrobial Awareness Week



Centre for One Health celebrated the World Antimicrobial Awareness Week and conducted many educational and awareness activities including extempore, poster competition, rangoli contest on this year theme of “**Preventing Antimicrobial Resistance Together**”. Dr. Souvik Ghosh, Professor, Ross University School of Veterinary Medicine, St. Kitts & Nevis, West Indies delivered a guest lecture during the event.

Celebration of World Soil Day

The College of Animal Biotechnology and College of Dairy Science and Technology celebrated ‘*World Soil Day*’ on 05 December 2022. On this occasion, poster, collage and rangoli making competitions were organized to generate awareness amongst the University fraternity and general public on importance of healthy soil for healthy life.



Tree plantation drive

Dr Meharban Singh Kahlon, Principal Soil Physicist, Department of Soils, Punjab Agricultural University, delivered a lecture on “*The Importance of Soil Health*”. Students also recited the messages received from Sh. *Narendra Singh Tomar*, Hon’ble Minister of Agriculture & Farmers Welfare, Govt. of India and Dr. Himanshu Pathak, Secretary, Department of Agricultural Research & Education and Director General, ICAR, New Delhi.

Training on Goat Farming



Training on goat farming

Department of Veterinary and Animal Husbandry Extension Education organized a training on “Goat Farming”. A total of 35 trainees participated in the programme. Expert(s) imparted knowledge on scientific practices pertaining to ideal housing, breeding goals, balanced nutrition and health management of goats. Practical demonstrations on handling goats and value addition of meat were conducted. The importance of goat milk along with its value addition was emphasized.

Deliberation on Pig farming



Participants of seminar with the University expert(s)

Directorate of Extension Education organized a seminar for Pig farmers wherein 40 farmers took part and learnt about the latest developments and technology in pig farming. Deliberations were made on the use of conventional as well as non-conventional feedstuffs in formulation of feed for pigs. Benefits of a balanced diet and efficient reproductive management were also discussed.

Hands-on Training under “Zero-Waste Village” approach

University organized hands-on training on vermiculture technology for farmers by adopting an innovative approach of “Zero-waste village” at village Moom under ICAR sponsored Farmer FIRST Project. A total of 60 farmers participated in the training and got benefitted. Expert(s) delivered lectures and demonstrations on method of vermicomposting livestock waste.

National Workshop and Brainstorming on “Emerging Viral Diseases”

GADVASU organized two days National Workshop and Brainstorming on “Strategy on Control and Eradication of Formidable Trans-boundary Viral Diseases of Livestock – Foot and Mouth Disease (FMD), Lumpy Skin Disease (LSD) and African Swine Fever (ASF)” from 14 to 15 November, 2022. The event was organized jointly with National Academy of Veterinary Sciences India (NAVS). Over 100 delegates from different parts of the Country participated in this event. Dr. DVR Prakasha Rao, President, NAVS was the Chief Guest on this event. He highlighted the importance of controlling transboundary diseases. A Mobile App developed by GADVASU on ‘Vaccine Preventable Animal Diseases’ was also launched on this occasion. The Policy papers on “Leptospirosis” and “Trans-boundary viral diseases of Livestock- Foot and Mouth disease (FMD), Lumpy skin disease (LSD) and African Swine Fever (ASF)” were also released.



Trainings on “Innovations in Dairy Farming and Milk Processing”



Participants gaining practical knowledge

Capacity Building Programme of Women Farmer Interest Group



Capacity building programme

Directorate of Extension Education in association with College of Dairy Science & Technology, conducted two residential training programmes on “**Innovations in Dairy Farming and Milk Processing**” under the aegis of NABARD. Expert(s) delivered lectures on entrepreneurial opportunities in dairy farming and allied sectors and apprised the participants regarding the guidelines of Food Safety and Standard Authority of India on milk processing. Hands-on training was conducted to evaluate the quality of milk and making value added milk products.

GADVASU organized a training camp on capacity building of Women Farmer Interest Group (FIG) at village Hamidi (Barnala) under the ICAR sponsored Farmer FIRST Project. A total of 15 farmers participated in the camp and gained knowledge for initiating and strengthening of entrepreneurial activities applying group based approach. The participants were encouraged to take any of the livestock based enterprises viz. processing of milk to value added products, silage making, backyard farming, vermicomposting, cow waste based activities, etc. to augment their family income.

Training programme on 'Fish Farming'



Training on fish farming

College of Fisheries organized a training on 'Fish Farming'. A total of 17 participants took part in the training and gained technical knowledge about fish farming. They were acquainted with 'Package of Practice' and 'Best Management Practices' for construction and preparation of fish pond, quality and stocking of seed, water quality, feeding and health management, harvesting, processing and value addition, and marketing of fish and fish products. The participants were also apprised of prospective aquaculture related entrepreneurial activities viz. feed manufacturing, processing/value addition, aquarium fabrication, ornamental fisheries, intensive aquaculture systems etc.

Workshop on 'Hygiene Practices at Workplace'



Participants of workshop with the University expert(s)

Centre for One Health organized a workshop on 'Hygiene Practices at Workplace' to sensitize the laboratory staff from various department of the University to adopt the better occupational health practices. Participants were given orientation on the importance of food safety, personal hygiene, proper handling and disposal of waste at workplace. An overview on chemical hazards and their prevention while working in laboratories was provided.

Training Programme on 'Value Addition of Milk'



Training on 'Value Addition of Milk'

College of Dairy Science and Technology organised a training course on 'Value addition of milk'. Dr. J.P.S. Gill, Director Research was the Chief Guest of the occasion. Dr. Gill motivated the participants to form Farmer-Producer Organisations (FPOs) and produce quality milk & milk products. The participants were provided hands-on-training on manufacturing of milk products. The microbiological, chemical and economical aspects for proper handling of milk and milk products were also emphasized.

On-Demand Training on 'Value Addition of Pork'



Training on 'Value Addition of Pork' in progress

Department of Livestock Products Technology organized a practical training on farmers' demand on 'Value addition of pork' for the pig farmers and budding entrepreneurs. The trainees were apprised about hygienic slaughtering and dressing operations of pigs, and were provided hands-on-training on development and packaging of various value-added products viz. pork pickle, sausages, nuggets etc.

Celebration of One Health Day



Scientist delivering lecture to school students

Centre for One Health celebrated the One Health Day signifying the association between the well-being of humans, animals and environment in a shared habitat. Experts delivered lectures to the students of Government Senior Secondary Smart School, Punjab Agricultural University, Ludhiana and enlightened them about importance of one health in solving complex issues related to human and animals. The measures to prevent and control zoonotic infections were discussed.

Exhibition on ‘Sardar Patel - The Architect of Unification’



Digital display in exhibition

The National Service Scheme (NSS) unit of the University organized an exhibition on “Sardar Patel - The Architect of Unification” as per the guidelines of the University Grants Commission. The life and contributions of Sardar Patel were cherished by NSS volunteers, students, staff and faculty in the form of digital exhibition in Hindi and English, reflecting the strength of unity and integrity of India, mentioned as one of the “Panch Pran” by the Hon’ble Prime Minister of India on the occasion of Independence Day, 2022.

Interaction on ‘Drug Prevention and Treatment’



Expert lecture in progress

The NSS Unit of GADVASU conducted an interaction on ‘Drug Prevention and Treatment’ at College of Animal Biotechnology. More than 150 volunteers of the unit participated in an interaction with Brig. Kuljit Singh from Heartfulness Education Trust. The speaker encouraged the students to focus on the present and not think about past and future. A blend of activities were organized including teaching and practising of meditation, Pranayam and a brief lecture was delivered on varied topics related to healthy lifestyle, heartfulness and stress management.

Advisory on Winter Care Tips on Fish Farming



Dr. Meera D. Ansal, Dean, College of Fisheries shared tips for taking extra care of fish during winter. She advised to keep the pond water depth up to 6 feet to provide enough space to the fish for hibernating in the warmer bottom zone and to regularly add tubewell water at dusk for keeping the surface water warm. Aeration of ponds, monitoring of water pH, trimming of trees was suggested for proper air and sunlight in the pond. Reduction in feed and organic manures was recommended to avoid deterioration of water quality by their accumulation at the bottom. Recommendations were made to reduce algal blooms and to timely treat various fungal, bacterial and parasitic diseases.

Activities of Krishi Vigyan Kendra(s) (KVKs)

Kisan Melas under Jal Shakti Abhiyan



Kisan Mela at KVK, Booh

KVK, Booh (Tarn Taran) in collaboration with World Wide Fund for Nature, Harike organized Kisan Mela under Jal Shakti Abhiyan under the theme 'Water Conservation and its efficient use for protection of biodiversity'. Expert(s) advised farmers to adopt Resource Conservation Technologies for better utilization of natural resources and to stop stubble burning to keep the environment clean. Ms Gitanjali Kanwar, Senior Coordinator, WWF highlighted the various endangered species such as Indus River Dolphin and their relation with human, emphasizing conservation of environment.

Vocational Training Programme on "Scientific Pig farming"



Training on Scientific Pig Farming'

KVK, Booh (Tarn Taran) organized a vocational training on "Scientific Pig farming". A total of 30 farmers attended the training and got acquainted about breeds and feeding management of pigs, scientific techniques of pig rearing, lay out plans, different types of diseases, their treatment regimens and importance of vaccination in pigs.

Scientific Advisory Committee Meetings

- Fifth Scientific Advisory Committee meeting of KVK, Booh (Tarn Taran), was held under the chairmanship of Dr. Inderjeet Singh, Vice-Chancellor, GADVASU. Dr. Singh impressed upon the potential of livestock sector in doubling farmers' income and appreciated that many small and marginal farmers from the district have started new ventures in the field of livestock, fisheries, mushroom & vermicompost cultivation with technical inputs from the KVK expert(s). Farmers field schools on silage and vermicompost at villages Bhuchar Kalan and Dugri, respectively were inaugurated by the dignitaries.



- The Fourth Scientific Advisory Committee meeting of KVK, S.A.S. Nagar (Mohali) was organized under the chairmanship of Dr. Inderjeet Singh, Vice-Chancellor to take a stock of the activities conducted by KVK in the preceding year. Discussions were held to frame the action plan of KVK for the year 2023-24. The Vice-Chancellor emphasized upon promotion of cost-effective technologies, especially the role of animal husbandry-based farming activities under integrated farming system in doubling farmers' income. An exhibition was also organized wherein value added millet products prepared by progressive farmers were exhibited. A publication on millets was also released during the meeting.



NABARD Funded Project on Artificial Intelligence Launched



Launch of project on Artificial Intelligence

Dr. Inderjeet Singh, Vice-Chancellor, GADVASU and Sh. Raghunath B, Chief General Manager, NABARD, Punjab launched a Rs. 28.99 lakhs research project on **“Deciphering the role of Artificial intelligence in Dairy farms at border area of district Tarn Taran, Punjab, India”** at KVK, Booh (Tarn Taran). A total of 250 farmers joined the event. Four beneficiary farmers were provided with Neck collar sensor systems for implementation of project at respective dairy farms.

Netherlands experts stressed on ‘One Health’ mission



PUM, Netherlands expert at KVK, Booh

Senior experts from Programma Uitzending Managers (PUM), Netherlands attended the Farmer-Scientist interface on “One Health” programme organized by KVK, Booh (Tarn Taran). A total of 40 farmers attended the programme. Dr. Niek de Wit enlightened the participants about zoonotic diseases of public health significance, food and water safety and better nutrition for the human and livestock. Dr. Pieter van den Hombergh discussed about anti-microbial resistance (AMR) and the impact of microbial resistance in animals and its associated risk factors in humans.

Farmer-Scientist Interaction under Project Formation of FPO of Dairy farmers



Participants of farmer-scientist interaction

KVK, Booh (Tarn Taran) organized a Farmer Scientist Interaction under the project “Formation of FPO of Dairy farmers at Tarn Taran” funded by NABARD at Village Vairowal (Tarn Taran). A total of 60 farmers participated in the programme and got benefitted. The importance and steps involved in formulation of FPOs were highlighted and the participants were encouraged to pool up their resources and sell their produce at a higher price by forming FPOs.

Vocational Training Programme on Mushroom Cultivation



Training on mushroom cultivation

KVK, S.A.S. Nagar organized a vocational training programme on ‘**Mushroom Cultivation**’ at village Khizrabad under the Perna project funded by Swraj Engines Limited. The participants were explained about the health benefits of mushrooms and encouraged to make it a must-have food particularly for vegetarian folks. Scope and marketing avenues available for mushroom growers were stressed upon. Trainees were also made aware regarding the special subsidy given by Department of Horticulture on mushroom farming.