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From the Desk of the Vice-Chancellor



The initiatives and accomplishments of Guru Angad Dev Veterinary and Animal Sciences University illustrate the commitment of the institution towards excellence in Veterinary and Animal Sciences for uplifting the livestock sector vis-à-vis fostering a culture of innovation. The majestic success of *Pashu Palan Mela* organised from 13-14 September 2024 is a key demonstration of this. S. Gurmeet Singh Khuddian, the Hon'ble Cabinet Minister of Agriculture, Animal Husbandry, and Food Processing, Punjab, inaugurated the *Mela* emphasizing the livestock farming on scientific lines and inculcation of entrepreneurial spirit amongst the participants. The event facilitated robust knowledge exchange amongst farmers, scientists, and industry professionals. The conferment of the 'Chief Minister Awards' to exemplary farmers across categories, including cattle and poultry farming, underscores the dedication of the University to recognizing excellence.

The University secured a patent for an innovative method of authentic milk yield recording, utilizing Artificial Intelligence (AI) and Internet of Things (IoT) technologies. This advancement enables dairy farmers to accurately track milk production, enhancing market recognition and ensuring fair pricing for quality products. The Centre for One Health has received funding for research on zoonotic diseases, addressing concerns related to increasing animal-human interactions. Similarly, Department of Microbiology has earned a project to develop advanced diagnostic tools for pig diseases. To further collaborative efforts, the University signed a tripartite Memorandum of Understanding (MoU) for the Kisan Drone Pilot training initiative to equip farmers with essential skills for sustainable practices. The University formalized MoUs with various other agencies also to foster technology development and transfer, with ongoing collaborative efforts involving industry leader Nestlé.

In pursuit of academic excellence, the University hosted Prof. Hee-Myung Park from Konkuk University, Korea, who delivered enlightening lectures on advanced veterinary techniques. The Faculty Induction Training Programme for newly appointed Assistant Professors also provided essential insights into the academic landscape. Different colleges/departments of the University have organised workshops/trainings and other programmes aimed at honing up the skills and competencies of the stakeholders in respective areas. The University faculty have consistently demonstrated excellence in their fields, receiving accolades at national level events.

I encourage the University fraternity to stay committed to excellence in teaching, research, and extension services, nurturing and keeping up a robust academic environment for significant societal impact.

Jai Hind!

(Jatinder Paul Singh Gill)
Vice-Chancellor

Pashu Palan Mela

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana organized *Pashu Palan Mela* on 13-14 September 2024. S. Gurmeet Singh Khuddian, Hon'ble Cabinet Minister, Agriculture, Animal Husbandry, Dairy Development and Food Processing, Punjab inaugurated the *Mela*. He underscored the role of livestock farming in rural livelihood and motivated the farmers to develop their own entrepreneurial ventures of livestock for better income. S. Khuddian conferred the Chief Minister awards to S. Harpreet Singh of village Sohal (Tarn Taran) in Cattle Farming category, S. Gurdarshan Singh Tiwana of village Chanarthal Khurd (Fatehgarh Sahib) in Poultry Farming category, and Sh. Kuljas Rai Arora of village Wadala Viram (Amritsar) in category of Value Addition of Livestock Produce. Dr. Jatinder Paul Singh Gill, Vice-Chancellor emphasized the value addition of livestock products to augment income level of farmers. The slogan of *Mela* '*Uttpadan ton Uttpad Banaiye, Aao Vadh Munafa Paiye*' has also been based on this objective.



The University showcased its research, educational and extension programmes at *Mela* for benefitting the stakeholders. The event provided a platform to the farmers, scientists, field functionaries, veterinary pharmaceuticals, agri-business firms and other stakeholders for showcasing their experiences and exchange knowledge and latest technologies coming up in the livestock sector. The special interactive session on livestock rearing in scientific way was organized consisting of live lectures from experts and question-answer session for addressing the queries of participants. The mouth-watering value added milk and meat products earned a great attention of visitors. The experts delivered talks on various aspects of livestock, poultry and fish farming and mechanism and procedures to overcome common problems faced by farmers. The milk testing kit, mastitis diagnosis kit, teat dip practice and acaricide drug application etc. were also demonstrated. The area specific mineral mixture and uromin lick prepared by the University were also available for sale at a nominal price. Different Self-Help Groups trained by the University, leading Veterinary Pharmaceuticals companies, dairy and livestock related equipment/ feed factories, and livestock associations established under the guidance of the University also put their stalls in exhibition. Mineral Mixture for fishes developed with joint efforts of Department of Animal Nutrition and College of Fisheries was launched by the dignitaries.

Dr. Kamal Kumar Garg, IAS, Additional Secretary, Food & Civil Supplies, Consumer affairs was the Chief Guest of the concluding session and award function. Sh. Kuldeep Singh, Director Dairy Development Department graced the occasion as the Guest of Honour. Dr. J.P.S. Gill, Vice-Chancellor presided over the function. Books compiled by the University scientists viz. '*Sooran di Sambh Sambhal*', '*Value Added Fish and Shrimp Products*', '*Kisan Uttpadak Sangathan*', '*Punjab Vich Lahewand Bakri Palan*' and a video film on '*Azolla Kashat Ate Is Di Aarthik Upyogita*', were released. The best stalls in the University as well as industry category were adjudged. The *Pashu Palan Mela* concluded with a new hope for a brighter future in livestock rearing.

Dr. Jatinder Paul Singh Gill joins as the Vice-Chancellor

Dr. Jatinder Paul Singh Gill joined as the Vice-Chancellor of Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana. Dr. Gill is a distinguished academician and eminent researcher with over 34 years of exceptional experience in veterinary sciences research, academics, and administration. His extensive career encompasses 16 years of administrative experience, which includes 9 years in leadership roles as Director of Research and Coordinator of Research, and many other additional administrative responsibilities. He has also served as Director, School of Public Health & Zoonoses for 4 years and Head of Department for 2 years. Dr. Gill also served as an adjunct professor at



the Western College of Veterinary Medicine, University of Saskatchewan, Canada. Dr. Gill's expertise and guidance have been instrumental in shaping the research initiatives. He has successfully secured over Rs 150 crores in funding for the University from 140 national and international research projects. His leadership has led to collaborations with 48 national and 12 international universities and institutes, encompassing countries such as Canada, USA, Australia, UK, Germany, Thailand, Brazil etc. Dr. Gill has managed and obtained funding for 40 national and international research projects worth Rs. 50 crores.

Dr. Gill has been on various national/state level committees including Department of Biotechnology, Indian Council of Medical Research; Indian Council of Agricultural Research; Food Safety and Standards Authority of India; the High-Powered Committee of the Chief Minister of Punjab to Develop a Road Map to Boost the Dairy Sector in the State; Expert Committee on Diversification of Agriculture in Punjab; Breeding Authority of Punjab; and Peer Review Committee for Punjab State Farmer Policy on Role of Livestock Production in Agriculture Diversification in Punjab. Dr. Gill is an expert member at several international platforms including the Food and Agriculture Organization of the United Nations and World Health Organization. Dr. Gill has many prestigious accolades, awards, and honours from bodies of national and international repute to his credit.

Sh. Rouri Deputy Speaker, Punjab Legislative Assembly visits the University

Sh. Jai Krishan Singh Rouri, Deputy Speaker, Punjab Legislative Assembly visited the University and had discussion with the Vice-Chancellor, officers and faculty of the University on various issues concerning upliftment of the livestock sector with special emphasis on dairy animals. A discussion was held regarding breed improvement of dairy animals, wherein the Vice-Chancellor said that use of good quality semen and best management practices are pivotal for breed improvement, and emphasized the vital role of Embryo Transfer Technology in this pursuit. Sh. Rouri was apprised about the academic programmes, research and extension activities of the University. He visited the Dairy Farm of the University and appreciated the herd, sheds and management practices adopted and advocated by the University.



Academic Activities

Korean Expert Shares Advanced Veterinary Medical Techniques

Department of Teaching Veterinary Clinical complex (TVCC) invited Prof. Hee-Myung Park, College of Veterinary Medicine, Konkuk University, Republic of Korea to share his expertise with students and faculty. Dr. Park delivered lecture(s) on veterinary nephrology, dialysis, interventional ultrasound, and cardiology, captivating the audience with his extensive knowledge and practical experience. He also provided hands-on training on interventional ultrasound procedures and provided insight into interventional cardiology. The Vice-Chancellor also interacted with Prof. Park and emphasized the importance of continuous learning and sharing experiences to address the evolving challenges in animal healthcare.



Fourth Faculty Induction Training Programme

Directorate of Human Resource Management organized the fourth Faculty Induction Training Programme for 18 newly appointed Assistant Professors to equip them with essential skills and insights. Expert(s) imparted knowledge on promotion and tenure processes, research article writing, international training approvals, intellectual property management etc. The training also included practical field visits to various University departments and research facilities besides an exposure visit to CIPHET, and ICAR-ATARI. Workshops on communication skills, artificial intelligence tools, and wealth management were also conducted. The programme culminated with a valedictory session presided by Dr. H.S. Banga, Registrar, who underscored the significance of ongoing professional development. Dr. Jatinder Paul Singh Gill, Vice-Chancellor motivated the participants to work hard to rise in their career and advised them to uphold the University's standards of excellence in teaching, research and extension services.



Orientation Programme for Students of College of Dairy and Food Science Technology

College of Dairy and Food Science Technology organized an orientation programme to welcome the first-year students of B.Tech. (Dairy Technology) and B.Tech. (Food Science Technology) vis-à-vis to familiarize them with the academic environment, rules, and extracurricular opportunities available at the University.

University observes Anti-Ragging Day

In observance of Anti-Ragging Day, College of Dairy and Food Science Technology organized a comprehensive Anti-Ragging Campaign to raise awareness and foster a ragging-free campus environment. The event included a series of activities aimed at educating students about the detrimental effects of ragging and the importance of mutual respect within the university fraternity.



Research and Entrepreneurship

University Adds a More Patent to its Kitty

The University has secured a patent for an innovative method to automate and ensure authentic milk yield recording in the field conditions for dairy farmers practicing hand milking in their dairy herds. This innovative solution leverages Artificial Intelligence (AI) and Internet of Things (IoT) technology for authentic milk recording, which will empower farmers with data-driven insights helping them to get better recognition and market prices for their elite animals. The technology will also help dairy breeders to expand the scope of genetic evaluation of dairy animals, enabling them to realise accurate selection and better genetic improvement. Dr. J.P.S. Gill, Vice-chancellor of the University congratulated Dr. Neeraj Kashyap, the innovator of the technology for the achievement under technical guidance of Dr. Y.P.S. Malik and Dr. Inderjeet Singh. Further, he added that this ground-breaking technology has the potential to revolutionize the dairy industry by ensuring accurate and tamper-proof milk-yield tracking of animals and thereby enhancing transparency and trust in the supply chain.



Project on Slaughterhouses Surveillance



The Centre for One Health has been granted a research project under One Health Mission of India on “**Building a surveillance model for detecting zoonotic spill over in increased animal- human interaction setting using a one health approach: A study at selected slaughter houses**” funded by Indian Council of Medical Research (ICMR), Ministry of Health and Family Welfare, Govt. of India. The project worth Rs. 1.2

crores was launched at the event organized by the ICMR at New Delhi. In a significant step toward enhancing public, animal, and environmental health, scientists from the University and Dayanand Medical College & Hospital, Ludhiana have been awarded this prestigious multi-sectoral project.

University receives Project to Develop Advanced Diagnostic Tool for Pig Diseases

Scientists from Department of Veterinary Microbiology, College of Veterinary Science, Ludhiana, Dr(s). Gurpreet Kaur, Mudit Chandra, Deepti Narang and Mousumi Bora bagged the research project entitled ‘**A Diagnostic Tool (Tetra ARMS PCR) to Differentiate Porcine Parvovirus Types and Using Computational Methods for Analyzing Their Emergence**’ amounting to ₹29 lakhs from the Department of Biotechnology (DBT), Government of India. The project aims to address a critical virus affecting the pig population in Punjab, where commercial pig farming has become a highly lucrative venture.



address a critical virus affecting the pig population in Punjab, where commercial pig farming has become a highly lucrative venture.

Nestle Scientists Visit the University to Explore Sustainable Collaboration

A delegation of Nestle scientists, including Mr. Pascal Chapot, Nestle Global Head of Agriculture; Mr. Henry Florence, Head of Sustainable Nutrition; Mr. Manuel Scharer, Agronomist from the Nestle Institute of Agricultural Sciences in Switzerland; Mr. Naveen Puttalingaiah from Nestle R&D Singapore; Mr. Sumeet Dhiman and his team from Nestle Moga visited Guru Angad Dev Veterinary and Animal Sciences University to explore potential collaborations to achieve goal of net-zero emissions by 2050. During the deliberations Dr. Jatinder Paul Singh Gill, Vice-Chancellor underscored the University's unwavering dedication to the environmental stewardship and transformative potential of a partnership with Nestle. He expressed optimism about creating a replicable model for sustainable development that reflects both institutions' values and envisioned that combining expertise and resources of the University and Nestle can set a new standard for environmentally responsible dairy farming and contribute to global climate change efforts.



Dr S.K. Uppal, Director of Research emphasized the University's commitment to sustainable practices in agriculture and livestock management. Dr. H.S. Banga, Registrar presented an overview of the University's strengths and capabilities, showcasing its advanced research facilities and expertise. Impressed by the University's dedication to innovation in sustainable agriculture and cutting-edge research facilities, the delegation expressed enthusiasm for the collaboration.

University inks pact with IQVL Pvt. Ltd. for Kisan Drone Pilot Training



Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, ICAR- Agricultural Technology Application Research Institute (ATARI -Zone 1), Ludhiana and M/s IQBri Verticals Pvt. Ltd. (IQVL), Mohali inked a tripartite Memorandum of Understanding (MOU) for collaborating on the training project 'Kisan Drone Pilot'. The Director General of Civil Aviation (DGCA) affiliated Remote Pilot Training Organizations (RPTO) will be opened in Punjab, the first one being at Krishi Vigyan Kendra (KVK), Barnala of the University to train farmers in using drones as indispensable agricultural tools for saving up to 90% water during spraying of insecticides and fungicides etc. It will also reduce the use of pesticides/fertilizers and labour involved in agriculture operations. This MOU is first of its kind in Punjab.

University Partners with Young Lady Entrepreneur to Launch Cattle Feed Start-ups in Punjab

The University and AS Cattle Feeds, Kotkapura (Faridkot) inked the Memorandum of Understanding (MoU) to collaborate on consultancy services for feed formulation. The Director of Research and Mrs. Sukhpreet Kaur of Young Lady Entrepreneur signed the MoU in presence of S. Kultar Singh Sandhwan, Hon'ble Speaker of Punjab Legislative Assembly, the Vice-Chancellor and officers of the University. S. Sandhwan, emphasized the importance of such collaborations in driving national development and ensuring food security. The Vice-Chancellor said that transferring technology to young entrepreneurs is pivotal not only for the betterment of animal husbandry, but also for igniting a wave of entrepreneurial spirit amongst youth to establish new start-ups. The MoU blending academic research with industry expertise includes knowledge sharing, consultancy, and the development of tailored feed formulations, with a focus on continuous evaluation and improvement.



French Attaché Sparks a Revolutionary Indo-French Scientific Partnership with the University

Dr. Raboisson, the Attaché for Scientific Cooperation at the French Embassy in India had transformative discussions with the Vice-Chancellor and other officers of the University. Dr. Raboisson provided an insightful overview of the Indo-French Centre for the Promotion of Advanced Research (CEFIPRA), underscoring its critical role in promoting impactful research collaborations. He highlighted the Collaborative Scientific Research Programme (CSRP), which fosters deeper academic connections between Indian and French researchers, and detailed the mobility support programmes in partner countries. Key initiatives including the Raman-Charpak Fellowship (RCF) for doctoral students and the DST-INRIA targeted programme, crucial for advancing collaborations in information and communication technology were discussed. Dr. Raboisson emphasized the potential for joint ventures in areas of metabolic diseases, 'One Health' initiatives, infectious diseases, and artificial intelligence.

The Vice-Chancellor presented an overview of the University's cutting-edge infrastructure and diverse programmes, setting the stage for future collaborations with French institutions. He advocated for strengthening academic and scientific partnerships through students and faculty exchange programmes and increased research funding. The Director of Research, highlighted the success of a recent pilot study on '**Preliminary Evaluation of Atypical Human Trypanosomiasis (a-HT) due to Trypanosoma evansi in Punjab, India,**' conducted in partnership with the French National Research Institute for Sustainable Development (IRD).

VLIIF Formalize Incubation Agreements with Leading Startups

The Veterinary and Livestock Innovation and Incubation Foundation (VLIIF), section 8 company of the University has marked a significant advancement with the formal signing of incubation agreements with seven emerging startups viz. Chimertech Pvt. Ltd; Agristar Animal Solution Pvt. Ltd; JustBark; Bioadaptis; B. G. Innovatech OPC Pvt Ltd; Grobiz and Bharti International Company. By joining the VLIIF incubator programme, these startups will have access to a comprehensive support system, including mentorship from industry experts, access to cutting-edge research facilities, and opportunities for networking and collaboration.



University Launches Dedicated Webpage for VLIIF

The University launched the official webpage for the Veterinary Livestock Innovation and Incubation Foundation (VLIIF), registered as section 8 company of the institution. The Vice-Chancellor inaugurated the webpage (www.vliif.com) and said that the VLIIF and the DST Nidhi-supported i-TBI Dairy Innovation and Incubation Centre have been established with the vision of transforming the livestock and veterinary sectors through innovation, technology transfer, and entrepreneurship. The website provides detailed information about ongoing projects, and upcoming events at the i-TBI. It will also feature success stories of incubated start-ups, guidelines for aspiring entrepreneurs, and resources for innovation and research. This digital platform aims to enhance the visibility of the University's initiatives and promote a culture of innovation within the region.



Festivities of 78th Independence Day

The University celebrated the 78th Independence Day of India. The Vice-Chancellor hoisted the National Flag and paid tributes to the freedom fighters. He briefed about the achievements of the University during last one year and lauded the efforts of University fraternity which led to securing of the second position for the University amongst all the veterinary universities of the country in the National Institutional Ranking Framework. He impressed upon developing news skills through startups and entrepreneurship and shared plans to develop artificial intelligence and robotics for farm operations.

The Vice-Chancellor praised and motivated the faculty, staff and students of the institute to put their best for strengthening the University. He encouraged all for a disciplined and productive life for the betterment of the society. The Vice-Chancellor along with officers of the University honored best non-teaching staff members for their administrative contributions, achievements and exemplary work for the University. The students presented patriotic songs.



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

Krishi Vigyan Kendra, Booh (Tarn Taran) gets Best KVK of Punjab Award



Krishi Vigyan Kendra (KVK), Booh (Tarn Taran) of the University has been honoured with the Best KVK of Punjab Award for 2024 amongst 22 KVKs in the state during the Annual Zonal Workshop of KVK's organized by ATARI Zone-1. Dr. Sanjay Kumar, Chairman, Agricultural Scientists Recruitment Board (ASRB), Dr. U.S. Gautam, Deputy Director General (Agricultural Extension), Dr. Jatinder Paul Singh Gill, Vice-Chancellor, GADVASU, and Dr. Parvender Sheoran, Director ATARI Zone-1 presented the award to Dr. Prabjeet Singh, Deputy Director (Training) of KVK, Booh.

University Library Gets Accolades at Regional Workshop

University Library has been awarded a Certificate of Appreciation for the Highest Profile Creation on J-Gate Discovery Platform amongst State Agricultural Universities/ Central Agricultural Universities /Deemed Universities for Northern Region (2023) at the annual J-Gate@CeRA Regional Training cum Awareness Workshop organized at Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar. The Library created the highest number of user profiles during the year 2023 to promote usage of CeRA, which has been duly recognized by the ICAR and M/s Informatics Publishing Limited, Bangalore.



KVK Scientist earns International Fellowship

Dr. Piverjeet Kaur Dhillon, Assistant Professor at KVK, Booh (Tarn Taran) earned an International Visiting Researcher Fellowship to join the prestigious International Centre of Excellence in Seafood Science and Innovation (ICE-SSI), Faculty of Agro-Industry, Prince of Songkla University, Hat Yai, Thailand under the supervision of an internationally renowned food Scientist Prof. Soottawat Benjakul. During her one month fellowship starting from 20th of September 2024 she will be working on nutraceuticals, functional foods and value addition of food products besides learning high end equipment related to food processing and value addition.



University Scientist Presents Lead Paper in the International Conference

Dr. Prabjeet Singh, Deputy Director (Training) of Krishi Vigyan Kendra, Booh (Tarn Taran) delivered a Lead Paper at the 2nd Aquatic Science Conference held under the theme 'Securing Sustainable Aqua-Food Systems & Resources' at the Aquatic Science and Innovative Management Division of Faculty of Natural Resources at Prince of Songkla University in Hat Yai, Thailand. In his keynote address, Dr. Singh emphasized the critical role of Best Management Practices (BMPs) in ensuring sustainable shrimp farming.



Faculty bags Awards at National Convention

Dr. Adarsh Mishra, Assistant Professor, College of Animal Biotechnology received two oral presentation awards in two different scientific sessions for his research work on diagnostic development during the 29th Annual Convention and National Conference of Indian Society for Veterinary Immunology and Biotechnology (ISVIB) held at Tamil Nadu Veterinary and Animal Sciences University, Chennai from 26th-29th September, 2024.

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

Awareness Programme on World Heart Day



Directorate of Human Resource Management and Department of Livestock Production Management jointly organized an expert lecture of Dr. Ankit Gulia, Cardiologist, Hero Heart DMC, Ludhiana on the eve of World Heart Day to create awareness about heart health and *Mission Swasth Kawach*. The faculty, staff and students attended the programme. Dr. Gulia informed about the causes, symptoms and line of treatment regarding heart diseases and asked participants to make healthy choices such as balanced diet, regular physical activity, no smoking and alcohol consumption as these changes can significantly reduce the risk of heart disease.

Workshop on Clinical Biosecurity



Centre for One Health in collaboration with College of Veterinary Science, Rampura Phul organized a workshop on enhancing the clinical biosecurity practices to strengthen the knowledge and skills of faculty from clinical and para-clinical departments. Expert(s) highlighted the interconnection between the One Health and clinical biosecurity and explained biosecurity as a key tool in controlling nosocomial infections, zoonoses, and the spread of antimicrobial resistance. The participants were given hands-on exposure, guiding them in identifying potential hazards and prioritizing biosecurity measures in various clinical settings.

Training of Veterinary Officers of Madhya Pradesh



The University trained 10 Veterinary Officers of the Animal Husbandry Department of Madhya Pradesh under the training programme entitled '**Recent Trends in Animal Disease Diagnosis Using Imaging and Laboratory Techniques**'. This training was jointly organised by Departments of Animal Disease Research Centre (ADRC) and Veterinary Surgery & Radiology along with the Directorate of Extension Education. The participants were engaged in hands-on sessions, and advanced imaging technologies relating to radiography and ultrasonography were demonstrated. They were also provided hands-on experience regarding laboratory diagnosis of major microbial and parasitic diseases of livestock along with practical training on hemato-biochemical, urinalysis and its interpretation.

Expert Panel Discussion on 'Feed Formulation for Dairy Animals'

Directorate of Extension Education organized an expert Panel Discussion on '**Feed Formulation for Dairy Animals**'. A total of 250 participants attended the programme. Expert(s) informed the participants about balanced concentrate, its types and standards, quality of raw materials used in the feed making, different types of ingredients required in concentrate formulation, importance of concentrate feeding in the transition and lactation stages, disease incidences related to feeding management, and availability of mineral mixtures, bypass fat, and uromin lick as well as the University's testing facilities. The acidosis, ketosis, lameness and mastitis in dairy animals in relation to feed were also discussed and queries of the participants were addressed.

Training on 'Fish Farming'



College of Fisheries organized a training programme on capacity building for aspiring stakeholders in fish farming. A total of 12 participants attended the training encompassing technical sessions on the complete 'Package of Practice' for fish farming, covering practical aspects of pond construction and management, seed quality, stocking, water quality maintenance, feeding, health management, harvesting, processing, value addition, and food safety. Intensive aquaculture technologies viz. Aquaponics, Biofloc and Re-circulatory Aquaculture System for minimizing water consumption and maximizing production efficiency, aquaculture in inland saline degraded lands of the state for economic utilization of zero earning lands were discussed. An exposure visit was organized at farm of progressive fish farmer in village Karodian, and modern fish market in Ludhiana, providing practical insights into fish farming and marketing practices.

Training on 'Recent Trends in Animal Nutrition'

Directorate of Extension Education of the University conducted a training on 'Recent Trends in Animal Nutrition' for the officials of Milkfed, Punjab. The expert(s) imparted knowledge about need for correct ration formulation, importance of balanced feed for milk production, nutritional requirements of dairy animals in different physiological conditions and age groups, process of silage and hay making, quality assessment of silage, use of various feed additives in animal nutrition, the intrinsic relationship between quality diet and disease incidence, role of quality feed and fodder in boosting immunity of animals which in turn improves milk production, and animal breeding strategies for producing pedigreed animals with high production potential.

Training on Intensive Aquaculture Systems



College of Fisheries organized a capacity building training on 'Intensive Aquaculture Systems' to promote Intensive Aquaculture Technologies (IAQTs) like Recirculatory Aquaculture System (RAS) and Biofloc Based Aquaculture System (BFAS) in the region. A total of 17 stakeholders participated in the training programme and got benefited.

The Capacity Building Resource Centre (CBRC) for Intensive Aquaculture Technologies recently established in the University under the *Pradhan Mantri Matsya Sampada Yojana* (PMMSY) of the Department of Fisheries, Govt. of India is the first of its kind in the northern region, mandated to undertake capacity building of stakeholders from across India, to promote climate smart water saving IAQTs.

Free Milk Adulteration Checking-cum-Awareness Drive

College of Dairy and Food Science Technology in association with Centre for One Health launched a 'Free Milk Adulteration Checking-cum-Awareness Drive' on 3rd September 2024 which will continue till end of this calendar year. The Vice-Chancellor said that this initiative is designed to create awareness about safety of milk amongst consumers as well as milk suppliers. Awareness of producers about clean milk production will be another feature of the drive, which shall comprise of free testing of milk samples brought by any consumer from across Punjab for milk quality including its composition of fat and solids, as well as checking for the presence of various adulterants, in order to ensure the quality and safety of milk for the masses. In addition to testing, the campaign will also include a series of awareness programmes to be conducted in schools and colleges in different districts of Punjab.

Dairy officials and progressive farmers from Odisha visit the University



The dairy officials from Bolangir-Kalahandi-Nuapada Regional Co-Operative Milk Producer's Union Ltd based at Bolangir, Odisha made an exposure visit the University. A total of 27 stakeholders visited the institution and got sensitized regarding the latest advancements adopted in dairy sector. The expert(s) apprised the visitors about climate smart housing of livestock, importance of feeding balanced ration for optimal milk production and shown the functioning of the automatic milking parlour at Dairy Farm. The delegation also had exposure to the large animal treatment area and extension facilities.

Research-Extension Interface

Directorate of Extension Education organized the first Research-Extension Interface for the faculty of the University, KVKs, RRTCs and Veterinary Officers of Department of Animal Husbandry on “**Advances in Dairy Animal Production**” to discuss and address the challenges to increase productivity of dairy animals. Expert(s) delivered insights on feed quality and standards for dairy animals, key requirements to design the diet of dairy animals, preparing and feeding silage to dairy animals to ensure balanced nutrition, improving fertility of dairy animals as a means to improve production through a combination of management practices and disease prevention, application of diagnostic techniques for early identification and management of diseases and Ethno-Veterinary Practices for maintaining the health and production of dairy animals. Problems and challenges faced by dairy farmers and experts to elevate animal production were also discussed along with possibilities of conducting need-based joint research and extension activities.

Trace Mineral Feeding Camp under Farmer FIRST Project



The University organized method demonstration and input distribution camp on importance of trace mineral feeding in dairy animals at village Hamidi (Barnala), under Farmer FIRST Project sponsored by ICAR. A total of 25 farmers participated in the camp and got benefitted. Expert(s) informed the participants about importance and uses of trace minerals feeding in enhancing animal productivity and improving reproduction along with maintaining normal physiology in livestock. The role of trace minerals in prevention of various diseases, predominantly mastitis was also discussed.

Monthly meeting with Progressive Livestock Farmers Association



The monthly meeting of Progressive Livestock Farmers Association (PLFA®) was held at the University in which a total of 226 farmers took part. Expert(s) delivered lectures on the occurrence of major diseases during transitional period and cautioned the participants about Dystocia, Torsion, Retention of Placenta (ROP) and Prolapse. The difference of nutrient requirements between lactating, dry and transitional animals was explained and farmers were cautioned regarding the use of molasses, buffer, sodium bicarbonate etc. during the dry period. S. Sandeep Singh Randhawa, President PLFA thanked the University authorities for providing the physical facilities and M/s Nurture Organics for sponsoring the meeting.

Meeting of Innovative Fish Farmers Association



College of Fisheries organized the monthly meeting of Innovative Fish Farmers Association (IFFA) of Punjab. Expert(s) apprised the participants about the best management practices for higher fish productivity and profitability, especially during the transitional season through monsoons. Expert(s) conducted technical session(s) on prospective alternate species to diversify traditional carp culture practices, natural food production with special reference to copefloc technology, and climate smart intensive aquaculture technologies to upscale the knowledge base of farmers to combat upcoming challenges of climate change and food safety. The IFFA office bearers shared different activities of the association and highlighted the major concerns of fish farmers, which were addressed by the University experts.

University organizes 19th Parthenium Awareness Week

The Landscaping Wing of Directorate of Students' Welfare-cum-Estate Organization celebrated the 19th Parthenium Awareness Week from 16-22 August 2024 under the aegis of ICAR-Directorate of Weed Research, Jabalpur (Madhya Pradesh). Various activities to curb the menace of Parthenium grass like uprooting and disposal of grass and spray of herbicides, were undertaken to make the University campus Parthenium free. Furthermore, the students were also apprised about the identification of carrot grass and its possible harmful impacts on human health and livestock.

Krishi Vigyan Kendra, Booh (Tarn Taran) also organized a parthenium control drive to tackle the escalating menace of parthenium and raise awareness within the community. A series of sessions across key locations including villages Booh, Booh Havelian, Dadehar Sahib, and Government Senior Secondary Smart School Kirtowal was organized. A range of control methods, i.e. cultural, mechanical, biological, and chemical were covered during the event.



Dr. Ramneek, Dean, College of Dairy and Food Science Technology Retires from the University Services

Dr. Ramneek, Dean, College of Dairy and Food Science Technology retired from the University services on 30th September on attaining the age of superannuation. He served the University for more than 32 years in different capacities. Dr. Ramneek did Bachelor of Veterinary Science & Animal Husbandry (1986), MVSc in Bacteriology & Virology (1990) from College of Veterinary Science, Punjab Agricultural University, Ludhiana and pursued Ph.D. under New Zealand overseas development association scholarship from Lincoln University, Christchurch, New Zealand in 1999. He has been instrumental in establishment of School of Animal Biotechnology and served as its Director from 2013 to 2019. He also served as the Dean, College of Animal Biotechnology. A farewell function was organized in his honour, wherein, Dr. J.P.S. Gill, Vice-Chancellor applauded the unwavering commitment of Dr. Ramneek to excellence in education and research. The officers of the University cherished the heartfelt anecdotes and expressed their gratitude for Dr. Ramneek's collaborative spirit and lasting influence for the ascendancy of the University.



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Annual Zonal Workshop of Krishi Vigyan Kendras



A three days Annual Zonal Workshop of Krishi Vigyan Kendras (KVKs) under ICAR-Agricultural Technology Application Research Institute (ATARI), Zone 1, Ludhiana was organized at Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana. Dr. Rajeshwar Singh Chandel, Vice-Chancellor, Dr. YS Parmar University of Horticulture and Forestry, Himachal Pradesh graced the inaugural ceremony as the Chief Guest. Dr. Jatinder Paul Singh Gill, Vice-Chancellor, GADVASU, Ludhiana presided over the function. Dr. J.P. Sharma, Former Vice-Chancellor, Sher-E-Kashmir University of Agricultural Sciences & Technology of Jammu graced the occasion as the Special Guest. Dr. Chandel discussed the pivotal role of demonstrations to strengthen the extension system and bridge gap between laboratories to field. He also underpinned the grass root innovations, natural farming and environmental sustainability. Dr. Gill shared his valuable insights and stressed upon the transfer of need based technologies. He further added that the competencies of KVK personnel should be enhanced and updated from time to time by organizing refresher courses, so as to guide farmers in a better way. Dr. Sharma impressed upon the vitality of diversification of farming systems, opportunities in agri-processing and achieving zero hunger through zero wastage.

Dr. Parvender Sheoran, Director ATARI Zone 1 briefed about the achievements and recognitions of various KVKs working under ATARI. Dr. Sanjay Kumar, Chairman, Agricultural Scientists Recruitment Board, New Delhi graced the concluding session as the Chief Guest. He emphasized the critical role of KVKs in ensuring that farmers are equipped with the latest technologies and sustainable practices to improve productivity and income. Dr. US Gautam, Deputy Director General (Agricultural Extension), New Delhi graced the occasion as the Guest of Honour. During the valedictory ceremony, the publications authored by scientists from various KVKs and ATARI were released by the dignitaries, followed by award function.

Awareness camp on 'Milk Adulteration Detection Kit'

Krishi Vigyan Kendra, Booh (Tarn Taran) organized an awareness camp on 'Milk Adulteration Detection Kit' at Indo-Pak Border-belt village Mehdipur. A total of 50 farmers participated in the programme. Expert(s) highlighted the University's incredible endeavour to have check upon the milk adulteration through developing two different types of milk adulteration detection kits and explained about the common adulterants found in milk. A live demonstration session was conducted to detect the adulteration in samples collected from different village households and milk collection centres. The participants were guided to make efforts to contribute towards clean milk production to get the best value of their dairy produce. Milk Adulteration Detection Kits were also distributed amongst the participants to ensure clean milk production, processing and consumption.