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January - March 2022 (I)

From the Desk of the Vice-Chancellor



Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana is the protagonist for upliftment of the livestock sector emulated through its academic, research and extension endeavours.

The University plunges on quality research with applied outcome for benefitting the stakeholders of livestock sector. The patent earned by GADVASU on 'Process Development for Egg Jam Varieties' is manifestation of the innovative inclination of the University. The University envisages to harness the potential of Public-Private-Partnership(s) for benefitting the end users viz. farmers. Recently, three Memorandum of Understanding have been signed with corporate sector to convert waste into worth as animal feed vis-à-vis to outreach the farmers in remote areas for their welfare.

Transfer of recent and optimum research outcome from laboratories to field for the welfare of farmers has been amongst the prime pursuits of the University. In addition to using traditional methods of extension education, the University is continuously leveraging the potential of technology for making authentic scientific information available to the stakeholders at their convenience. Mobile application(s) developed by the University are instrumental in disseminating technical knowledge at the farmers' door steps, abridging the scientist-farmer communication gaps.

The University endures continuous learning and strengthening of the technical skills of students by organizing trainings, educational series, seminars etc. The visit(s) of international professor(s) to GADVASU and their interactions with the students have given the later a wider eye-shot of global veterinary and animal sciences practices. For the holistic development of students as well informed, knowledgeable and multi-faceted human resources, the colleges/departments of the University have organized expert talk(s) and motivational lectures under the aegis of the prestigious Institutional Development Plan (IDP) operational at GADVASU.

KVKs of the University have been doing an admirable work of proving technical guidance to the stakeholders in the remote areas through trainings/workshops/demonstrations and other extension activities for ascendancy of economic returns of the farmers. These have been pivotal in creating awareness about the crop residue management encouraging the farmers to shun crop residue burning.

The University scientist(s) and students have brought laurels to the University in form of award(s)/honour(s)/recognition(s) from various agencies. I congratulate them and wish the scientific fraternity of the University would continue this legacy of ascendancy of the University.

**(Inderjeet Singh)
Vice-Chancellor**

GADVASU Earns Patent on Process Development for Egg Jam Varieties

GADVASU has earned the patent for innovative ‘**Process Development for Egg Jam Varieties**’. The product(s) developed by the University viz. plain and mango flavoured egg jam have essential amino acids, fat soluble vitamins, essential fatty acids and are rich in high biological value protein. These are also tastier, sweet and have excellent spreadability.



Mobile Application released

Dr. Inderjeet Singh, Vice-Chancellor of the University released the mobile application entitled ‘**GADVASU Services**’ at the monthly seminar for Dairy Farmers. The application developed by the University scientists provides a single window access to information regarding services of the University for the stakeholders of livestock sector. Dr. Singh highlighted the importance of milk marketing for a profitable dairy enterprise and inspired the participant farmer(s) to adopt integrated farming system(s) for augmenting their income. During the seminar, expert(s) delivered talk(s) on abortion in dairy animals and discussed various strategies to counter menace of communicable diseases amongst dairy animals.



MoU with Care India to outreach remote areas

College of Veterinary Science, Rampura Phul signed an MoU with Care India Solutions for Sustainable Development (CISSD), New Delhi, a Non-Governmental Organization (NGO) to strengthen and extend the outreach of college to the remotest villages of Punjab. Dr. Inderjeet Singh, Vice-Chancellor said that this association between organizations will boost the livestock sector in the region and work in symbiosis for the welfare of marginalized and small farmers. Further, he urged the farmers to utilize the ultra-modern facilities of the college available for livestock stakeholders for their benefit.



GADVASU Signed an Agreement with Reliance India Limited for Pet Food Trials

GADVASU entered into an agreement with M/s Reliance Industries Limited (RIL), Mumbai to study the utilization of RIL plant-based protein biomass in pet foods. Dr. J.P.S. Gill, Director Research, GADVASU and Dr. Santanu Dasgupta, Senior Vice-President at Reliance inked the agreement in the presence of Dr. Inderjeet Singh, Vice-Chancellor of the University. Dr. J.S. Hundal, Principal Investigator shared that the project will assess optimum inclusion level of RIL plant-based protein biomass and its potential as an alternate protein source in pet food.



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

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

New product Launch: *Shrikhand*

Experimental Dairy Plant, College of Dairy Science and Technology added a new product, *Shrikhand*, to its kitty of value added products manufactured at the plant. The University scientists standardised the technology and mechanization of the product. *Shrikhand* is known for pleasant sweet sour taste which is refreshing in warm climate and carries the goodness of fermented milk and is rich in protein and other essential nutrients.



Teaching and Research Activities

Oath-taking ceremony of Veterinary graduates

College of Veterinary Science, Ludhiana conducted an Oath-Taking Ceremony of 85 passing out veterinary graduates of batch 2016. Dr. Inderjeet Singh, Vice-Chancellor, GADVASU was the Chief Guest of the occasion. Dr. S.P.S. Ghuman, Dean of the college administered the Veterinarian's Oath to the students and advised them to ensure veterinary practice in line with the principles of veterinary ethics.

The Vice-Chancellor congratulated the outgoing professionals and wished them all success in their future endeavours. He encouraged the students to take part in extra-curricular activities, to be happy and healthy in life, besides performing their duties towards the profession conscientiously. The officers of the University, faculty and parents joined the students on this auspicious occasion.



White Coat-cum-Induction Ceremony

College of Veterinary Sciences, Rampura Phul celebrated the 'White Coat-cum-Induction Ceremony' for B.V.Sc. & A.H students (Batch 2021-22). Dr. Manish Kumar Chatli, Dean of the college highlighted the importance of white coat ceremony in veterinary profession and motivated students to inculcate values encompassing ethics, compassion and honesty that would help them to become dedicated health professionals.



White Coat-cum-Induction Ceremony

Professor-Eduardo Bastianetto visits GADVASU

Professor Eduardo Bastianetto, Department of Preventive Veterinary Medicine, Minas Gerais State University, Brazil visited GADVASU as an International Visiting Professor from February 20 to March 24, 2022. Professor Eduardo, an expert in the field of parasitic disease control and management particularly in buffalo population(s) delivered an expert talk(s) on various aspects of important parasitic disease(s).



Expert Talk(s) Organized

- Dr. Gaya Prasad, former Vice-Chancellor, Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut and former, ICAR-Assistant Director General delivered an expert talk to the students of GADVASU on 'Emerging Viral Diseases and Switching of Genes' on March 23, 2022. The event was organized by College of Animal Biotechnology under the aegis of Department of Biotechnology (DBT), Government of India sponsored scheme for Postgraduate Students.



Dean, College of Animal Biotechnology honouring Dr. Gaya Prasad

- Dr. B. R. Singh, Principal Scientist-cum-Head, Epidemiology, Indian Veterinary Research Institute, Izatnagar delivered expert lectures to students of the University.



Dr. B. R. Singh delivering lecture to students

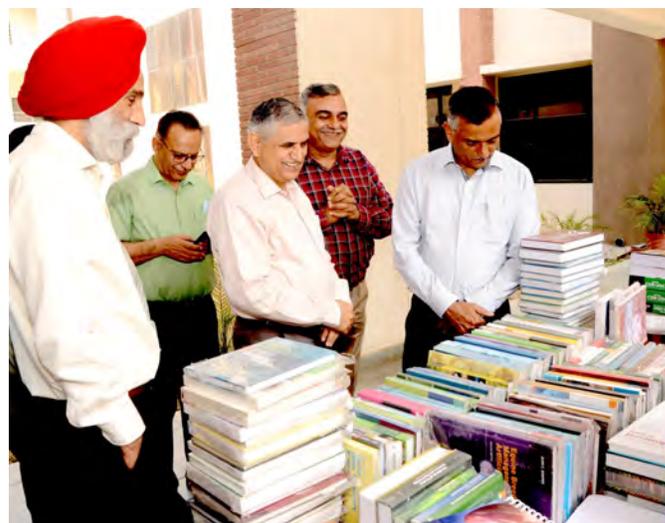
Trainings Organized under the aegis of ICAR: SC-SP grant'

College of Fisheries in collaboration with Punjab Agricultural Management and Extension Training Institute (PAMETI) organized following programmes under the aegis of ICAR: SC-SP grant':

- An online training programme was organized under the theme 'IDEA: Initiative for Development of Entrepreneurship in Aquaculture' from January 24-28, 2022 to inculcate and develop entrepreneurial aptitude amongst the students.
- An online training was conducted on 'Creative Writing' on February 5, 2022 to improve and develop the writing and auditory skills of students for better academic and career performance.
- An online training was organized for students under the theme 'Digital Journalism' on February 12, 2022 to hone up their digital content development skills.

GADVASU holds Book Exhibition

Dr. Rameshwar Singh, Vice-Chancellor, Bihar Animal Sciences University (BASU), Patna and Dr. Inderjeet Singh, Vice-Chancellor, GADVASU inaugurated the book exhibition organized at the University. Dr. Singh motivated the University faculty and students to utilize this opportunity taking full advantage of the book exhibition to procure good books for strengthening the University Library vis-à-vis their personal collection. Ten leading book publishers and distributors participated in the exhibition with a wide range of latest edition books. This was the 9th book exhibition organized by GADVASU, which is a regular feature since the inception of the University. Students, teaching and non-teaching staff of the University took keen interest in the exhibition.



Inauguration of Book Exhibition

- Dr. Jaswant Singh, Professor, Biomedical Sciences, Western College of Veterinary Medicine, University of Saskatchewan, Canada visited GADVASU as the 'International Visiting Professor' from March 15 to 25, 2022 and delivered talk(s) on diverse topics of relevance to the students.



- Dr. Yashpal, Director, National Research Centre on Equine, Hisar, visited GADVASU and delivered a guest lecture on 'Pregnancy Diagnosis in Equines' on March 28, 2022.



- Dr Sandeep Ghatak, Principal Scientist, ICAR Research Complex for NEH Region delivered a series of lectures on various topics of Veterinary Public Health and Epidemiology from March 4-12, 2022.



- Dr. R. K. Dedar, Senior Scientist, National Research Centre on Equine, Bikaner delivered talk(s) to students on management and treatment of laminitis in horses, management of skin affection in horses and common disease of horses.
- Dr. Ram Avatar Lega, Principal Scientist, National Research Centre on Equine, Bikaner, delivered lectures to students on making artificial insemination programme successful in equines, stallion semen collection methods and cryopreservation of equines/ stallion semen.
- Dr. Talluri Thirumala Rao, Senior Scientist, National Research Centre on Equine, Bikaner, visited GADVASU and delivered lectures to students on exceptions in equine reproduction, status and application of ART technologies and Reproductive disorders in equines.

Appointment of the University Officers

Dr. Sanjeev Kumar Uppal joined as the Dean, Postgraduate Studies, GADVASU for his second term. Dr. Uppal is Ph.D. in Veterinary Medicine from Punjab Agricultural University under Sandwich Programme of German Academic Exchange Service (DAAD) Fellowship. He also got an Advanced Clinical Training from Western College of Veterinary Medicine, University of Saskatchewan, Canada. He has several awards and honours to his credit.



Dr. R.S. Sethi joined as the Additional Director of Research, GADVASU, Ludhiana. Dr. Sethi worked as Professor and Head, Department of Animal Biotechnology, College of Animal Biotechnology and is also serving as Adjunct Professor in the Department of Veterinary Biomedical Sciences, Western College of Veterinary Medicine, University of Saskatchewan, Canada. He is actively involved in various international collaborations.



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

GADVASU bags Best Punjabi Language Film Award

The Punjabi film entitled '**Zoonosis - Disease between Animals and Human**' developed by scientists of GADVASU got adjudged as the Best Punjabi Language Film in the MANAGE Agri Film festival 2022 organized by the National Institute of Agricultural Extension Management (MANAGE) at Hyderabad, Telangana. Dr. Jaswinder Singh, Associate Professor received the award from Shri B.C. Patil, Minister of Agriculture, Government of Karnataka during the award ceremony of said programme.



Dr. Jaswinder Singh receiving award from the Hon'ble Minister

GADVASU Scientist on State Level Zoonoses Committee

Dr. Jasbir Singh Bedi, Director, Centre for One Health has been nominated as the member of the 'State Level Zoonoses Committee' by the Ministry of Health and Family Welfare, Government of India.



Anatomist of the Year-2021

Dr. R.S. Sethi, Professor-cum-Head, Department of Animal Biotechnology received the '**Anatomist of the Year-2021**' award during the 35th Annual Convention of Indian Association of the Veterinary Anatomists and International Symposium held at Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar during March 10-12, 2022.



Superhero Against Superbugs

Dr. Pankaj Dhaka, Assistant Professor, Centre for One Health bagged Superheroes Against Superbugs (SaS) fellowship in recognition of his efforts to raise public awareness and action to address the public health threat of antibiotic resistance.



GADVASU Scientist on Executive of IAVA

- Dr. Neelam Bansal, Professor, Department of Veterinary Anatomy got elected as Vice-President of the Indian Association of Veterinary Anatomists (IAVA)
- Dr. Varinder Uppal, Professor-cum-Head, Department of Veterinary Anatomy was elected as Joint Secretary and Treasurer of the IAVA.



Women Scientist Award

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



Alexander Fleming Prize

Ms. Hina Malik, a Ph.D. scholar, working on Antimicrobial Resistance (AMR) bagged the '**Alexander Fleming Prize**' for the best postgraduate research proposal in '**Student Research Championship for AMR 2021**' organized by ReAct Asia Pacific and ASPIC Club. Her work was also adjudged as the '**Best Innovative Idea**' at the Antimicrobial resistance DX Bootcamp, organized by IIT DELHI during March 28-29, 2022.



GADVASU Surgeons sweep awards at National Symposium

The Faculty and students of Department of Veterinary Surgery & Radiology, College of Veterinary Science, Ludhiana participated in the 44th Annual Congress of the Indian Society of Veterinary Surgery (ISVS) and National Symposium on 'Recent Trends in Surgical and Imaging Techniques for Enhancement of Productivity and health Status of Farm and Pet Animals' held at G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand and brought laurels to GADVASU, winning five Gold Medals and an appreciation award for presenting their work during different sessions of the symposium.



Dr. J. Mohindroo receiving award

Best Research Story Award

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



Best Poster Presentation Award in Fisheries

Ms. Prapti Sudan, a Post Graduate student of College of Fisheries, won the 'Best Poster Presentation Award' for her work on 'Evaluation of antimicrobial resistance in inland saline shrimp culture areas with special reference to *Vibrio parahaemolyticus*' at the 1st Indian Fisheries Outlook-2022 held at ICAR-Central Inland Fisheries Research Institute (ICAR-CIFRI), Barrackpore.



Republic Day Celebrations

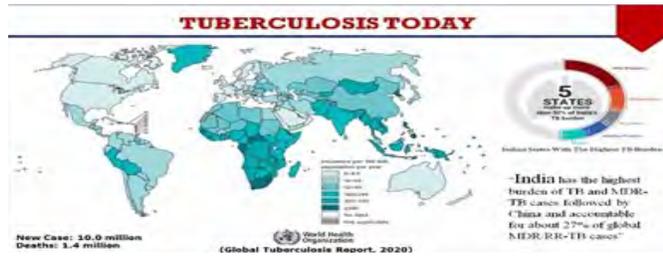
GADVASU celebrated the 73rd Republic Day of India with patriotic fervor and enthusiasm. Dr. Inderjeet Singh, Vice-Chancellor of the University and the Chief Guest of the function congratulated the University fraternity on this sacred occasion and unfurled the National Flag. He highlighted the importance and spirit of the Indian Constitution for development and prosperity of citizens. Dr. Singh underpinned the role and responsibilities of veterinary and animal sciences institutions and stakeholders to be partners in the progress of the country. He elaborated achievements of the University during last one year.

The Vice-Chancellor along with officers of the University honored faculty members for their role, achievements and contributions to earn laurels for the University. Dr. Singh encouraged the University fraternity to work hard with dedication to serve the society. Students were also honored for their achievements in different extra-curricular activities. Students and staff members filled colors, emotions and rhythm with their performance(s) in the function.



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

World Tuberculosis Day Observed



College of Veterinary Science, Rampura Phul organized a webinar on the World Tuberculosis Day. Expert speaker delivered a talk on the topic '**Zoonotic Tuberculosis in India: Current Status, Challenges and Opportunities**'. A national level quiz was also organized witnessing participation of 66 students.



Prize distribution to winner(s)

World Wild Life Day Celebrated

College of Veterinary Science, Rampura Phul organized a webinar on the occasion of the World Wild-life Day. Invited expert delivered a talk on '**Scope and role of veterinarians in wildlife with special reference to rescue operations**'. Quiz and poster competitions were also organized for the students.

International Conference on Immunology and Biotechnology



VIBCON in progress

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

Workshop on Genetically Modified (GM) Crops

Department of Animal Nutrition, College of Veterinary Science, Ludhiana in association with Animal Nutrition Society of India (ANSI) and Biotech Consortium India Limited (BCIL), New Delhi conducted a workshop under the theme '**Genetically Modified Crops in Animal Nutrition: Science and Safety Aspects**'. Expert(s) informed the participants about animal feed requirements in India, its availability, status and overview of Genetically Modified (GM), their improved nutritional value, and cleared the myths related to GM crops for food value chain. Dr Inderjeet Singh, Vice-Chancellor of the University emphasized on the need for developing new crops with high yield and free from pests to sustain the production. He further added that the lesser insecticide/pesticide use in GM crops in-fact help to improve the economy of the farmer(s) and leads to better end product in food value chain. The programme witnessed healthy discussions related to animal feed.



Hands on training on 'Scientific Pig Farming'



Participants of the training with organizers

Department of Livestock Production Management organized a training programme on '**Scientific Pig Farming**' for the scheduled caste farmers. A total of 15 farmers participated in the training programme, who were imparted scientific knowledge on breeds, housing, nutrition, health and management of pigs. An exposure visit of farmers to the University pig farm was organized.

Training course on Animal Feed Manufacturing



Training on animal feed manufacturing

Department of Animal Nutrition conducted a training course on animal feed manufacturing. A total of 20 entrepreneurs participated in the training, conducted in collaboration with Punjab Agro Industries Corporation Limited (PAIC) under Prime Minister Formalisation of Micro Food Processing Enterprise (PMFME) Scheme implemented by Ministry of Food Processing Industries (MoFPI). Expert sessions were held on purchase and storage of feed ingredients, ration formulation, manufacturing of uromin lick and mineral mixture, presence of pesticides and aflatoxins in feed ingredients, importance of feed additives, automation in feed manufacturing, the laws governing compounded feed etc.

Hands on Training on 'Molecular Modeling and Recombinant Protein Expression'



Training on 'Molecular Modeling and Recombinant'

College of Animal Biotechnology organized a hands on training on '**Molecular Modeling and Recombinant Protein Expression**' for the researchers and post graduate students to strengthen human resource in the field of Genetic engineering, Molecular diagnostics and Bioinformatics. Expert lecture(s) and practical session(s) were delivered on recombinant DNA technology, serological assays and Molecular modeling.

Training on Poultry Farming



Participants of the training with the University experts

Department of Veterinary and Animal Husbandry Extension Education organized a training programme on Poultry Farming. A total of 16 trainees were imparted scientific knowledge on various aspects of poultry farming viz. identification of breeds, housing, feeding, healthcare, general management, vaccination schedule, parasitic diseases, health management and value addition of meat and eggs etc. Special exposure visits to University Poultry Farm and Integrated Farm of Punjab Agricultural University, Ludhiana was also organized.

The trainees had a special interactive session with Dr. Rameshwar Singh, Vice-Chancellor, Bihar Animal Sciences University, Patna. The visiting dignitary provided practical tips to the trainees for making poultry farming a successful venture.

Workshop for the livestock scientists of Krishi Vigyan Kendras (KVKs)

Directorate of Extension Education organized a workshop for the livestock scientists of Krishi Vigyan Kendras (KVKs) of Punjab on 'Scientific Interventions and Technology in Sustainable Livestock Production'. Dr. Inderjeet Singh, Vice Chancellor of the University stressed that KVKs should approach the farmers to deliver them latest knowhow for uplifting their income to improve their socio-economic status and added that the low input technologies viz. poultry farming and goat farming can alleviate poverty and ensure livelihood security to the farmers. Dr. Rajbir Singh, Director ATARI Zone-I, highlighted the importance of livestock for enhancing farmers' income. A Massive Open Online Course (MOOC) on Pig Farming developed by the University scientists was launched by the Vice-Chancellor. The training took in its ambit expert lecture(s) on feeding of layers, goat production, total mixed ration, shrimp farming along with demonstration on mozzarella and yogurt preparation.



Dairy Farming Training



Training course for dairy farmers

Department of Veterinary and Animal Husbandry Extension Education organized a training course for dairy farmers. A total of 16 trainees participated in the programme. Expert(s) imparted scientific knowledge on diverse aspects of dairy farming. An exposure visit of dairy farm, dairy plant and clinics of the University was also arranged.

Training of members of Farmers Producer Organisation on value addition of milk



Hands on session in progress

Directorate of Extension Education in collaboration with College of Dairy Science and Technology organized a training on value addition of milk for members of Farmers Producer Organisation (FPO) of Punjab. The training was sponsored by the National Bank for Agriculture and Rural Development (NABARD).

Foundation Day Celebrations at College of Animal Biotechnology

College of Animal Biotechnology celebrated its 2nd foundation day in a colourful and cheerful note. Dr. Nachiket Kotwaliwale, Director, ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana was the Chief Guest on the concluding day. Dr. Simrat Sagar Singh, Former Dean, Post Graduate Studies, GADVASU and Dr. Parveen Chuneja, Director, Agricultural Biotechnology, Punjab Agricultural University, Ludhiana were the Guests of Honour. The officers of the University also graced the cultural evening. The students of the college presented colourful shades of life through cultural activities and actively participated in the competitive events such as photography, cartooning, rangoli making, clay modelling, collage making etc.



Programme(s) under Farmer FIRST Project

Under the Farmer FIRST Project funded by the ICAR, New Delhi, GADVASU organized following programme(s):

- A training camp was organized in adopted village Dhaner of Mehal Kalan block. A total of 25 farmers participated in the training and got benefitted. Expert(s) delivered lecture on value addition of milk and milk products and imparted skills to prepare value added milk products. Further, the participants were encouraged for formation of livestock-based Self-Help Groups (SHGs) at village level.



Participants of training camp

- An exposure visit of farmers at the University campus was organized. A total of 60 farmers participated in the event and gained knowledge about various entrepreneurial opportunities for them through value addition of milk and milk products vis-à-vis fish farming. The participants were encouraged to generate employment opportunities, adopting integrated fish-cum-livestock farming model(s).
- An exposure visit of 60 famers to the Regional Research and Training Centre (RRTC), Kaljhara, Bathinda was organized, sensitizing them about the different livestock farming avenues. A fruitful farmer-scientist-interaction was held.



Exposure Visit-cum-Farmer Scientist Interface Meet

Training on 'Bio-security measures at Livestock and Poultry farms'



Participants with their training certificates

Department of Livestock Production Management organized a training programme on 'Bio-security measures at Livestock and Poultry farm' for Laboratory Attendants working at livestock farm under the scheme ICAR-01 (SC-SP component). Trainees were apprised about the prophylactic measures to control diseases at farms, and were sensitized about the concept of 'One Health'.

Farmers' training programme on 'Augmenting Fertility in Dairy Animals'



Training programme on 'Augmenting Fertility in Dairy Animals'

Department of Veterinary Gynaecology and Obstetrics organized a training on 'Augmenting Fertility in Dairy Animals' for the farmers (SC category) under All India Coordinated Research Project (AICRP), 'Nutritional and Physiological Approaches for Enhancement of Reproductive Performance in Animals' (ICAR, New Delhi) operational at the University. Participants (50) were imparted technical knowledge on reproductive management for the improved outcome of the dairy animals.

Training on Shrimp Farming



College of Fisheries organized a virtual training programme on **'Best Management Practices (BMPs) for Shrimp Farming'**. A total of 91 participants attended the training and gained knowledge on diverse aspects of shrimp farming.

Training on 'Fish Farming'



College of Fisheries organized a training on **'Fish Farming'**. The participants were disseminated knowledge on various aspects of fish farming and were apprised about upcoming intensive aquaculture technologies like Aquaponics, RAS and Bio-floc technology. Visit to fish market was organized to acquaint the trainees about different prevailing marketing channels.

Milk Adulteration Camp

College of Dairy Science and Technology organized **'Milk Adulteration Testing Camp'** during the month of March 2022 creating awareness about the need and importance of milk in human life. In the month long adulteration testing camp, around 80 samples of milk were examined free of cost.



Continuing Medical Education (CME) on 'COVID-19'



College of Animal Biotechnology in association with Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow organized a CME on **'COVID-19'** in collaboration with the American Society for Microbiologists (ASM) and Indian Virological Society (IVS) on March 26, 2022. A total of 1060 participants registered for the CME focused on emerging COVID-19 variants and vaccines. Distinguished speakers from Penn State University; Curie Institute, Paris; University of California, USA; and University of Saskatchewan, Canada delivered key note lecture(s) on **'One Health'**.

Training(s) on Value Addition of Milk

College of Dairy Science and Technology organized:

- A training course for farmers on **'Value addition of milk'** from March 18-25, 2022. The training focused on manufacturing of different milk products, chemical and microbiological quality of product(s), engineering aspect(s), economics and branding of milk and milk products.



- A training programme entitled **'Demonstration/training of prototype for mozzarella cheese manufacturing'** under the scheme DST-19 'Engineering Intervention for Mechanization of Mozzarella Cheese Manufacture at Cottage' on March 16, 2022.

Personality and Soft Skills Workshop



Workshop in progress

Under the aegis of the Development Grant of Indian Council of Agricultural Research (ICAR), College of Dairy Science and Technology organized a lecture series on Personality Development and Soft skills from March 4-15, 2022. Expert(s) disseminated knowledge on diverse aspects encompassing resilience, time management, thought process, decision making and leadership, mindfulness and drivers of success in life etc.

Veterinary Awareness-cum-Clinical Camp(s)



Farmer-Scientist interaction

College of Veterinary Science, Rampura Phul organized the Veterinary Awareness-cum-Clinical Camp at village(s) Gill Kalan and Badiala (Bathinda). More than 80 farmers took part in each of these programme(s) and got benefitted. Expert (s) emphasized on rearing high yielding animals and imparted scientific knowledge on breed improvement, feeding balanced ration and providing hygienic environment to the livestock. Animals brought by farmers were examined and treated for various ailments by the clinicians.

COVID Vaccination camp

College of Veterinary Science, Rampura Phul organized a COVID-19 Vaccination camp in the college premises in collaboration with the Sub Division Hospital, Rampura Phul on 23rd March 2022.

International women's day celebration

- College of Veterinary Science, Rampura Phul organised a quiz and elocution competition on the occasion of International Women's Day on March 8, 2022. The students actively participated in both these competitions enthusiastically and the winners were awarded certificates.



- The College also organized a webinar, sensitizing students about the importance of women in the society for a sustainable future. The Guest Speakers Dr. Rupasi Tiwari, Principal Scientist, ICAR-IVRI and Dr. Barinder Kaur, Principal TPD Malwa College, Rampura Phul delivered talk(s) on 'Female entrepreneurs in India: challenges and Opportunities' and 'Gender Biasness', respectively.



Blood Donation Camp



Donors in Blood Donation Camp

National Service Scheme (NSS) unit of College of Veterinary Science, Rampura Phul in collaboration with Government Civil Hospital, Rampura Phul, organised a blood donation camp on March 22, 2022. More than 50 volunteers donated blood and were honoured for this noble cause.

Activities of Krishi Vigyan Kendra(s) (KVKs)

Awareness Programme(s) on Crop Residue Management



- Krishi Vigyan Kendra, Booh (Tarn Taran) organized awareness programme(s) on crop residue management at Government Senior Secondary School, village Kachha Pakka and National Public School, Naushehra Pannuan (Tarn Taran) on February 15 & 17, 2022, respectively, educating students on the ill effects of crop residue management so that they may further spread this message in their families and neighbourhood forming the educative chain. More than 350 students and school teachers participated in these programmes.



- KVK, Booh (Tarn Taran) conducted an awareness programme on crop residue management on February 22, 2022 at Sri Guru Arjan Dev Government College, Tarn Taran. A total of 150 students participated in the event aimed at sensitizing them about the ill effects of stubble burning to ignite young minds for the protection of the environment by stopping the menace of burning crop residue and further educating the society for shunning this practice. The alternative uses of crop residue for production of mushrooms, paper making, livestock feeding and for generation of electricity etc. were also elaborated.

Training on Silage Making

KVK, Booh organized a training on ‘**Silage Making to Ensure the Fodder Availability in Lean Periods**’ on March 02, 2022 at village Nabipur, creating awareness amongst farmers regarding the importance of silage making for running the dairy business successfully. A total of 30 farmers participated in the event.

Training Programme on ‘Commercial Pig Farming and its Export Potential’



Participants of training on commercial pig farming

Krishi Vigyan Kendra, Booh (Tarn Taran) organized a training programme on ‘**Commercial pig farming and its export potential**’ under the aegis of Ministry of Fisheries, Animal Husbandry and Dairying, Government of India. A total of 40 farmers participated in the training and gained knowledge about breeds and feeding management of pigs, different common diseases and their possible treatments, scientific techniques of pig rearing through different models, lay out plans and about the nutritive value of pig meat.

Training on ‘Management of Infertility and other reproductive disorders in Dairy animals’



Participants with KVK expert(s)

KVK, Booh organized a training on ‘**Management of infertility and other reproductive disorders in Dairy animals**’ during February 18-22, 2022 for capacity building of farmers on profitable dairying farming and livestock management. A total of 40 farmers attended the training. Expert(s) apprised them about the causes of infertility in livestock and imparted awareness regarding reproductive management and artificial insemination in dairy animals. The nutritive value of milk and value addition were also discussed.

Training on Value Addition of Milk, Meat and their Products



Trainees with KVK expert(s)

KVK, Booh (Tarn Taran) organized a training on 'Value Addition of Milk, Meat and their Products' at village Balleyanwala (Tarn Taran). A total of 40 farmers participated in the event and gained scientific knowledge about enhancing the milk production of cattle and buffaloes through improved package and practices.

Front Line Demonstration (FLD) on Battered and Breaded Fish Products



Front Line Demonstration on fish products

KVK, Booh conducted the Front Line Demonstration (FLD) on Battered and Breaded Fish Products on February 09, 2022. A total of 33 farmers and school students participated in the programme. Expert(s) highlighted the importance of fish value addition for self-employment, elaborated the value addition techniques and demonstrated the recommended processing.

Training on 'Backyard Poultry Farming'

KVK, Booh organized a vocational training programme on 'Backyard Poultry Farming' from February 28-March 04, 2022 at village Gharyala. Expert(s) informed participants about the backyard poultry farming in scientific manner and enlightened them about the egg processing and value addition techniques.

Scientific Advisory Committee Meeting Held at KVK, Mohali



The Vice-Chancellor releasing the

The third Scientific Advisory Committee meeting of KVK, S.A.S. Nagar (Mohali) was organized on March 11, 2022 under the chairmanship of Dr. Inderjeet Singh, Vice-Chancellor, GADVASU, Ludhiana. Activities conducted by KVK in the preceding year were reviewed and a blue-print of action plan of KVK for the year 2022-23 was chalked out. The Vice-Chancellor gave valuable suggestions for the action plan to strengthen the functioning of KVK.

Vocational Training on 'Scientific Bee keeping'

KVK, Booh organized the vocational training programme(s) on 'Scientific Bee Keeping' from February 17-24, 2022 and February 25-March 04, 2022 under Mini Mission-1, sponsored by the National Bee Keeping and Honey Mission (NBHM) and National Bee Board (NBB). Experts imparted knowledge regarding management of honey bee colony, handling of queen, workers and drone, different problems in bees and their preventive strategies. An exposure visit of the trainees was organized at Apiary Unit, Department of Entomology, Punjab Agricultural University, Ludhiana.

Members Mobilization and Awareness Programme under Project 'Formation of FPO of Dairy Farmers'

KVK, Booh organized a Members Mobilization and Awareness Programme at village Gharyala (Tarn Taran) under Project 'Formation of FPO of Dairy Farmers at Tarn Taran' funded by NABARD. A total of 45 dairy farmers attended the programme and were apprised about the importance and procedure for formulation of FPOs and Producer Organization Promoting Institutions (POPI).

World Pulses Day-2022



Celebrating 'World Pulses Day-2022'

KVK, Booh celebrated the World Pulses Day on February 10, 2022 at village Wara Sher Singh (Tarn Taran) under the theme '**Atmanirbhar Bharat- Harnessing Potential Pulses for import substitution**'. A total of 80 farmers attended the programme. Expert(s) sensitized the participants about the nutritional and environmental benefits of pulses, cultivation practices, use of pulses Stover in livestock feed management etc. The University literature and uromin licks were distributed to the participants.

Field Day-cum-Awareness Programme(s) on Canola Sarson

- KVK, Booh organized a field day-cum-awareness programme (Canola Day) under the cluster front-line demonstrations on oilseed on March 09, 2022 at village Dadehar Sahib (Tarn Taran). Around 100 farmers participated in the programme. Expert(s) delivered technical knowledge on different aspects of oilseed crop cultivation, health benefits, processing of canola oil and disease control in oilseed crop(s).



- KVK, S.A.S. Nagar (Mohali) conducted a field day on canola - *Gobhi Sarson* under farmer's field school at village Bhupnagar. A total of 57 farmers participated in the programme. Expert(s) delivered talk(s) on cultivation practices, plant protection measures for sarson crop, health benefits of canola oil and its value addition.

Training on 'Profitable Dairying Farming and Livestock Management'

KVK, S.A.S. Nagar (Mohali) conducted training programmes on '**Profitable Dairying Farming and Livestock Management**' from January 21-25, 2022 for capacity building of farmers. A total of 40 farmers participated in the training programmes and got benefitted.

Programmes organized by RRTC, Talwara

Regional Research and Training Centre (RRTC), Talwara of GADVASU in collaboration with Department of Veterinary and Animal Husbandry Extension Education of the University organized following programmes:

- Two training programme(s) on '**Entrepreneurship Development in Livestock Sector**' were conducted for farmers of the Scheduled Caste, motivating them to adopt livestock rearing in scientific manner. A total of 48 farmers participated in these training(s).



- Organized a training camp on '**Reproductive Management of Dairy Animals**' at village Labbar (Hoshiarpur) on February 28, 2022. A total of 31 farmers participated in the camp and were sensitized about the anestrus and repeat breeding to reduce the effects of these problems.



- Organized a training camp on '**Subsidy scheme of Government for Dairy farmers and Utility services provided by GADVASU**' at village Behbowal (Hoshiarpur) on 24th March 2022. A total of 31 farmers participated in the camp.