



Inside this issue:

Convocation of the University	2
Visit by the dignitaries	3
Inauguration of Dr. Jasmer Singh Hall	4
Nili Ravi Milking Competition	5
Placement in Government Sector	6
Research Activities	7
Award(s)/ Honour(s)/ Recognition(s)	8
Celebration of the Parkash Purb of Shri Guru Angad Dev Ji	9
Annual Athletic Meet	9
Webinar(s)/Seminar(s)/	10-14

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From the Desk of the Vice-Chancellor



Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana with the untiring efforts of the capable and experienced faculty, staff, and ultra-modern infrastructure, is producing the competent human resources to serve the livestock sector. During the 3rd Convocation of the University, held on May 06, 2023, a total of 315 students were awarded degrees, 102 were awarded merit certificates and 17 students were bestowed with gold medals. The presence of S. Kultar Singh Sandhwan, Hon'ble Speaker, Punjab Legislative Assembly as the Chief Guest and S. Laljit Singh Bhullar, Hon'ble Cabinet Minister of Animal Husbandry, Fisheries and Dairy Development, Punjab as the Guest of Honour boosted the morale of the students further. Such occasions, marked by recognition and celebration, play a significant role in motivating learners to strive for excellence in their respective fields. The acknowledgment of their hard work and achievements adds impetus to their aspirations, encouraging them to pursue their dreams with even greater dedication.

In its pursuit of academic excellence, the University inaugurated a state-of-the-art 24x7 reading hall, symbolizing its commitment to providing resources for the continuous growth of its fraternity. The hall, named after distinguished alumnus Dr. Jasmer Singh, was inaugurated by his son, Dr. Rajdeep Singh, who, as a fellow alumnus, generously donated INR 50 lakhs as a gesture of gratitude to the alma mater and a tribute to his father. The University actively promotes international exposure and learning opportunities. The students from the College of Dairy Science and Technology participated in an enriching international training programme at the University Putra Malaysia, under the aegis of the World Bank funded Institutional Development Plan. In line with the University's commitment to physical well-being and sportsmanship, the 15th Annual Athletic Meet was organized, witnessing enthusiastic participation from students across all colleges of the University.

The University is committed to provide safe, hygienic, and premium quality livestock products to consumers through the sale point. The University has signed Memorandum of Understanding (MoUs) with reputable institutions like the Punjab Remote Sensing Centre, Ludhiana, EpiPointe of North Carolina, USA, and CSIR-Institute of Microbial Technology, Chandigarh fostering scientific and academic collaboration for sustainable development in livestock and fisheries sector(s).

The University actively conducts various trainings, seminars, webinars, and workshops in livestock farming, animal husbandry, fisheries, and dairy science and technology, and biotechnology further solidifying its role as a center for comprehensive education and research in the field.

**(Inderjeet Singh)
Vice-Chancellor**

3rd Convocation of the University

Guru Angad Dev Veterinary and Animal Sciences University organized its third Convocation on May 06, 2023. S. Kultar Singh Sandhwan, Hon'ble Speaker, Punjab Legislative Assembly graced the occasion as the Chief Guest and S. Laljit Singh Bhullar, Hon'ble Cabinet Minister of Animal Husbandry, Fisheries and Dairy Development, Punjab was the Guest of Honour. S. Sandhwan congratulated the students and encouraged them to render their valuable services to the society. He invoked them to take up the challenges in their professional life so as to make significant contributions for upliftment of the livestock sector and, thereby, gearing up for the progress of the country.



Dr. Inderjeet Singh, Vice-Chancellor delivered the Convocation Report and put forth the magnificent achievements of the University. S. Laljit Singh Bhullar, highlighted the contribution of the University in producing knowledgeable, erudite and cultured citizens for the nation through chiseling their intellectual, technical and social skills. He also lauded the contribution of the livestock sector in socio-economic development of the country, giving an impetus to the overall growth of the agriculture sector.

S. Rupinder Singh Sodhi, President of the Indian Dairy Association, received Doctor of Philosophy (*Honoris Causa*) for his praiseworthy contribution in developing the cooperative sector within the Indian dairy industry. He thanked the University for conferring him with *Honoris Causa* and shared rich and interesting experiences of his life as a professional. He emphasized that the livestock sector is as important as the food sector and the former has witnessed remarkable growth in the previous years.

Dr. H.S Banga, Registrar informed that a total of 315 degrees, 102 merit certificates and 17 gold medals were conferred on students who have successfully completed various academic programmes. The Members of Board of Management of the University, officers, faculty, retirees and other dignitaries graced the occasion.



Hon'ble Speaker Punjab Legislative Assembly visits the University

S. Kultar Singh Sandhwan, Hon'ble Speaker, Punjab Legislative Assembly visited the University on 30th May 2023. He had a meeting with Dr. Inderjeet Singh, Vice-Chancellor and officers of the University and deliberated upon various issues concerning livestock sector. S. Sandhwan appreciated the yeoman services being rendered by the University and its contributions towards the ascendancy of the animal husbandry sector of Punjab. He assured that he would bring the financial demands of the University to the attention of the Finance Minister, Punjab and get them resolved. The meeting also cogently broached upon the issue of safety concerns of human and animal life who get affected due to accidents and the damages in the fields which are a matter of concern. He proposed to convene a meeting of all the stakeholders in this regard in which a concerted effort will be made to reach a consensus. The Vice-Chancellor said that the experts of the University are capable of giving complete guidance to resolve this issue. S. Sandhwan invited Dr. Inderjeet Singh and officials of the University to visit the Punjab Assembly as a delegation during the upcoming session of the Assembly.



Hon'ble Cabinet Minister visits the University

S. Gurmeet Singh Khudian, Hon'ble Cabinet Minister, Agriculture and Farmers' Welfare, Animal Husbandry, Fisheries & Dairy Development, and Food Processing, Punjab made a maiden visit to Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana.

The minister visited the demonstration unit of College of Fisheries, different livestock farms and Multi-Specialty Veterinary Hospital. He showed keen interest in intensive fishery farming for production of more fish per unit area while saving water. S. Khudian applauded the contribution of the University in developing shrimp farming in zero earning salt affected waterlogged waste lands of southwest Punjab. He praised the superior quality germplasm displayed at the dairy farm of the University.



S. Khudian applauded the ultra-modern facilities created at the institution. An exhibition of the services and products of the University was also held. The minister also had a meeting with Dr. Inderjeet Singh, Vice-Chancellor and officers of the University in which he appreciated the efforts being made by the University for the betterment of livestock sector. S. Khudian asked the University expert(s) to formulate new policies for uplifting the farming community.

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Inauguration of Dr. Jasmer Singh Hall



The 24x7 reading hall of Guru Angad Dev Veterinary and Animal Sciences University was inaugurated for providing congenial environment for reading and assimilation of ideas to the University fraternity. The Hall has been named after the University alumnus Dr. Jasmer Singh, an eminent scientist and one of the founders of College of Veterinary Science, Ludhiana who retired as Head, Department of Veterinary Parasitology in 2004. The Hall was inaugurated by Dr. Rajdeep Singh son of Dr. Jasmer Singh, also an alumnus of the University. He is a leading private practitioner at California (USA), who donated Rs. 50 lakhs as a kind gesture to repay back to the alma mater as well as to his father by naming the reading hall in his father's name. Dr. Inderjeet Singh, Vice-Chancellor felicitated Dr. Rajdeep Singh and applauded him for donating a very generous amount. The Vice-Chancellor added that it was one of the unique kinds of philanthropy where for the first time a student has contributed so generously to the University. Dr. Kulbir Singh Sandhu (Former Dean College of Fisheries and Director Students' Welfare-cum-Estate Officer) and Dr. Dev Raj Sharma (Former Dean, College of Veterinary Science) who had very close association with Dr. Jasmer Singh also praised his scientific acumen reflected in attending the disease outbreaks and for accurate diagnosis of the animals ailments. Dr. Dev Raj Sharma also donated Rs. 1 lakh for the University Library.

Inauguration of Meat Products Sale Outlet



The University started a sale point for processed meat and egg products. Dr. Inderjeet Singh, Vice-Chancellor inaugurated the sale outlet and asserted that this is one of the significant efforts of the University in providing safe, hygienic and supreme quality livestock products for the consumers. He added that the proteins from animal products, particularly meat and eggs are of very high quality and are needed for the overall growth and development of humans. The outlet provides various meat products prepared in scientific and hygienic manner and operates on every Friday from 11:00 am to 2:00 pm.

Oath-taking Ceremony of Veterinary graduates



College of Veterinary Science, Ludhiana conducted Oath-Taking Ceremony of 103 passing out veterinary graduates of batch 2017. Dr. Inderjeet Singh, Vice-Chancellor of the University was the Chief Guest of the occasion. Dr. S. P. S. Ghuman, Dean, College of Veterinary Science administered the Veterinarian's Oath to the graduates and urged them to ensure veterinary practice in line with the principles of veterinary ethics. The passing out graduates expressed their gratitude towards the untiring efforts of diligent teachers to fulfill their goal. They shared their fruitful experiences of five and a half year stay in the University. Dr. Inderjeet Singh congratulated the outgoing graduates and wished them all success in their future endeavours. He also encouraged students to take part in extra-curricular activities to keep themselves happy and healthy in life, besides their duties towards the profession.

Nili Ravi Milking Competition



University organized 'Nili Ravi Milking Competition' from 4-6 April, 2023. The buffalo farmers with per animal milk yield of more than 15 kg per day participated in the competition. The prime objective of the milking competition was identification of high milk yielding Nili Ravi buffaloes along with encouraging the buffalo breeders in Punjab. The buffalo owned by S. Gurlal Singh of village Jamalpur (Tarn Taran) with average milk of 23.94 kg was declared winner of the competition. The runner-up prize was awarded to the buffalo of S. Buta Singh of village Chuhar Chak (Moga) with average milk yield of 21.45 kg. Third Prize was awarded to the buffalo owned by S. Lahkbir Singh of village Kohara (Ludhiana) with average milk yield of 20.91 kg. Dr. Inderjeet Singh, Vice-Chancellor of the University shared that in Punjab state approximately 56 per cent of the total milk comes from buffalo. He stated that along with providing healthcare services to livestock, the University has also started working on breed development through milking competitions.

Training of University Students Abroad



Students going for International Training, with the Vice-Chancellor

The University flagged off 15 B.Tech. Dairy Technology (Batch 2019) students for an international training on “**International Collaborative Training Program on Advances in Quality and Safety Assessment of Animal Based Foods**” at University Putra Malaysia (UPM), Malaysia from 10th June, 2023 under the Institutional Development Plan (IDP) operational at the University, under the aegis of World Bank and NAHEP, ICAR. Dr. Inderjeet Singh, Vice-Chancellor advised the students to be interactive with the experts abroad and try to learn new things, and added that the international academic and research linkages developed will go a long way in uplifting the career of the students.

McGill University scientist visits the Veterinary University, Ludhiana



Dr. Saji George interacting with Students

Dr. Saji George, an Associate Professor from the Department of Food Science and Agricultural Chemistry and Canada Research Chair in Sustainable Nanotechnology for Food and Agriculture, McGill University, Canada visited the College of Dairy Science and Technology as part of the International Visiting Professorship component of the World Bank assisted IDP-NAHEP project operational at the University from June 04-06, 2023. Dr. George interacted with B.Tech. Dairy Technology students and delivered lectures on various significant topics, including roles, applications and future prospects of nanotechnology in Dairy and Animal Science.

Development of Testing Kit for Detection of Water Hardness

A team from College of Dairy Science & Technology comprising of Dr. Manvesh Kumar Sihag, Dr. Harsh Panwar, Dr. Vikas Sangwan and Dr. R. S. Sethi developed a kit for determining the total hardness of water. The kits are available for sale at College of Dairy Science and Technology.



Placement in Government Sector



Twenty three (23) pass out students of College of Dairy Science and Technology got selected for the post of Dairy Development Inspector Grade-II in Dairy Development Department, Punjab. Dr. R.S. Sethi, Dean of the college shared that the institute's commitment to academic excellence, coupled with comprehensive skill development programmes has played a significant role in shaping students' careers and preparing them for successful journeys in Government and private sector. Dr. Inderjeet Singh, Vice-Chancellor applauded the achievement of the alumni of the University in government sector placements which reflects the quality of education and the institute's commitment to nurturing well-rounded individuals.

Research Activities

MoU with Punjab Remote Sensing Centre



MoU with Punjab Remote Sensing Centre

The University inked a Memorandum of Understanding (MoU) with Punjab Remote Sensing Centre (PRSC), Ludhiana to promote scientific and academic collaboration for optimal utilization of land/water resources with assistance of geospatial technologies, for sustainable development of livestock and fisheries sectors in the region. The MoU will help in generating timeline/realistic database involving ecological mapping of land and aquatic resources for assessment of temporal and spatial changes related to seasons, climate, disease breakouts, pollution, land use, land cover, siltation, biological (floral/faunal) characteristics etc., for required management/conservation interventions. The MoU was signed by Dr. Brijendra Pateriya and Dr. JPS Gill in the presence of Dr. Inderjeet Singh, Vice-Chancellor and scientific teams from College of Fisheries of the University and PRSC, Ludhiana.

Research Project for revival of Livelihood opportunities in Sheep Husbandry

The University scientist(s) earned a research project of Rs. 232.15 lakhs from the Ministry of Dairying, Animal Husbandry and Fishery, Government of India under the aegis of National Livestock Mission. The scientist(s) will conduct research to develop a sustainable intensive sheep farming model for mutton production to diversify current paddy-wheat cropping system in Punjab. Dr. Amit Sharma, Principal Investigator of the project, apprised that under this project the Kajali sheep training-cum-demonstration unit will also be established at Veterinary College, Rampura Phul to impart hands on practical training to the farmers for promotion of scientific sheep production.



MOU with EpiPointe to promote One Health



The University signed a Memorandum of Understanding (MOU) with EpiPointe of North Carolina, USA to promote cooperation and accelerate research and training in 'One Health'. This unique private-public partnership reinforces the importance of multi-sector networks and will serve as a 'knowledge hub' to further explore zoonotic disease trends that affect animal populations and the humans in India.

Dr. Inderjeet Singh, Vice-Chancellor said that this collaboration with EpiPointe will strengthen the global standing in One Health and lead to innovative solutions to tackle emerging infectious diseases. Dr. Balbir Bagicha Singh Dhaliwal, Professor, College of Animal Biotechnology will serve as the lead investigator from the University in this collaborative research efforts.

MOU with Institute of Microbial Technology



Dr. Gill and Dr. Malik with CSIR-IMTECH Scientists

The University signed the MoU with CSIR-Institute of Microbial Technology (CSIR-IMTECH), Chandigarh. Dr. JPS Gill, Director Research and Dr. Yashpal Singh Malik, Dean, College of Animal Biotechnology inked the MOU at IMTECH Chandigarh. Dr. Inderjeet Singh, Vice-Chancellor said that the collaboration between the University and CSIR-IMTECH will mark a significant milestone in the fields of veterinary and animal sciences, as well as microbial technology. Both the institutes can pool their resources, research capabilities, and knowledge to drive meaningful advancements in common subjects.

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

'Distinguished Veterinarian of India' Award

Dr. Inderjeet Singh, Vice-Chancellor has been bestowed with the '**Distinguished Veterinarian of India**' award by the Veterinary Council of India. The award was conferred at the national level event organized by the Department of Animal Husbandry and Dairying, Government of India at Vigyan Bhawan, New Delhi. Sh. Parshottam Rupala, Hon'ble Union Minister for Animal Husbandry, Dairying and Fisheries of India conferred the honour to Dr. Singh in presence of Dr. Umesh Chandra, President, Veterinary Council of India, Dr. Sanjeev Kumar Balyan, Hon'ble Union Minister of State, Dr. BN Tripathi, Deputy Director General, Indian Council of Agricultural Research and Dr. Abhijit Mitra, Commissioner of Animal Husbandry, Government of India.



Dr. Inderjeet Singh also chaired a technical session on '**One Health, Veterinary interventions for Wildlife Conservation & management and Role of veterinarians in Indian Army**' organized on this occasion. Dr. Singh dedicated this honour to the entire veterinary fraternity and said that this honour is in recognition of his services at Guru Angad Dev Veterinary and Animal Sciences University and Department of Animal Husbandry, Punjab as he is closely associated with these two institutions.

Conference of World Society for Virology

Dr. Yashpal Singh Malik, Dean, College of Animal Biotechnology visited Riga Strandis University, Latvia from 15-17 June, 2023 to attend 2nd International conference of the World Society for Virology (WSV2023) organized under the theme 'One Health-One Virology'.



Scientist receives prestigious recognition at International level

Dr. R. S. Sethi, Dean, College of Dairy Science and Technology attended the 11th One health International conference at Dhaka, Bangladesh from 11-15 June, 2023. Dr. Sethi got funding from SouthEast Asia One Health University Network to attend International conference at Dhaka. He was honored as Eminent Veterinarian by SAARC Regional Veterinary Association on the occasion of the World Veterinary Day -2023.



Scientist appointed as Adjunct Faculty at American University

Dr. Amandeep Sharma, Associate Professor (Dairy Engineering) of College of Dairy Science and Technology of the University has been appointed as adjunct professor in Southern Illinois University (SIU), Carbondale, USA. Dr. Sharma will be jointly co-supervising post graduate students of Southern Illinois University for developing the predictive model for the prediction of shelf-life of yogurt. Recently he has undergone three months International Faculty Training under ICAR-NAHEP Institutional Development Programme at SIU, Carbondale, USA to predict the shelf life of yogurt using neural network technique of Artificial Intelligence.



Best Oral Presentation Award

Dr. Adarsh Mishra, Assistant Professor of College of Animal Biotechnology received Best Oral Presentation Award at 35th Annual Convention and National Conference of the Indian Association of Veterinary Microbiologists, Immunologists and Specialists in Infectious Diseases (IAVMI), held under the theme 'Novel Approaches in Animal Health for Realizing One Health Mission' at ChaudharySarwan Kumar Himachal Pradesh Krishi Vishvavidyalaya, Palampur, Himachal Pradesh.



Celebration of the Parkash Purb of Shri Guru Angad Dev Ji

The University commemorated the Parkash Purb of Shri Guru Angad Dev Ji, the second Sikh Guru. The Bhog of Sri Akhand Path Sahib of Shri Guru Granth Sahib ji was solemnized. The soulful kirtan of the holy Gurbani was recited followed by serving of Community langar. The University was established in 2005 in the name of Guru Angad Dev Ji, the inventor of Gurmukhi Lipi and an animal lover. He was a thorough animal lover and a large number of sick and injured animals got treatment in his personal care.



Annual Athletic Meet



Guru Angad Dev Veterinary and Animal Sciences University organized its 15th Annual Athletic meet on 18th April, 2023. Dr. H.S. Banga, Registrar of the University inaugurated the meet and said that the University always promote the spirit of games amongst students to keep them healthy and in high spirit. Senior retiree alumni members of the University also attended the meet with a great charm and fervor. Students of all colleges of the University actively participated in the athletic meet under different activities. Umeed Singh Sekhon and Jaismeen Malhi were declared as the best athletes amongst boys and girls, respectively. College of

Veterinary Science, Ludhiana bagged the Overall Trophy and College of Veterinary Science, Rampura Phul got the Runners Up Trophy. Padma Shree, Ms. Rani Rampal, Indian Field Hockey Player and coach was the Chief Guest of Prize Distribution and Closing Ceremony. She impressed that sports do improve the health and confidence of students, promote good habits and inculcate better values in a person. She distributed prizes to the winners and motivated students to do hard work to excel in respective fields.

First Prize at All India AGRI UNIFEST

The cultural contingent of the University, participated in the 21st All India Agricultural Universities' Youth Festival 2022-23 held at the University of Agricultural Sciences, Bangalore and brought laurels by winning 17 trophies under different categories of events. Team won first place in One Act Play, second place in Procession, third place in Group Song (Indian), fourth Place in Collage Making under Fine Arts Events. The University was selected from the 59 participating universities to perform in front of the dignitaries at formal opening ceremony of the festival for getting second position in procession competition.



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

Brainstorming sessions to Improve Productivity of Dairy Animals

The University organized two brainstorming sessions on animal reproduction and management aimed at increasing per animal productivity of dairy animals and to set the future roadmap for ascendancy of livestock sector. Dr. Inderjeet Singh, Vice-Chancellor chaired the sessions. Dr. A. K. Misra, Ex-Chairman, Agricultural Scientists Recruitment Board, New Delhi, Dr. Shyam Zavar, National mentor, IVF-Labs, Government of India, Dr. R. S. Yadav, Retd. Professor, Department of Livestock Production Management, Hisar

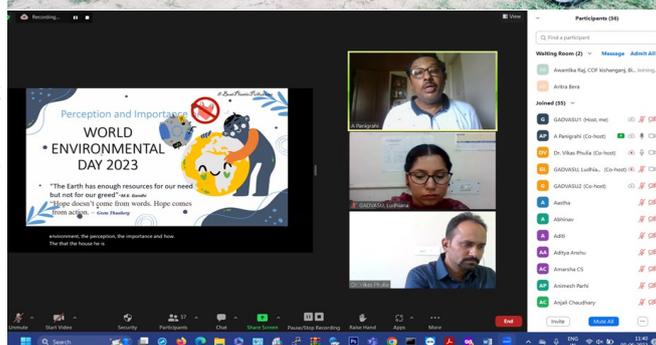


Agricultural University, Hisar, Dr. A. K. Balhara, Senior Scientist, Central Institute for Research on Buffaloes, Hisar, Dr. Praveen Malik, CEO, Agrinnovate India Limited, a Government of India enterprise and Former Animal Husbandry Commissioner of India, Dairy Entrepreneurs and officers of Guru Angad Dev Veterinary and Animal Sciences University participated in the programmes.

The poor Artificial Insemination coverage with less conception rate, problems of availability of quality germplasm, limitation of use of ultrasonography at farmer's doorstep, infertility etc. were the major issues discussed in the reproduction session. In the management session, experts pondered on high calf mortality, drying off of exotic cows, short lactation in indigenous dairy animals, culling in animals, milk let down problem in buffaloes, climate challenges in animal productivity, awareness of farmers on scientific knowledge, record keeping, etc. The house earmarked many key recommendations, including support from government to the farmers, fulfillment of sufficient number of trained Artificial Insemination technicians, development of standard package and practice of calf rearing, promotion of machine milking for clean milk production, emphasis on Indigenous cattle and buffaloes and more extensions services for education/training of farmers.

Celebration of World Environment Day

College of Fisheries conducted the National Level Awareness Campaign on 'Eco-Responsible Aquaculture' on the occasion of the World Environment Day, creating awareness about environment protection and eco-responsibility. Dr. A.K. Panigrahi, Principal Scientist, ICAR-Central Institute of Brackish Water Aquaculture (CIBA), Chennai delivered an expert lecture on '**Eco-based Innovative Aquaculture Technologies**'. He highlighted the key issues emphasizing on strategic plans, involving efficient water use, food safety standards, climate smart technologies and diversification. Poster making, poetry and slogan competitions were held and winners were felicitated for showcasing environmental concerns through art work. The NCC cadets of IPb R&V SQN NCC of the University also celebrated the World Environment Day. Around 100 cadets took part in the event and took a pledge to conserve the environment by planting trees and educating others to do so. They pledged to minimize the use of plastic and other elements harmful for the environment.



World Milk Day



The University Officers and Scientists at the World Milk Day

College of Dairy Science and Technology celebrated the World Milk Day by organizing a seminar on 'Good Food, Health, & Nutrition' to raise awareness about the significance of milk and milk products as an essential component of the healthy diet. Dr. Inderjeet Singh, Vice-Chancellor graced the occasion as the Chief Guest. He emphasized the importance of preserving buffalo due to techno-nutritional benefits of buffalo milk and its products. The water testing kit developed by the college was also unveiled by the dignitaries. A total of 150 stakeholders participated in the seminar. Expert(s) highlighted the importance of milk fortification with micronutrients and possible sustainable techniques. The feasible ways to detect plant-based ingredients to safeguard milk and dairy products against counterfeit ingredients were also brainstormed.

World Blood Donation Day



Awareness programme on the World Blood Donation Day

The 1 Pb R&V SQN NCC organized an all-girl cadets rally to mark the World Blood Donation day for creating awareness amongst the general public about benefits of blood donation. The candidates started march from the NCC unit in the University and approached Rishi Nagar area where they interacted with the general public and made them aware, and encouraged them for blood donation as it can help in saving someone's life. Their misconceptions about blood donation were also addressed.

International Yoga Day



Participants performing Yoga Asanas

Volunteers of the National Service Scheme (NSS), NCC Cadets, faculty and staff of Guru Angad Dev Veterinary and Animal Sciences University celebrated the 9th International Yoga Day. More than 200 participants took part in the event and performed a blend of yoga asanas. A brief lecture on healthy lifestyle was also delivered.

Training on Goat Farming



Participants of Training with University's Expert(s)

Department of Veterinary and Animal Husbandry Extension Education of the University organized a training on Goat Farming. A total of 47 trainees participated in the programme and gained scientific knowledge about the profitable venture. Expert(s) acquainted the participants about social and economic importance of goat farming, breeds of goats, housing plan, breeding techniques, feed management, shed designs, weather management, vaccination protocols, diseases and their prevention, economics of goat farming etc. An exposure visit to University Goat Farm, Department of Livestock Products and Technology, and College of Dairy Science and Technology was organized to familiarize trainees about day to day farm-routine, and value addition of meat and milk. A special visit to the Integrated Farming System unit of Punjab Agricultural University was also organized.

Field day for Goat Farmers

Directorate of Extension Education and College of Veterinary Science, Rampura Phul jointly organized a field day for goat farmers at village Jethuke under the aegis of All India Coordinated Research Project (AICRP) on Goat Improvement (Beetal Field Unit). Expert(s) disseminated knowledge to the participants regarding selection of bucks, importance of following scientific methods for breeding, need to adopt good management practices to boost health and production of goats, and performance indicators of the Beetal breed. Nutritional supplements, first aid kits and literature were provided to the participants.



Field Day for Goat Farmers

Training on 'Effective dairy animal production and management strategies'

The University organized a training programme on 'Effective dairy animal production and management strategies' at Multi-Specialty Veterinary Hospital and Regional Research & Training Center (MSVH & RRTC) at village Sappanwali, Abohar (Fazilka). A total of 94 farmers participated in the training and got benefitted. Experts ignited the participants about livestock production and its importance, facts on prevention and control of dairy cow parasitic infestations, prevention and control of dairy cow subfertility, environmental factors affecting livestock production, and imparted knowledge about the role of mineral supplements in dairy animal production.



Training in progress at MSVH & RRTC, Sappanwali

Seminar on Nutrition – Reproduction Interaction

The University conducted a bimonthly seminar for the All Feed Manufacturers Association (AFMA) under the theme 'Nutrition and Reproduction Interaction'. A total of 78 feed millers attended the programme. Expert(s) imparted knowledge on reproduction problems and discussed the causes, symptoms and remedies of repeat breeding, anestrus, prolapse, abortion, dystocia and retention of placenta. The seminar was sponsored by M/s SK Minerals, Khanna.

Camp to check Infertility issues of dairy animals

The University conducted a camp at village Dhaner (Barnala) to check infertility issues of dairy animals. Experts examined dairy animals and provided requisite treatment. They informed the farmers about economic losses due to infertility in terms of milk production, delay in calving, and overall productive life of animals, and advised them regarding reproductive management of animals to reduce the chances of infertility especially in summer season. The role of heat stress in inducing infertility and anestrus in dairy animals was discussed. The participants were provided literature regarding reproductive management of dairy animals.



Camp on Infertility Issues

Lecture on 'Ethics and Integrity for Professionals'

The Placement Cell of the University under the aegis of Human Resource Management Centre organized a lecture on 'Ethics and Integrity for Professionals' for students, making them aware about the importance of human values in their personal and professional life. Dr. Sarabjeet Singh, Professor and Head, Department of Agriculture Journalism, Arts and Culture, Punjab Agricultural University, Ludhiana imparted knowledge to the participants on fostering culture of integrity.

Training-cum-demonstration camp on value addition of milk



Demonstration Camp under progress

The University organized demonstration-cum-training camp on value addition of milk for farmers at village Dhaner (Barnala). A total of 21 farmers participated in the event and gained scientific knowledge about importance of packaging of value added products. The participants were trained for the scientific method of value added milk products and were encouraged to adopt entrepreneurial approach by packing the products with modern equipment and right marketing.

Orientation Workshop on Intensive Aquaculture



Orientation Workshop under progress

College of Fisheries organized an orientation workshop on intensive aquaculture technologies i.e., Recirculatory Aquaculture System (RAS) and Biofloc Based Aquaculture (BFA) for capacity building of officials of Department of Fisheries (DOF), Punjab and farmers. A total of 48 participants attended the workshop. Technical sessions with practical demonstration on RAS and BFA were conducted for replication of these new technologies as per climatic conditions and availability of suitable fish species, through an integrated approach.

Meet on Importance of Millets in Poultry Nutrition



Farmers Participating in the Meet

The University conducted a monthly seminar under the theme 'Role of millets in poultry nutrition' in association with the Independent Poultry Association (IPA). A total of 28 farmers took part in the programme. Expert(s) acquainted the participants about management of birds during monsoon, and advised them to decrease the density of birds, provide regular water and offer feed during cool hours of the day. The participants were cautioned about increasing incidences of certain diseases during monsoon, and were suggested to use some electrolytes in the feed to prevent stress and keep the feeders dry as far as possible.

Mobilization and Awareness programmes for Promotion of FPO



University Officials with Farmers

Directorate of Extension Education organized two mobilization and awareness programmes for promotion of Farmer Producer Organizations (FPOs) at village(s) Mushkabad and Khirnian (Ludhiana). A total of 40 farmers participated in these programmes conducted under the research project entitled 'Promotion of Farmers Producer Organization (FPO) on dairy Farming in district Ludhiana' funded by the National bank for Agriculture and Rural development (NABARD).

Training on 'Fish Farming'



Training on Fish Farming

College of Fisheries organized a training on Fish Farming for capacity building of farmers. Expert(s) apprised the participants about the complete 'Package of Practices' with on farm practical sessions, including construction and preparation of fish pond, seed quality and stocking management, water quality, feeding and health management, harvesting, processing and value addition, biosecurity and food safety, and marketing strategies. Insights were also provided about potential fish farming entrepreneurial activities like feed manufacturing, processing/value addition, ornamental fisheries and aquarium fabrication, intensive aquaculture technologies (Aquaponics, Recirculatory Aquaculture System, Biofloc Aquaculture System) etc. The trainees visited the Integrated Farming Unit of Punjab Agricultural University, fish farm of progressive farmer Mr. Jasveer Singh at village Karodian and modern fish market in district Ludhiana for real time exposure to culture and marketing practices.

Dairy Farmers' meet on Summer Management



Training on Fish Farming

The University conducted its monthly seminar for Progressive Livestock Farmers Association under the theme 'Summer Management of Dairy Animals'. A total of 57 farmers attended the meeting, focused on management and nutritional needs during the hot and dry period.

Method demonstration-cum-input distribution camp on vermicomposting



Demonstration Camp on Vermicomposting

The University organized 'Method demonstration and input distribution camp' on vermiculture technology for farmers at village Moom. A total of 75 farmers participated in the programme. Expert (s) delivered lecture(s) followed by practical demonstration on vermicomposting livestock waste using rhino beds. The importance of using vermicompost in the farming systems and its prominence to get fruitful results by reducing the irrational use of chemical fertilizers and pesticides in the crops, vegetables and fruits were explained. The vermicomposting kits along with literature regarding the demonstrated technology were distributed to the participants.

Vocational Training on Value Addition of Milk



Participants of Vocational Training on Value Addition of Milk

Krishi Vigyan Kendra, Booh (Tarn Taran) of the University organized three days training on 'Value addition techniques in dairy' at village Khwaspur (Tarn Taran). A total of 30 farmers participated in the event. Expert(s) disseminated knowledge about preparation of value added products. The recommended latest technologies for flavoured milk and ghee processing were demonstrated to the trainees. Literature on value addition of milk, area specific mineral mixture and uromin licks were provided to the participants.