



## e-Newsletter

# Guru Angad Dev Veterinary & Animal Sciences

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## From the Desk of the Vice-Chancellor



Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana occupies the topmost place amongst veterinary and animal sciences universities of India in terms of the trinity of academic, research and extension activities. At the same time, we also give immense importance to sports, social and cultural activities chiseling the professional students for real life issues and challenges and strengthening their personal skills. These activities not only bring out the hidden talent of students and give them recognition amongst University fraternity, but also make them more responsible towards society by developing their understanding of social issues through role playing. Further, social and cultural activities hope up the organizational, presentation, leadership and interpersonal communication leading to the overall development of students.

The University lays immense importance on communication of research an technology innovations to the farming community for their economic sustainability. In this trajectory, the University is continuously organizing training programmes and/or workshops for farmers for their capacity building for animal husbandry in scientific manner. In view of the ill effects of stubble burning, the University and its Krishi Vigyan Kendras have organized various awareness programmes encouraging farmers to protect the environment by not burning paddy straw and using crop residue within the fields to increase soil fertility. The University is advocates the utilization for livestock as fodder after treating it with urea. The National Service Scheme (NSS) volunteers of the University have also contributed towards this social and environmental issue by organising campaigns in villages and spreading the message of environmental protection. The installation of a solar rooftop power plant with capacity of 1105 KWp (1.1 MW) is another major 'Green Initiative' of the University to promote sustainable and eco-friendly system in the University campus.

During the year 2019, the University bagged an Institutional Development Project. I owe this success of the academic, research and extension programmes of the University to the tireless efforts of faculty, students and non-teaching staff of the University. I trust, the fraternity of the University will carry forward this legacy in 2020 also. I wish a very happy and prosperous NEW YEAR 2020 to all.

(A. S. Nanda)  
(Vice-Chancellor)

## Youth Festival

Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana organized 10<sup>th</sup> Youth Festival from 05-15<sup>th</sup> November 2019 to polish and improve the talent and skills of the students. The Students of constituent colleges of the University including College of Veterinary Science, College of Dairy Science and Technology, College of Fisheries, College of Animal Biotechnology, Newly established Veterinary College, Rampura Phul (Bathinda), Veterinary Polytechnic, Kaljharani vis-à-vis affiliated colleges including Khalsa College of Veterinary and Animal Sciences, Amritsar and Baba Hira Dass Ji College of Pharmacy, Badal participated in the festival. Dr. S. K. Uppal, Dean, Post Graduate was the Chief Guest of the inaugural session and Dr. P S Brar, Dean, College of Veterinary Science was the Guest of Honour. Dr. Satyavan Rampal, Director Students' Welfare said that youth festivals are an essential part of studentship and appropriate medium of internal expression of students and hence it is right of students to enjoy this flavour. He said that these festivals develop cordial relations in students and help to build confidence amongst them. Festival events were divided into two phases. The festival began with Tug of Knowledge and brush strokes as events of photography, quiz, cartooning and on the spot painting were held on the inaugural day. The collage making, poster making and installation, rangoli making, clay modeling, creative writing, debate elocution, extempore, poetry and hass-ras competitions were also held in the first phase of the Festival.



Student participating in painting competition

The second phase comprised of theatrical events like mime, skit, mimicry, one act play, mono acting, Gurbani Shabad Gayan, Folk Songs, Light Vocal, Western Music, Group Songs, Classical Dance, Creative Dance and Group Folk Dances (Male/Female).

More than 200 students participated in 30 events in the festival. Officers of the University and dignitaries graced the festival as Chief Guests for various sessions.

One Act Plays showcased the different colors of life and also highlighted miseries of society. Plays 'Zindagi' written by Jagdev Dhillon themed on the clash of real parents of eunuch and outside community represented the miseries of life of an eunuch. Sagar Kumar's Play 'Kathputli' conveyed the grief of abandoned girl child. Similarly, plays such as 'Neer Nirupan', 'Mahabharat', 'Intezaar', Behavioural Science gave messages to society regarding various issues.



Students elaborating social issues through play



Folk dance performances



Bhangra, the vibrance of Punjab

Sh. Rakesh Agrawal (IPS) Commissioner of Police, Ludhiana was the Chief Guest of the concluding day and Dr. A S Nanda, Vice-Chancellor was the Guest of the Honour. Dr. Nanda appreciated the spirit and zeal of students for becoming the part of youth festival and shared that the students' of the University have been doing well in different extra-curricular activities at all India Agricultural and Veterinary Inter University fests and they have won a number of prizes and trophies in these events. The Vice-Chancellor congratulated the organizing team of Youth Festival and distributed prizes to the winner students. The festival concluded with a healthy, cheerful and colourful impression to all the participants and spectators.



Prize distribution to the winner(s)

### Veterinary Alumni Meet

To commemorate the 50 years of glorious journey, Alumni Association of College of Veterinary Science, GADVASU organized an alumni meet, which was attended by more than 350 veterinarians. Dr. K K Baxi, Chief Guest and former, Dean of the college while sharing his experiences highlighted the recognition of the College at International level and congratulated faculty and alumni for elevation of the college to top Veterinary University of the country. Dr. H P S Kochhar, Guest of Honour and presently Assistant Deputy Minister, Immigration, Refugee, Citizen, Canada acknowledged the role of the college in providing him good foundation and underlined the role of quality education in life. Dr. G S Chahal, former Deputy Director, Animal Husbandry shared the struggle they did in establishment of the college and for upliftment of veterinary profession. Dr. Parkash Singh Brar, Dean, College of Veterinary Science and President, Alumni Association in welcome address highlighted the need to strengthen the Alumni association and requested senior alumni to guide new students to excel in diverse areas. Dr. H K Verma, Director Extension Education-cum-Secretary, Alumni Association gave detailed insight about alumni, its functioning along with role of veterinarians in the society, functioning of GADVASU and 'Multitier Extension Approach' of the University for reaching out to the farmers. Dr. Verma specially thanked Dr. Inderjeet Singh, Director, Animal Husbandry Department, Punjab for his support for the Alumni meet-cum-technical seminar. Fifteen alumni of the college were honoured for their distinguished services in different fields to the society. New years' calendar and special issue of Vet Alumnus, an official magazine of association were also released by the dignitaries.



Honouring the distinguished Veterinary Alumni

## Awards/Recognitions/Fellowships

### Veterinary Scientists bring laurels at International Conference

Dr. APS Sethi, Professor-cum-Head, Department of Animal Nutrition was conferred with the Fellow-ANSI award by Animal Nutrition Society of India (ANSI) at the International Conference on Animal Nutrition (INCAN 2019) held at Kolkata for his outstanding contribution in Monogastrics Nutrition. Dr. Sethi also bagged the best poster award for his research work entitled 'Nutritional Practices Followed by Dog Owners in Barnala and Mansa District of Punjab'. Dr. J S Hundal, was awarded with Associate Fellow-ANSI award for his exceptional research work on innovations and strategies to combat global warming i.e. transform paddy straw into feed pellets for livestock. Dr. Amit Sharma also bagged best poster award for his research work. Dr. Vikas Phulia got best oral presentation award for his research work on 'Comparative Evaluation of Detoxification Methods on Toxic, Anti-Nutritional and Proximate Composition of Defatted Jatropha Kernel Meal'. Students, Dr. Prabhjot Kaur and Dr. Ankita got Best M.V.Sc. Thesis award and best oral presentation award, respectively.



Dr. J S Hundal receiving Associate Fellow-ANSI award

### Scientists honoured at National Seminar

Indian Society of Extension Education of ICAR-IARI, New Delhi, bestowed fellowship of the society to Dr. H K Verma, Director of Extension Education, GADVASU and also honored him for the exemplary work in field of Livestock Extension at the National Seminar on 'Socio-Digital Approaches for Transforming Indian Agriculture' organized by ISEE at CCS Haryana Agricultural University, Hisar. Dr. Y.S. Jadoun, Assistant Professor was awarded the Young Scientist Award, for the excellent extension, research and services to the farmers.

### KVK Scientist Awarded in International Conference

Dr. Munish Sharma from Krishi Vigyan Kendra, S.A.S. Nagar (Mohali) of GADVASU participated in the International Conference on 'Global research initiatives for agriculture and allied sciences' at ICAR-National Academy of Agriculture Research Management, Hyderabad and was bestowed with the 'Excellence in Extension Award' for his contribution to the extension activities. In addition, the research paper of Dr. Sharma entitled 'Influence of crop geometry on onion bulb yield in district Mohali of Punjab' was adjudged the 3<sup>rd</sup> 'Best poster' in agriculture section.



Dr. Sharma being bestowed with Excellence in Extension Award

### Dr. Simrat Sagar Singh to lead Veterinary Surgery Society in India

Dr. Simrat Sagar Singh, former Dean, College of Veterinary Science and Dean, Postgraduate Studies, GADVASU has been elected, unanimously, as the President of the prestigious Indian Society for Veterinary Surgery (ISVS) at its 43<sup>rd</sup> annual congress and National Symposium held at College of Veterinary Sciences, Hisar. The research paper entitled 'Diagnosis and surgical removal of granulosa theca cell tumor in mares' by Drs. A. Anand, S.S. Singh, D. Pathak, J. Khosa, R. Udehiya, S.K. Mahajan and V. Sangwan won Gold medal for the Best research paper. Another research paper based on the Ph.D. research work, 'Clinical studies on shear wave elastography of liver in apparently healthy dogs, by Drs. D. Sharma, J. Mohindroo, N. Kashyap, S.K. Mahajan and T. Singh was adjudged as second best paper in Radiology and Imaging session. A poster entitled, 'Surgical management of patellar luxation in

a 3.5 year H.F cross cattle' by Drs. H.S. Sodhi, V.K. Shukla and A. Anand won appreciation award.



Dr. S S Singh, newly elected president of the Indian Society for Veterinary Surgery

### Student bags prestigious overseas Visiting Doctoral Fellowship

Ms. Priya Rawat, Ph.D scholar of Department of Aquaculture, College of Fisheries, GADVASU bagged an overseas visiting doctoral fellowship (OVDF) of 12 months awarded by the Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India. Under this competitive fellowship, Ms. Rawat will be joining Department of Animal Nutrition & Management, Faculty of Bioscience Engineering, Swedish University of Agricultural Sciences (Slu), Uppsala, Sweden for conducting part of her Ph.D research. DST will also sponsor the visits of major advisor of Ms. Rawat, Dr. Vaneet Inder Kaur, Scientist, GADVASU and overseas guide Dr. Kartik Baruah to Slu (Sweden) and GADVASU (India), respectively for strengthening international ties for capacity building and training of students and faculty for enhanced professional competency. Applauding the outstanding achievement of the student, Dean of College of Fisheries, Dr. K.S. Sandhu shared that it is an excellent international capacity building opportunity to upscale the professional skills of student for a brilliant career. Dr. Sanjeev Kumar Uppal, Dean, Post Graduate Studies congratulated the students and said that meritorious PG/Ph.D. students of the university help in developing an effective alumni base across the globe for holistic development of livestock sector.



Ms. Priya Rawat



Dr. Vaneetinder Kaur

### World Bank Project kick starts at University

GADVASU bagged the prestigious World Bank project to the tune of Rs. 30 Crore under National Agricultural Higher Education Programme of Indian Council of Agricultural Research, New Delhi. The project entitled 'Improving Learning Outcome, Skill and Entrepreneurship at GADVASU' is first of its kind aimed to improve the competency and skills of undergraduate students apart from modernization of classrooms. The launch workshop was organized to initiate the various activities of the project. Dr. R C Agrawal, ICAR-Deputy Director General (Education) and National Director, National Agricultural Higher Education Project was the Chief Guest for the workshop and Dr. A S Nanda, Vice-Chancellor, GADVASU presided over the function. Dr. Agrawal highlighted the importance of the project and urged all the students to become job provider rather than job seeker. He informed that in this project the students will get a chance to improve their professional acumen by working in institutions of International repute. Dr. P.S. Brar, Dean College of Veterinary Science and Principal Investigator of the project shared his views that this project will bring a substantial improvement in teaching methodologies at undergraduate level. He asserted that it will improve the practical competency of students and inculcate the ethos and spirit of entrepreneurship amongst them. Dr. A S Nanda emphasized that relying on safe and secure jobs is not enough and one should step forward for creating new job avenues for others. Dr. R C Agrawal witnessed various facilities of the university and appreciated scientists for their hard work for upliftment of education standards and livelihood of the farmers.



Dr. A S Nanda honouring Dr. R C Agrawal

## Trainings/ Workshops

### Capacity Building Programme on Advances in Molecular Epidemiology

GADVASU organized training under the theme 'Advances in Molecular Epidemiology in Veterinary Research' at School of Public Health and Zoonoses (SPHZ), sponsored under the 'Capacity Building Programme' of the Indian Council of Agricultural Research (ICAR). Dr. Ashok Kumar, Assistant Director General (ADG) (Animal Health), ICAR was the Guest of Honour of the occasion. Participants from 14 different states of India learnt the recent advances in the field of molecular epidemiology in training programme. Interacting with the participants, Dr. Ashok Kumar congratulated the organizers for such initiative of capacity building programme and motivated the participants to address the emerging issues that are being faced by livestock and livestock owners, at the same time promoting health of the farming community. He called upon the participants to work in collaboration to find and resolve the major animal health related issues affecting our country. Dr. J P S Gill, Director of Research and Dr. S K Uppal, Dean, Postgraduate Studies also addressed the participants. Dr. R S Aulakh, Director SPHZ expressed his gratitude to Dr. Ashok Kumar for his visit to encourage the participants.



Dr. Ashok Kumar along with Officers of the University releasing CD

### Dairy farmers trained in nutritional technologies

Department of Animal Nutrition, GADVASU organized two days training on 'Nutritional technologies for efficient milk production under scheme Rashtriya Krishi Vikas Yojna-11 (Special Component) SC/ST farmers of Punjab at Boparai Kalan, Ludhiana. Twenty two landless farmers participated in the training and got acquainted with latest knowledge on balanced feeding of different

categories of animals all around the year using locally available feed ingredients. Experts from the department delivered lectures on various nutrition technologies along with practical demonstrations.



Certificate distribution to the participant farmers

### Faculty training programme under CAFT

Department of Veterinary Gynaecology and Obstetrics, GADVASU held three weeks advanced faculty training programme on 'Current Knowledge and Future Challenges in Domestic Animal Theriogenology' under the aegis of ICAR. Twenty three scientists participated in the programme aimed at augmenting the fertility and productivity of livestock and pets to ultimately maximize the financial profits of farmers. A total of 53 lectures and demonstrations were held covering almost every aspect of animal reproduction. The main attractions of the program were Ultrasonography and Colour doppler of reproductive organs, Fetal monitoring with cardio-tocography. The expert lecture on Breeding management in equines by Dr Mustaq Ahmad, ETT Unit, Dubai Camel Breeding Centre, Dubai over the video link was highly appreciated. The participants were imparted scientific knowledge and hands on training in the field of animal reproduction. A farm visit of the participants to Kartar Dairy Milk Farm, Dalewal, Hoshiarpur was also organized to weigh dairy farming and value added entrepreneurship.



Hands on training

### International workshop on 'Ethics in Research and Lab Safety'

A three days International Workshop on 'Ethics in Research and Lab Safety', organized by GADVASU in collaboration with University of Saskatchewan, Canada was held at School of Public Health and Zoonoses of the University. Overseas scientists from United States and Canada familiarized students about the significance of ethics in scientific research, how to decide giving credits to the scientists involved in a research project(s) as well as the guidelines for animal research. More than 60 students from various departments of the University attended the workshop and learnt about biosafety, handling chemicals in lab, personal protective equipment, ethics in research, citation manager, plagiarism, etc. Dr. S K Uppal, Dean, Postgraduate addressed the participants of the workshop and distributed certificates to them.



Dr. S K Uppal addressing students

### Academia-Students-Farmers Interface on Goat farming

College of Veterinary Science organized Academia-Students-Farmer Interface on 'Goat Husbandry practices for doubling the farmers' income' under the aegis of Institutional Development Plan-National Agriculture Higher Education Programme (IDP-NAHEP) programme. A total of 50 farmers and 15 B.V.Sc.&A.H. students participated in this programme. Experts from different area related with health, management, value addition and marketing including Dr. Paula Menzies, Professor Emeritus, University of Guelph, Canada operated as panelists. Dr. H K Verma, Director Extension Education apprised the farmers about various extension initiatives and facilities provided by the University and informed that the University has hand holding approach for the success of the farmers and entrepreneurs. The practical demon-

stration on value addition of goat meat and milk in to various products for enhancing farmer income was also organized.



Practical demonstration to participants

### Seminar for Milkfed Officers

Directorate of Extension Education, GADVASU organized a one day seminar on 'Animal Husbandry and Animal Health Practices' for Veterinary officers and Managerial Personnel of Punjab Milk federation. More than 50 officers attended the seminar from all Verka Milk Unions of the state. Sh. K S Sangha, IAS, Managing Director, Milkfed was the Chief Guest of the occasion. Sh. Sangha appreciated the initiatives of GADVASU and applauded the extension services of the University for transferring new technologies and techniques to the farming community. Dr. Sushil Prabhakar, Registrar GADVASU presided over the function along with Dr. H K Verma, Director of Extension Education. The participants were imparted latest knowledge about feeding strategies, breeding management, information network for animal productivity and management (INAPH), mastitis management, reproductive management, common diseases, milk borne diseases, etc.



Sh. K S Sangha addressing participants

### Training on 'Optimal reproductive management of dairy animals'

Department of Veterinary Gynaecology and Obstetrics organized a one day training course on 'Optimal reproductive management of dairy animals' for SC/ST dairy farmers for upliftment of small scale dairy sector in the state under the scheme RKVY-12-DEE at village Jhundun. A total 50 SC/ST candidates attended the training got knowledge about rearing good quality animals with true breed characteristics, criteria for selection of dairy animals at the time of purchase, care of pregnant animals to reduce the calving disorders and to improve subsequent milk production. University literature kits, mineral mixture and certificates were also distributed to the trainees.



Certificate and mineral mixture distribution to farmers

### Training in fish farming

College of Fisheries, conducted a five days training programme to take up fish farming as a self-employing enterprise for livelihood and/or entrepreneurship. A total of 30 farmers participated in the programme and learnt about selection of site, construction and preparation of ponds, best management practices (BMPs) for water quality management, feeding practices, health management and post-harvest handling for storage/processing, marketing and economics in respect to potential species like carps, catfish, shrimp and ornamental fish, etc. All the participants were provided opportunity for hands on training during the practical sessions and an exposure visit to local fish market was also arranged to apprise them of the prevailing marketing system in the State. Special session on role of mass media in marketing was organised to sensitise the trainees about modern day marketing strategies. Dr. Kulbir Singh Sandhu, Dean of College of Fisheries, said that university is playing a vital role in capacity building of farming community, youth, entrepreneurs and women folk to take up fish farming more scientifically for long term sustainability and enhanced profitability.



Practical demonstration to farmers

### Training on ornamental Fish farming and Aquarium Fabrication

College of Fisheries conducted three-days training programme on 'Ornamental Fish Farming and Aquarium Fabrication' to equip participants with self-employment oriented technical skills for ornamental fisheries. Thirteen fish farmers and entrepreneurs participated in the training programme. The participants were given technical know-how on different aspects of ornamental fish culture like identification of important ornamental fish varieties, culture and breeding techniques, best management practices in respect to feeding, water quality management and health management, along with colour enhancement, fish packaging and transportation techniques for reaping maximum economic returns. Participants were also trained in aquarium fabrication, aquarium setup, aquarium maintenance and propagation of aquatic ornamental plants with an aim of equipping all the participants with multiple entrepreneurial options in ornamental fisheries. Dr. Kulbir Singh Sandhu, Dean, College of Fisheries motivated the participants to adopt small scale enterprises like ornamental fisheries for additional income and financial security. He also advised them to keep in regular touch with the university experts for regular technical updates and honing up their skills to earn more for every penny they spend in ornamental fish business.



Participants with fisheries experts

### Training Course on 'Advances in Epidemiology'

School of Public Health and Zoonoses organized 10 days faculty training programme on Advances in Molecular epidemiology. Twenty five faculty members from different Universities and National Institutes attended the training to enhance their knowledge and practical skills. The training programme was funded by the ICAR, New Delhi under Capacity Building Programme. In the inaugural function, Dr. S.K. Uppal, Dean, Post Graduate Studies and Nodal officer, ICAR apprised the participants about the importance of epidemiology in animal and public health. Dr. J P S Gill, Director Research briefed the participants about the significance of rapid and sensitive molecular epidemiological investigative tools in population health. Eminent speakers of national and international repute, from University of Sydney (Australia), Royal Veterinary College (United Kingdom), University of Calgary (Canada), International Livestock Research Institute (Kenya), Swedish University of Agricultural Sciences (Sweden), PGIMER (Chandigarh) and experts from the university interacted with the participants. Hands on training on various molecular epidemiological techniques was also imparted to the participants.



Trainees with officers and faculty of the University

### Training(s) in Pig Farming and Nutrition Technologies

Department of Animal Nutrition organized two days training on 'Efficient technologies in pig production' under the scheme 'Rashtriya Krishi Vikas Yojna-11' (Special Component) SC/ST farmers of Punjab at Malhan Pork Farm, Bohan. Twenty five farmers participated in the training. Experts delivered lectures on various aspects of pig farming along with practical demonstrations. Participants were also informed about the facilities available at the University to test quality of feed or feed ingredients, fodder, silage at nominal charges for the benefit of the farmers.

Department of Veterinary and Animal Husbandry Extension Education organized consecutively three training programmes on Pig Farming during October to November 2019. A total of 74 trainees from Punjab and nearby states participated in these training programmes. The trainees given theoretical knowledge on various topics like breeds, feeding, shed design, vaccination protocols, disease prevention, value addition of meat and economics of pig farming etc. The practical training on handling, measuring temperature, signs of healthy animals/pigs, teeth cutting and castration was given to the trainees.

The University also organized one week training programme on specialized pig farming as a viable means of self-employment and nutritional security for farmers. A total of 43 candidates attended the programme and got apprised with various topics related to pig farming including breeds, breeding management, shed design, weather management, vaccination protocols, diseases and their prevention, value addition of pork, economics etc. Besides theoretical lectures, practical training on handling of pig, measuring temperature, signs of healthy animals was also imparted to trainees.

### Training of students under NAHEP

College of Veterinary Science organized two days workshop on 'Improving small ruminant health and management for increasing learning outcomes amongst young vets' under the aegis of Institutional Development Plan-National Agriculture Higher Education Programme (IDP-NAHEP) programme. A total of 50 B.V.Sc.&A.H. students participated in the programme. Dr Paula Menzies, University of Gulph, Canada delivered talk on Biosecurity at goat farm, neonatal health care management and important bacterial and viral diseases of goats. The practical sessions were conducted on housing, nutrition and reproductive management, selection and judging of goats, artificial insemination, pregnancy diagnosis using ultrasound, tuberculin and Brucella testing etc. Dr. A S Nanda, Vice-Chancellor, GADVASU applauded the efforts of the project team lead by Dr. P S Brar and urged that such type of workshops will not only provide specific field oriented knowledge but also intend to inculcate the entrepreneurship attitude amongst students. Dr. Nanda motivated students to become job providers than job seekers.

### Dairy Entrepreneurship Workshop

GADVASU in collaboration with National Bank for Agriculture Development (NABARD) Regional Office Ludhiana conducted a workshop on Dairy Entrepreneurship Development Scheme, submission of claims and Government sponsored schemes. The workshop was attended by 30 officers from Dairy Development, Animal Husbandry Department, Bankers and Progressive farmers. Dr. H K Verma, Director of Extension Education informed participants about the Extension services provided by GADVASU for promoting dairy and other inputs provided by university to the farmers. Sh. Parveen Bhatia, DDM, NABARD, Ludhiana explained Dairy Entrepreneurship Development Scheme, a centrally sponsored scheme implemented through NABARD with an objective to promote setting up of modern dairy farms for production of clean milk, encourage heifer calf rearing, bring structural changes in the unorganised sector and generate self-employment. He explained objectives of the scheme and also explained that new subsidy claims to be filed in NABARD Ensure portal, formation of FPOS and other initiatives taken by NABARD Punjab Regional office in Ludhiana for upliftment of rural poor.



Dr. H K Verma addressing participants of workshop

### Workshop on 'Extrusion Technology'

A one day International Workshop on 'Extrusion Technology: A Way Forward to Processing and Nutritional Interventions' was conducted by the Department of Livestock Products Technology in collaboration with KK Lifesciences, Chennai. Thirteen faculty members and 67 post graduate students from Punjab Agricultural University and GADVASU participated in the workshop. Theoretical and two practical hands-on-training sessions were conducted related to Nutritional manipulations for the development of pet foods, Status and Scope of Meat Based Extruded Human and Pet Foods, Novel Snack Food Product Development and Market Launch, etc.

### Out-reaching farmers through 'Pashu Palan Doot'

Directorate of Extension Education of GADVASU initiated the concept of 'Pashu Palan Doot (PPD)', a step forward for reaching to the unreached farmers. PPDs are the farmers trained by GADVASU in different livestock fields for sharing the information and technologies to the fellow farmers about scientific livestock rearing and new happenings in the University. PPDs will encourage farmers to adopt newer innovations as well as practice scientific technologies in addition to availing other University inputs, services and facilities. PPDs have consented to pass the information on honorary basis to the farmers of their area for horizontal learning. University is continuously making efforts for Livestock farmers, farm women and rural youth to skill them in different areas of Dairy, Piggery, Goatry, Poultry, Fisheries and Value addition so that they can start their own venture and can gain maximum return from their livestock based enterprises. For the follow-up of these skill trainings, University braces them regularly and get feedback from the farming community. Till now GADVASU has created three different 'Pashu Palan Doot' groups in Goat, Pig and Dairy categories and trained 193 PPD from all the nook and corners of Punjab and nearby states for dissemination of useful information to fellow farmers.



Pashu Palan Doot(s)

### Advisory against noise and toxic pollutants from crackers of Diwali

Dr. Kirti Dua, Incharge, Centre for Wildlife Studies advised that the pets have stronger hearing powers than human beings which makes them vulnerable to fear and anxiety during the Diwali fireworks. Hence, during the fireworks on Diwali, keep the animal indoors and avoid them from too much of smoke of crackers, which may cause in them severe respiratory distress.

## Activities of Krishi Vigyan Kendra(s)

### Farmers and Scientist of KVK Honoured at International Conference

Four of the farmers from Punjab invited to share their views on crop residue management with the farmers of Bihar at the international conference on crop residue management held at Patna organised by the Bihar Agricultural University, Sabour were honoured by the Honourable Agriculture Minister of Bihar, Dr. Prem Kumar and Vice-Chancellor of Bihar Agricultural University Dr. A K Singh. S. Navjot Singh Brar, Assistant Professor from KVK Tarn Taran won the best poster award for display of the result happy seeder sown wheat.



Award winning faculty and farmers

### Carousing World Fisheries Day

Krishi Vigyan Kendra, Tarn Taran organized the World Fisheries Day programme at Farmers Field School (FFS) at village Chapri Sahib. Twelve fish farmers participated in the programme. During the programme, the experts stressed upon the importance of fisheries and informed that the world fisheries day celebrations serve as a reminder that we must focus on changing the way the world manages global fisheries to ensure sustainable stocks and healthy oceans ecosystem. The role of fisheries in food security both at local and world-wide through sustaining fish stocks for the future by reserving fish for human food was also discussed.



### Farmer-scientist interaction programme under PKVY

Krishi Vigyan Kendra, Tarn Taran organised a farmer-scientist interaction programme under 'Parampragat Kheti Krishi Vikas Yojna' (PKVY). Twenty four farmers attended the programme and interacted with KVK experts on organic farming. The demand for organic produce is increasing rapidly because of growing health concerns. Thus, PKVY, launched by Government of India in 2015, aims to ensure chemicals and pesticides' residue free farm produce by promoting eco-friendly low cost farming practices. Farmers were imparted knowledge about organic seed/seedling production, organic input production viz. compost, vermicompost, panchgavya, jeevamruth, bee-jamruth, botanical extracts, etc. The progressive farmers practising organic farming also shared their experiences with the house.



Farmer-scientist interaction programme

### Awareness activity on Agriculture Education Day

KVK, Mohali organised one day awareness programme on the occasion of Agriculture Education Day at Government Senior Secondary School, Sahauran, S.A.S. to give exposure to students about various fields of agriculture and veterinary and animal sciences. Experts sensitized students about veterinary and allied fields as professional career after schooling and discussed the role of veterinary science in developing agri-entrepreneurs. More than 100 students and teachers participated in the programme.



Certificate distribution to participants

### Animal Welfare and Treatment Camp

KVK, S.A.S. Nagar (Mohali) organized an Animal Welfare and Treatment Camp on the occasion of Kisan Diwas, at village-Rasanheri. Around 60 farmers attended the programme and got benefitted. Expert(s) from GADVASU handled the cases of animals and provided consultancy and advisory to the farmers regarding keeping animal healthy. Livestock farmers were empowered with scientific knowledge on various aspects of dairy animals encompassing feed, fodder, livestock management, animal health and milk production, management of animals in winter season, preparation of silage for dairy animals and treatment and management of mastitis. Farmers were also encouraged for FMD vaccination of their livestock. Free medicines were distributed amongst the farmers to keep animal in good health. A stall for selling of books, mineral mixture, uromin licks was also arranged. KVK distributed literatures viz. pamphlets, leaflets etc. Swachhta pakhwara activity was also conducted.



Farmers listening to experts at Animal Welfare Camp

### Kisan Mela under Jal Shakti Abhiyan

In a bid to create awareness amongst farmers about the ill effects of stubble burning and judicious use of water, Krishi Vigyan Kendra, SAS Nagar (Mohali) organized district level mela under Jal Shakti Abhiyan and block level awareness camp on Crop Residue Management at Derabassi. The farmers, officials from agriculture and allied departments and students participated on the programme. Dr. Harish Kumar Verma, Director Extension Education, GADVASU was the Chief Guest of the occasion. Dr. Verma appealed farmers for proper management of crop residue to maintain soil productivity and use water judiciously for domestic and agricultural purposes and further ensured the farmers of scientific support from the University in these ventures. Dr. Yashwant Singh,

Deputy Director, KVK, discussed the issue of stubble burning in detail and the challenges being faced by farmers. Experts shared their knowledge on various aspects of soil and water conservation. Dr. J S Hundal shared his expertise on utilization of paddy straw for livestock as fodder after treating it with urea. Various departments such as agriculture, horticulture and dairy technology, and private companies exhibited their products and services the mela. College of Dairy Science & Technology, Department of Animal Nutrition and Department of Veterinary and Animal Husbandry Extension from GADVASU also displayed various farmer's centric technologies and literature.



Exhibition at Kisan Mela

### Vocational training on Goat Farming

Krishi Vigyan Kendra, SAS Nagar (Mohali) of GADVASU organized one week vocational training on 'Specialized Goat Farming' at its campus in Kurali. Sixteen farmers took part in the training programme from various part of Punjab. Dr. Yashwant Singh, Deputy Director, KVK motivated farmers for goat farming and proper utilization of resources and maximizing the profit from per unit area. He also briefed trainees regarding various facilities provided by the KVK and GADVASU for the farmers. Experts sensitized participating farmers about comfortable housing management of different categories of goat, breeding programme, diseases of goat, treatment and its control programme, feeding management of different category of goat, recordkeeping, reproductive management and economics of goat farm, utilization of vegetable leftover in goat farming and to cut down cost of feeding, nutritional aspects of goat milk, and value addition of goat milk. Trainees were also given practical exposure at Goat Farm at Fatehgarh Sahib.

### Training in sugarcane cultivation and jaggery making

KVK, Tarn Taran in association with Department of Agriculture and Farmers Welfare, Tarn Taran organised two days training programme on 'Scientific sugarcane cultivation and Jaggery making' under ATMA scheme to bring crop diversification and for promoting self-employment. Participant farmers were given knowledge about scientific cultivation of sugarcane, importance of Jaggery making, procedure of application for FSSAI certification, and schemes of ATMA regarding crop diversification. An exposure visit of farmers to farm of S. Kashmir Singh Brar, a progressive farmer of village Kakoya of Hoshiarpur District was also organised and farmers were imparted practical training for making different types of Jaggery.



Scientific sugarcane cultivation and jaggery training

### World Soil Day

Krishi Vigyan Kendra, S.A.S. Nagar (Mohali) celebrated World Soil Day at village Nangal Faizgarh with the motive to create awareness to save soil health. Dr. H. K. Verma, Director of Extension Education, GADVASU was the Chief Guest of the occasion. He addressed the farmers to save soil health as well as dairy animals and shared his views to increase milk production of dairy animals and value addition of milk.



World Soil Day celebration

### Awareness camp on crop residue management

KVK, S.A.S. Nagar (Mohali) organized the Block level camp on crop residue management at village Sahauran. More than 100 farmers participated in the programme and got benefitted. Experts appealed farmers to not to burn the paddy straw and suggested mixing it in the field to increase the fertility of the land. Farmers were also informed about the new straw-related machinery, its working to manage crop residues and the schemes and subsidies of the Agriculture Department. Experts advised farmers on the use of paddy straw in animal husbandry.



Crop residue management awareness camp

### Green Campus Initiative

Advocating the renewable energy policy of Punjab Government, aimed at meeting the 21% of power requirements of the state through renewable energy by the year 2030 through utility-scale, canal-top, rooftop, floating, and hybrid solar projects, GADVASU installed a Solar rooftop power plant with capacity of 1105 KWp (1.1 MW) at its campus in collaboration with Azure Power Pvt. Ltd. Dr. A S Nanda, Vice Chancellor of the University inaugurated the solar rooftop power plant and emphasized on the 'Green Initiatives' to promote sustainable and eco-friendly system in the University campus. GADVASU took lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions for betterment of the society and environment. Er. Yogesh Sharma, Sub-Divisional Engineer (Electrical) briefed that this plant will produce approximately 4500 units of electricity per day from solar energy for 25 years. The power generated from solar energy will fulfill energy requirements of the university and unused solar power produced will be exported to PSPCL grid. This will help in making the city cleaner and greener as it will reduce 1614 tonnes of CO2 emissions per year.

### Blood Donation Camp on 550<sup>th</sup> Birth Anniversary of Guru Nanak Dev Ji

To commemorate the 550<sup>th</sup> birth anniversary of Guru Nanak Dev Ji, Guru Gobind Singh Study Circle, GADVASU organized a 'Mega Blood Donation Camp' in association with 'Zindagi Live Foundation, Ludhiana' on 6<sup>th</sup> November 2019. About 100 units of blood were collected by the team of Dayanand Medical College and Hospital, Ludhiana. The blood was donated by faculty members, students, and staff of the University. Dr. Amarjit Singh Nanda, Vice-Chancellor of the University inaugurated the blood donation camp and described Blood Donation as the noble way to serve the society. Dr. Nanda further said that the true message of Guru Nanak Dev Ji of serving the society has been spread with this blood donation camp.



Dr. A S Nanda and Officers of the University encouraging Blood

### 1 PB R&V SQN NCC team won 13 medals and brings laurels to Vet Varsity

Cadets from 1 PB R&V SQN NCC GADVASU won 13 medals in Sultanpur Lodhi Horse Show, organised by Punjab Equestrian Association from 31st Oct to 2nd November 2019. GADVASU riders competed with Punjab Armed Police, ITBP, Punjab Police, ASC, YPS Patiala and many more private horse club rider's. Senior Under Officer Vikas Garg, a 5th year BVSc&AH student of the University won gold medal in preliminary show jumping team and silver medal in medley race. Senior Under Officer Gurarshbir Singh Bal won silver medal in preliminary dressage, silver medal in elementary dressage team and bronze medal in elementary dressage at horse show and senior state equestrian championship. Under Officers Pawandeep Kaur and Mehak Sharma won silver medals in 'Ladies Hacks' and 'Cadet Hacks', respectively. Under Officers Shivam Sharma and Satnam Singh won joint gold in 'Cadet Hacks', cadet Vikas Arora and cadet Abheet Aulakh won bronze medal

in 'Cadet Hacks'. Despite of their professional degree the NCC team is working hard and pursuing dream of riding horse and competing professionals.



Winners' team of NCC Cadets

### Awareness Campaign(s) on Crop Residue Burning

Emphasizing the need to create awareness among farming community regarding ill-effects of the crop residue and stubble burning in fields, the NSS volunteers of GADVASU organized the Mega Awareness Campaign at peripheral areas of the Ludhiana including Pamal, Pamali and Baddowal. The NSS volunteers took out a massive rally highlighting the 'havoc' created by burning of farm residues especially stubble burning. Using placards, banners, posters and other demonstrative means and one-to-one interactive sessions, the participants sought to educate farmers on Straw management technologies. More than 100 NSS volunteers from university's three constituent colleges viz. College of Fisheries, College of Animal Biotechnology and College of Dairy Science and Technology participated in the rally. The NSS volunteers carried out another Mega Awareness Campaign on ill effects of stubble burning in nearby villages of Ludhiana including Jhamat, Malakpur, Ayali Khurd, Barewal, Birmi, and Barsem. A total of 120 NSS volunteers from the constituent colleges of the University participated in the rally.



Officers of the University flagging off NSS rally