



e-Newsletter

Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana (Punjab)

**Top Ranked State Veterinary University of India as per
ICAR Ranking for the Year 2019**

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Design & content editing :

Dr. Nirmal Singh, Assistant Librarian

News inputs:

Dr. Harpreet Singh, Public Relation
Officer-cum-Editor, Punjabi

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GADVASU, Ludhiana

Contact Us at:

Editor (E-Newsletter)
GADVASU, Ludhiana
Ph. 0161-2414063-65

gadvasunewsletter@gmail.com

October - December 2020 (4)

From the Desk of the Vice-Chancellor



Guru Angad Dev Veterinary & Animal Sciences University (GADVASU) remained steadfast in academic, research and extension excellence, as evidenced by recent recognition granted by the ICAR as Top ranked State Veterinary University – 2019, with an overall 7th rank amongst agricultural/ veterinary universities/ institutes of India. The credit goes to the untiring efforts of GADVASU fraternity that has repeatedly brought laurels to the University in diverse spheres. Overcoming the initial hardships and challenges of COVID-19 pandemic, the University slowly got back on rails for resumption of academic, research and extension activities under hybrid arrangement of online-offline mode. Virtual Classroom facilities setup recently in the University under NAHEP Component-2 project has provided greater and quality reach of academic programmes to our students.

The University is vigorously reaching out to the stakeholders across the state with the State Government generously supporting development of the state-of-the-art academic, clinical, research and extension infrastructure along with required manpower in different regions of the state. The University has built stronger ties with KVKs across the state for effective dissemination of technologies to all districts.

Establishment of a C-DAC, Mohali (Ministry of Information Technology, GOI) supported Aquaponics Unit at College of Fisheries, as a model integrated precision farming project on 'Aquaculture' and 'Hydroponics', is a step towards realizing the vision of the University for developing and disseminating various integrated farming options for increasing farmers' incomes. The University has embarked upon some new projects including World Health Organisation supported research project on antibiotic resistance, which is a 'One Health' concern.

I am confident that with the dedicated and energized team of youthful officers of the University, faculty and staff; support of the state Government, ICAR and other funding organizations; convergence with relevant institutes of national and international standing as well as sound counsel and resourcefulness of our learned alumni across the globe, the University will further consolidate its position as the torch bearer institute in veterinary and animal sciences not only in the country but internationally.

I wish a very **Happy, Healthy and Prosperous New Year - 2021** to all faculty, staff and students of the University and their families.

(Inderjeet Singh)
Vice-Chancellor

GADVASU tops amongst State Veterinary Universities of the country

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana (GADVASU) has been ranked first amongst the Veterinary Universities of India, as per the ranking of Agricultural Universities and Research Institutes conducted by the Education Division, Indian Council of Agricultural Research (ICAR), New Delhi for the year 2019. GADVASU ranked 7th amongst all 67 State Agricultural Universities, Veterinary Universities and ICAR Research Institutes of the country. The ranking was based on students' and faculty profile, student placements, research publications and citations, patents, technologies generated and transferred to farmers, resource generated and linkages, etc. Dr. Inderjeet Singh, Vice-Chancellor applauded the achievements and congratulated the faculty, staff and students for their dedication and devotion in serving the institution vis-à-vis farming community.



Union Minister of State for Education, Communications and Electronics & Information Technology Inaugurates Aquaponics Unit at GADVASU

Hon'ble Union Minister of State for Education, Communications and Electronics & Information Technology, Govt. of India, Sh. Sanjay Dhotre, virtually inaugurated the 'Aquaponics Vertical Farming System' developed at GADVASU, Ludhiana under the aegis of Centre for Development of Advanced Computing (C-DAC), Mohali under collaborative project funded by Ministry of Electronics and Information Technology, Government of India. Applauding the facility, Sh. Dhotre emphasized to modernize the food production sector(s) to double farmers' income and enhance climate change resilience amongst the farming community. Dr. Inderjeet Singh, Vice-Chancellor, GADVASU shared that 'Aquaponics' involves synergistic combination of 'Aquaculture' and 'Hydroponics' with strong inputs of digital farming technology to promote vertical farming with enhanced nutrient utilization efficiency through recycling of water between the two components, to produce fish and vegetables together as separate entities. Dr. Singh further added that it offers



Hon'ble Union Minister of State, Sh. Sanjay Dhotre, virtually inaugurated 'Aquaponics Vertical Farming System'

putative solution to global warming, with only 10-12% water and land requirement compared to traditional fish and vegetable farming systems, fulfilling the concept of 'More Crop Per Drop'. Dr. Singh said that this facility will help the University to take up required Research and Development for its optimal utilization under climatic conditions of the State, especially for stakeholders with small land holdings.

Teaching and Research Activities

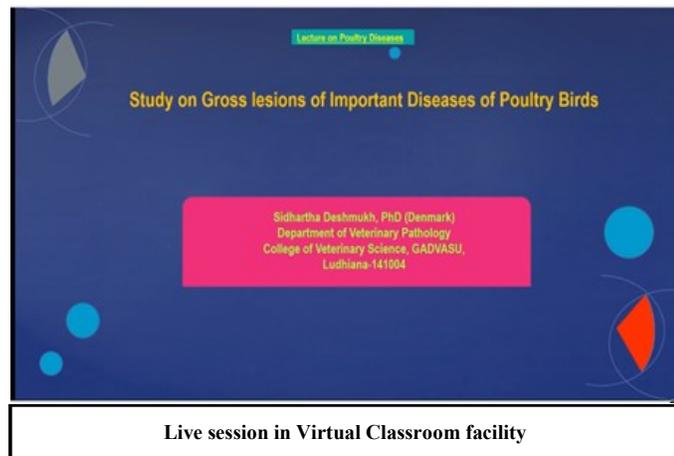
New academic session begins

The University began academic session 2020-21. Dr. H. S. Banga, Registrar shared that for undergraduate programmes counselling were held for admission to a total of 182 seats of Bachelor of Veterinary and Animal Science (B.V.Sc. & A.H.) (101 at College of Veterinary Science, Ludhiana and 81 at College of Veterinary Science, Rampura Phul), 51 seats of Bachelor of Technology (B.Tech.) Dairy

Technology and Bachelor of Fisheries Science (B.F.Sc.), each and 31 seats of B.Tech. (Biotechnology). Admission was made for a total of 92 seats of two years' Diploma in Veterinary Science and Animal Health Technology at Veterinary Polytechnic, Kaljharani. Admissions to various postgraduate programmes were also made against prescribed number of seats in each programme.

Virtual Classroom established

Virtual Classroom facility has been set up in GADVASU under ICAR-IASRI NAHEP Component 2 project 'Investments in ICAR Leadership in Agriculture Higher Education'. GADVASU was selected from amongst top 18 State Agricultural Universities of the country to set up this facility. Virtual Classroom facility has been established to strengthen the education and dissemination of scientific knowledge through technological interventions, as the learners are able to get benefitted from lectures delivered through video capture. In addition, virtual classroom is to be an integral part of the 'blended learning' method through combination of both on-line and in-person teaching/learning.



Live session in Virtual Classroom facility

University introduces 'One Health' Diploma

Centre for One Health initiated Post-graduate Diploma programme in 'One Health' from the academic year 2020-21, in distance learning mode. This programme takes in its' ambit modules related to One Health; encompassing applied research activities on various public health issues such as zoonoses, food safety, climate change, antibiotic resistance, etc. The course will help in the development of scientific attitude amongst students to understand cross-sectoral evidence-based solutions for health risks at the animal-human-environment interface. This multidisciplinary programme will open an array of opportunities for the participants in various public health sector(s) at national and international front(s). This diploma course will help in capacity building and human resource development to counter the emerging public health threats in a better coordinated and effective way.

Virtual Career Counselling on Fisheries

College of Fisheries organized an online career counselling session for its' students in collaboration with faculty of University of Tasmania, Australia (UTAS) and international overseas education consultants in India, AECC Global India. Over 60 students attended the programme and enriched their knowledge about eligibility for higher studies in fisheries at foreign institutions. Owing to such session conducted in the past, fishery graduates from the University got opportunities to pursue higher studies abroad and are well recognized as GADVASU alumni. The University is committed to enhance professional competency of the students so as to produce skilled human resource for serving the live-stock sector.

Strengthening teaching facilities under IDP

To uplift the standards of undergraduate teaching, various facilities have been created under ICAR-NAHEP funded Institutional Development Plan (IDP). Thirteen classrooms have been modified into smart class facilities to make teaching-learning process more interactive and effective for better comprehension of the subject matter for enhanced learning outcomes in students. Further, under social equity, eight sanitary napkin vending machines along with incinerators have been installed in ladies' washrooms in GADVASU campus under IDP. Hostel facilities for students have also been upgraded and thirty washing machines have been installed in boys' and girls' hostels. To boost health consciousness amongst students, various gymnasium equipment have also been provided. Computer lab in the institute has been upgraded to latest facilities. To help students in keeping their belongings safe and secure, a number of student lockers have also been provided.



Facilities developed under IDP

Book on Management of Equine Colic released

Dr. Inderjeet Singh, Vice-Chancellor, GADVASU released the book entitled "**A Practical Approach to Diagnosis and Management of Equine Colic**" authored by Dr. Arun Anand and Dr. Simrat Sagar Singh of the Department of Veterinary Surgery and Radiology. The Vice-Chancellor congratulated the authors and appreciated the effort put in by the veterinary surgeons of the University. The authors described that this is the first book in the Indian subcontinent dedicated entirely to the management of equine colic and written by Indian authors.

Dr. S.P.S. Ghuman, Dean, College of Veterinary Science also appreciated the effort and said that the book will be valuable to enhance understanding of



Dr. Inderjeet Singh, Vice-Chancellor, Officers of the University and authors releasing book

colic in horses amongst students, field veterinarians and clinicians dealing with horses.

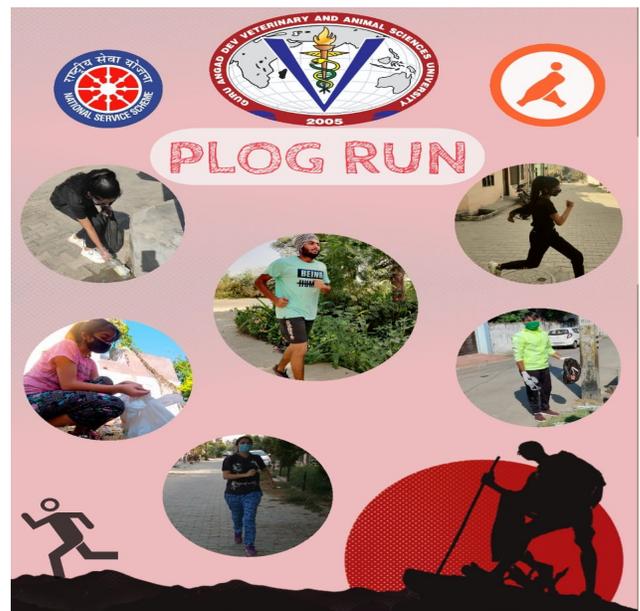
GADVASU bags WHO project on Antibiotic Resistance

The Regional Office for South-East Asian Region of the World Health Organization (WHO) awarded a research project on antibiotic resistance to Centre for One Health, GADVASU. The Centre is actively working in the area of antimicrobial resistance (AMR) for last many years and has several national and international collaborations in this area. Dr. J.P.S. Gill, Director Research shared that the scientists of the University will carry out the situation analysis of the antibiotic use in animal production and agriculture sector and its impact on food safety and AMR for South-East Asia Region. The project will identify the gaps to tackle AMR and make key recommendations for the international agency to solve the problem of antibiotic resistance in South-East Asian regions.

Dr. Inderjeet Singh, Vice-Chancellor lauded the efforts of the scientists and said that the issue of antibiotic resistance has huge economic implications, and it is important to continuously monitor this problem especially in animal production and agricultural sector to work out ways and means to

NSS organized plog run

NSS volunteers (210) of GADVASU took part in 2 KM Plog Run-2020 to create awareness about reducing pollution by proper disposal of plastic. The unique event was conceived as a part of State Government initiative to combat the growing threat from plastic pollution by including the most powerful stakeholders such as local citizens. Complementing the NSS volunteers, Dr. Satyavan Rampal, Director Students' Welfare-cum-Estate Officer said that the Plog Run integrates three earlier programmes introduced by the state government - Fit India, Clean India and Plastic-free India. The event resulted in tangible impact with the running route virtually turning plastic free besides educating the locals about healthier waste management practices. The event also marked the birth anniversary of Gandhi Jayanti and contributed towards Swachh Bharath Abhiyan, held at various places in Punjab.



Award(s)/Honour(s)

Veterinary College alumnus named the Research Leader in Australia

Dr. Navneet Dhand, an alumnus of College of Veterinary Science, has been named as the Research Leader in the field of Veterinary Medicine by 'The Australian Special Research Report 2020'. Dr. Dhand is currently serving as Associate Professor at the University of Sydney, Australia.



He is also the Director of the Asia Pacific Consortium of Veterinary Epidemiology established to train a new generation of 'animal disease detectives' in 11 countries across Southeast Asia and the Pacific. Dr. Inderjeet Singh, Vice-Chancellor congratulated Dr. Dhand and said that this is a matter of great pride and fulfilment that the University alumnus has been selected as the top Veterinary Scientist in Australia. Dr. Singh added that GADVASU has produced several global animal health leaders and many of the University alumni are working on significant leadership roles around the world.

Veterinary Pathologists win laurels at International Veterinary Pathology Congress

The students and faculty members of the Department of Veterinary Pathology, College of Veterinary Science brought laurels at online International Veterinary Pathology Congress-2020 organized by the Department of Veterinary Pathology, College of Veterinary Science, Nagpur.

- Dr. Nittin Dev Singh, Associate Professor was bestowed with IAVP Dr. B.L. Purohit Memorial Best Toxicologist Pathologist award.



Students:

- Dr. Syedah Asma Andrabi bagged young scientist award for her work on chicken infectious anemia;
- Dr. Monika Thakur got second best poster award for her research work on rabies; and
- Dr. Anamika Gupta got ICVP Appreciation Award for her research work on Mycobacterium. Dr. Sarvpreet Singh Ghuman, Dean, College of Veterinary Science congratulated the awardees and faculty for their splendid achievement.

Scientists bag "Best Presentation Award" in International Webinar

Dr. Jasmine Kaur, Associate Professor, Department of Animal Nutrition, College of Veterinary Science bagged the "Best Presentation Award" for paper entitled "In vitro nutrient utilization and methane production potential of diets containing rice gluten meal" co-



authored with Dr. Manpreet and Dr. Jaspal Singh Hundal, in the International Webinar on "Climate Smart Livestock and Poultry Production through Nutritional Interventions" organized by the Directorate of Centre for Animal Production Studies, Tamil Nadu Veterinary and Animal Sciences University.

Research Team lead by Dean, College of Animal Biotechnology earns patent

The team of investigators at Indian Council of Agricultural Research (ICAR)-Indian Veterinary Research Institute (IVRI), led by Dr. Yashpal Singh Malik, currently Dean, College of Animal Biotechnology, GADVASU has made a groundbreaking invention on bovine rotavirus diagnosis which has



been recognised by the Indian Government by protecting it through patent. This research work was initiated under the leadership of Dr. Malik at Indian Veterinary Research Institute, Bareilly with an aim to come up with effective diagnostics against rotavirus infection in bovines. The team has identified certain synthetic multiple antigenic peptides that can be used to detect the rotavirus infection which causes diarrhoea in new-born and young calves.

Dr. Inderjeet Singh, Vice-Chancellor, GADVASU congratulated Dr. Malik for his contribution in this exemplary research work and wished that the able leadership of Dr. Malik will enable the College of Animal Biotechnology to do farmer-oriented translational research work.

Students brought national laurels

The postgraduate students from Department of Livestock Products Technology brought laurels to the University at XVI National Conference on "Sustainable Contribution of ATMANIRBHAR Women Veterinarians in Enrichment of Production Potential in Livestock through Application of Modern Technologies" organized by College of Veterinary & Animal Sciences, Parbhani, Nagpur and Indian Association of Women Veterinarian, in online mode.



- Dr. Jyoti, Ph.D. scholar was conferred with "Young Scientist Award" for her research work on meat authentication.



- Dr. Apeksha Jangir, M.V.Sc. scholar won "Best Poster Award" for her research work on "Development of low fat functional pork nuggets".

- Dr. Deepika Jamadar, M.V.Sc. student won the 2nd prize in oral presentation entitled "Meat and Egg based pasta products".



Dr. Inderjeet Singh, Vice-Chancellor complimented the winners for their achievement(s) with a message that women scientists play a very crucial role in uplifting the animal husbandry research/ innovation and offering sustainability to livestock sector for enhanced food security and safety.

KVK Mohali Scientists Bag Awards in National Conference

The Scientists of Krishi Vigyan Kendra, S.A.S. Nagar (Mohali) brought laurel to the University during the Second National Conference on

'Advances in Sustainable Agriculture'.

- Dr. Vikas Phulia, Dr. Navjot Singh Brar and Dr. Munish Sharma received awards for their extension work carried out in respective disciplines in more than five years of service and for the scientific and extension literature published.
- Dr. Yashwant Singh and Dr. Vikas Phulia also bagged the Best Paper Presentation Awards.

KVK Tarn Taran Scientists got awards at International Conference

- Dr. Piverjeet Kaur Dhillon, Assistant Professor, Home Science received Best Ph.D. Thesis Award in the field of nutrition and dietetics during an International Conference on "Empowering Girls for a Brighter Tomorrow" organized by International Association of Research and Developed Organization (IARDO) at SNTD Women's University, Mumbai. Her research work was on the topic "Nutrition Knowledge in Association with Health Status of Prostate Cancer (PCA) Patients in Selected Hospitals in Bathinda City".



- Dr. Bhanu Prakash. Ch, Assistant Professor, Fisheries was conferred with "Young Fellow Award" International Conference of Research, Analyze, Communicate and Evaluate (RACE-2020), organized by International Association of Research and Developed Organization (IARDO) at Kasetsart University, Bangkok, Thailand for his contribution in the field of Aquaculture.

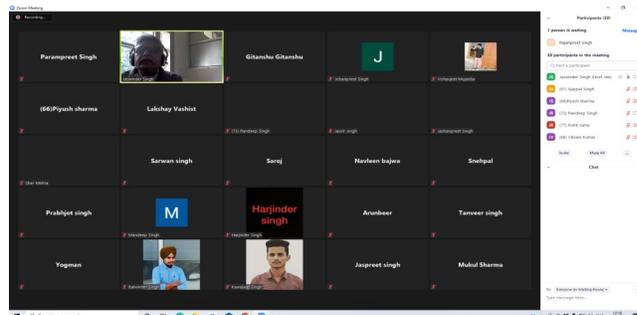


Webinars/Seminars/Workshops/Trainings

Webinar to mark World Antimicrobial Awareness Week

Directorate of Extension Education of the University organized a webinar to mark World Antimicrobial Awareness Week, to help the livestock farmers to acquire intimate knowledge regarding the ill effects of misuse of antibiotics on food animals. The experts shared their concern on use of antibiotics on animals and their harmful effects on the health of animals as well as the consumers of animal products and further stressed on minimizing the use of anti-

otics and shared important tips for the prevention of diseases in dairy animals.



National Webinar on World Egg day

On the occasion of World Egg Day, Department of Livestock Products Technology of the University organized National Webinar on theme '**Eggcellent Ways to Promote Health**' under the aegis of ICAR -Institutional Development Plan of National Agricultural Higher Education Project (NAHEP). About 250 participants attended the webinar and got benefitted. Dr. Inderjeet Singh, Vice Chancellor, GADVASU applauded the efforts of scientists for highlighting such a pertinent issue linked to human health and stressed on the need-based research and development with increased participation of industries.



National webinar on World Egg Day

Celebration of World Fisheries Day

College of Fisheries celebrated the 'World Fisheries Day' in virtual mode in collaboration with the IDP Cell of the University under ICAR-NAHEP. A total of 232 participants attended the event. A national level "Video Documentary Competition" on the theme "Entrepreneurship Opportunities in Fisheries" was organized.



Celebration of World Fisheries Day in virtual mode

Bamaniaya Pinak Kamaleabhai (Junagarh Agricultural University, Veraval, Gujrat) and Amaanat Kaur (GADVASU) were awarded 1st and 2nd prizes respectively; and Manpreet Singh (GADVASU) and Krishnakant Choudhari (Nanaji Deshmukh Veterinary Science University, Jabalpur, Madya Pradesh) shared the 3rd prize.

Quiz on World Polio Day

College of Animal Biotechnology conducted an online quiz competition for the students on the occasion of World Polio Day. The organizers provided brochure and reference material on vaccines to the students for preparation and encouraged them to update their knowledge on vaccines and vaccination issues. There was an overwhelming participation by the students and winners of the competition were awarded with merit certificates.

E-training on Diagnostic Cytology

Department of Veterinary Pathology of the University organized a 5 days e-training on "**Diagnostic Cyto-pathology**" with the support of National Agricultural Higher Education Project-Institutional Development Plan (NAHEP-IDP) with an aim to decipher the knowledge of cyto-pathology to the trainees. A total of 41 Veterinary Pathologists participated in the training and honed their knowledge and skills about different aspects of diagnostic cytopathology.

Training programme(s) on 'Reproductive Management of Dairy Animals'

Department of Veterinary and Animal Husbandry Extension Education organized a training programme on "**Reproductive Management of Dairy Animals**" under Rashtriya Krishi Vikas Yojna Scheme at villages Mushkabad, Todarpur, Manupur and Kotala of Ludhiana District for dairy farmers belonging to Scheduled Castes. The University Expert(s) delivered talk(s) on the role of balanced nutrition in animal reproduction along with care of pregnant animals, tips for getting maximum results following artificial insemination. Further, the common reproductive problems of dairy animals were discussed. Technical literature published by the University, mineral mixture bags and uromin licks were also

distributed to the beneficiary farmers free of cost as start-up kits to promote adoption of recommended practices .



Training team with beneficiary farmers

Training programme on Poultry farming

The University organized offline training programme on Poultry Farming observing all COVID-19 safety measures as per instructions of Government. The trainees were provided basic knowledge on different aspects of poultry farming like breeds, breeding, feeding, day to day care & management, shed design & structures, weather management, light requirement, vaccination protocols, diseases & their prevention, value addition of egg and meat, economics of poultry farm, etc. Besides theoretical lectures, practical training on handling of birds, measuring vital parameters, signs of health was also provided to the trainees.



Training programme on Poultry farming

Webinars for livestock, poultry and fish farmers

The University organized webinars for livestock, poultry and fish farmers. During first webinar, expert(s) delivered talk on important breeds of goats and emphasized to rear breeds which are naturally adapted to their local region and discussed that every breed has its' own specialty for

meat and milk production. During second webinar participants were apprised about repeat breeding menace in cattle. Expert(s) encouraged farmers to maintain proper record(s) so that the past history and previous date of heat is ascertainable. The role of semen, its availability and factors associated with its potency were also discussed during the webinar.

Sensitization programme on 'Micro Food Processing Enterprises Scheme'

A Webinar on "Prime Minister Formalization of Micro Food Processing Enterprises" (PMFME) Scheme for its promotion & Publicity was organized in the University with support of Ministry of Food Processing Industries, Government of India. GADVASU is one amongst the 45 universities earmarked by the Ministry across the country to organize such seminars. Nearly 100 participants attended the webinar and got benefitted. Participant were apprised about how this scheme can be beneficial for individuals, groups and for institutes, highlighting salient features of the scheme in context to livestock sector.

Webinar to Promote Entrepreneurship in Ornamental Fisheries

College of Fisheries organized a webinar to promote entrepreneurship skills amongst fishery graduates under the theme "Ornamental Fisheries- Opportunities Unlimited" in collaboration with IDP-Cell under ICAR-NAHEP project. Successful fisheries professional turned entrepreneurs were invited to interact with the students so as to attune them to take up ornamental fisheries as a remunerative enterprise. Expert(s) sensitized the students about the promising mercantile opportunities in ornamental fisheries to be adopted innovatively to evolve smart attractive business outlets/service hubs.



Webinar on entrepreneurship in ornamental fisheries

National Webinar on ‘Lactic Acid Bacteria from Starter Cultures to Cell Factories for Probiotics’

Department of Dairy Microbiology, College of Dairy Science and Technology organised a national webinar on “**Lactic Acid Bacteria from Starter Cultures to Cell Factories for Probiotics**” to familiarize dairy technology students with fast emerging application of lactic acid bacteria as probiotics, postbiotics and globobiotics; besides having traditional role as starter cultures. A total of 117 students of B.Tech. (Dairy Technology) and faculty members from 29 different institutions across India participated in the webinar.

Interactive Webinar on Fish farming

Directorate of Extension Education of GADVASU organized a webinar on “**Best Management Practices for Fish Farming**”. Expert(s) shared important tips for the management of fish pond with the farmers and stressed that farmers must have a sound knowledge of the management practices to be successful in this enterprise. The farmers were advised to focus on minimizing losses due to disease incidence and mortality. Expert(s) deliberated about the importance of water quality and timely cleaning of the pond to boost production.

Training(s) on emerging infections of dogs and advances in mammary tumor diagnosis and treatment

College of Animal Biotechnology organized trainings on “**Emerging bacterial infections of canine with special reference to leptospirosis**” and “**Advances in mammary tumor diagnosis and treatment**” as a part of the Department of Biotechnology (DBT), Government of India sponsored Canine Research Centre and Networks Programme. Eminent subject specialists from different national institutes delivered the expert lectures.

University commemorates the Role of Women in Dairy Farming

The University organized a webinar on “**Role of Women in Dairy Farming**”. Speakers shared the success stories of women who adopted dairy farming, poultry farming for earning handsome money for the sustainability of their family and advised the participant farmers about pros and cons in the dairy farming to extract maximum profitability. The participants were guided to take care of their health & include milk/milk products, eggs & meat in diet.

Online Training on Bioinformatics

The Department of Bioinformatics, College of Animal Biotechnology of the University organized e-training on Bioinformatics, sponsored by Department of Biotechnology, Government of India funded project on parentage determination in dogs, aimed to promote online learning to impart proficiency in bioinformatics to the trainees from diverse academic backgrounds. Hundred participants of the training programme were apprised about the different aspects of molecular data analysis.



Sensitization of school students about animal-agriculture role in daily life

Directorate of Extension Education of the University held an e-Seminar on the occasion of *Agriculture Education Day* for school students. A total of 67 students from three different schools of Ludhiana District participated in the seminar. The students and staff of the schools and briefed about various professional courses offered by the University in veterinary sciences, fishery sciences and dairy technology and were apprised about the entrepreneurship and employment opportunities for the young talented school pass-out students in these streams.



Students participating in programme

Activities of Krishi Vigyan Kendras

KVKs are the vital link between research institutes and farmers-Dr. Inderjeet Singh

The 3rd Scientific Advisory Committee (SAC) meetings of all three Krishi Vigyan Kendras (KVKs) of GADVASU were held on respective campuses under the Chairmanship of Dr. Inderjeet Singh, Vice-Chancellor of the University. Dr. Parkash Singh Brar, Director, Extension Education co-chaired the meeting. In each of these meetings around 40 officials of GADVASU, Punjab Agricultural University (PAU), ICAR institutes, related departments and progressive farmers participated. The Vice-Chancellor said that KVKs are an important link between research institutes and farmers as they help in transferring technologies from laboratory to field efficiently. He advised the KVKs to expand their area of work in agriculture sector involving livestock, fisheries, apiary, integrated farming system (IFS) and value addition with focus for strengthening the small and marginal farmers. As livestock sector can lift farmers' income substantially, Dr. Singh suggested the scientists to disseminate the successful technologies of the University and other institutes to the farmers in this critical scenario. The Vice-Chancellor was delighted over the overwhelming response and satisfaction of the farming community with regards to activities and the strides made by KVKs. He appreciated farmers associated with KVK, Booh in achieving many national level awards in a short span of functioning of KVK.



Dr. Inderjeet Singh, Vice-Chancellor and officers at SAC

National Nutrition Month

Krishi Vigyan Kendra, Booh (Tarn Taran) celebrated the National Nutrition Month at its campus and different villages of district Tarn Taran. The month long events encompassed demonstration on establishment of nutria-garden at KVK campus,

mobile advisory promulgation to Anganwadi workers and farm community, expert talks on household remedies to cure day to day afflictions of women, 'Kisan Sabha', distribution of vegetable seed kits supplied by Government of India to the beneficiaries, lectures regarding common nutrient deficiencies among women and children, distribution of scientific literature, webinar(s), etc.

Workshop-cum-interface of KVK scientist and Veterinary Officers

One day workshop-cum-interface of KVK scientist and Veterinary Officers of Department of Animal Husbandry district Tarn Taran was organized at KVK, Booh. A total of 16 Veterinary Officers participated in the workshop. Expert(s) emphasized on adopting ICT tools to promote digital marketing in the district, strengthening of processing in livestock sector and resolving the issues faced by professionals. Dr. Parkash Singh Brar, Director of Extension Education emphasized on strong collaboration between KVK and Veterinary Officers for the dissemination of technologies developed by GADVASU for the benefits of Livestock Farming Community and motivated the participants to attend the online training courses, organized by the University.

KVK Booh Celebrates Kisan Diwas

KVK, Booh celebrated Kisan Diwas to appreciate the farmers as they are the backbone of the country. Dr. Balwinder Kumar, Associate Director (Training) while highlighting the importance of this day said that this day is celebrated in the memory of India's fifth Prime Minister Chaudhary Charan Singh as he framed popular welfare schemes for farmers of the country. Around 50 farmers participated in the event and interacted with KVK team.



Kisan Diwas celebrations

Expert(s) disseminated information to the participants about different agricultural vis-à-vis livestock farming aspects encompassing maintenance of soil status using vermicompost, role of value addition in income generation by minimizing food losses, establishment of integrated livestock entrepreneurships, etc. Progressive farmers S. Gurbachan Singh, S. Balkar Singh and S. Mukhtar Singh motivated farmers to enhance agriculture and livestock ventures through learning from the KVK.

Training programme on Scientific Goat farming

KVK, Booh organized 5 days Vocational Training Programme on “**Scientific Goat farming for self-employment**” under Rastriya Krishi Vikas Yojna Scheme. A total of 25 farmers attended the training programme. Expert(s) imparted knowledge to the participants on importance of goat farming, breeds and reproductive management of goats, goat rearing through different models, value of goat milk and meat, value addition techniques to develop curd, cheese, khoa and meat recipes, lay out plans for goat farming, importance of vaccination in goats, different diseases and their possible treatment, artificial insemination and abortion in goats, and economic evaluation of goat farming by demonstrating the procedure involved in record keeping.



Training on scientific goat farming

Vocational training on value addition of fruits and vegetables

KVK, Barnala organized vocational training on “**Value addition of fruits and vegetables**”. Farmers were motivated for value addition of milk, meat and agriculture produce to get higher economic returns and generate self-employment for livelihood. The training was based on “learning by doing principle” and trainees honed-up their skills by trying hands on value addition of products during the programme.

Training on Calf Management and Infectious and Reproductive Diseases

Regional Research and Training Centre, Talwara organized one day Training cum Awareness camp under RKVY on Calf Management and Infectious and reproductive diseases of dairy animals at Village Daggan and village Adampur Motian of Hoshiarpur District. A total of 57 farmers belonging to scheduled caste category participated in the training programme. Expert(s) delivered talk on various aspects of calf management, importance of vaccination and deworming in calves, identification of sick animals and common infectious diseases of dairy animals in Kandi area and their prevention and management. Information for various activities carried out by the RRTC, Talwara was also provided to the participating farmers. Farmers were advised to start adopting modern and scientific methods of Livestock rearing so that they can earn better livelihood.

Training Programme on ‘Nutritional Deficiency in Dairy Animals’

KVK, Mohali organized training programme on “**Nutritional Deficiency in Dairy Animals**” under RKVY-12 scheme for SC/ST farmers of village Naglian. A total of 27 farmers took part in the training programme. Expert(s) guided participants about balanced feeding to dairy animals, nutritional deficiency in dairy animals and briefed trainees regarding various facilities provided by KVK and the University for the farmers.

The University literature, mineral mixture, uromin licks and nutrition calendars were distributed free of cost to the trainees. Progressive dairy farmers also interacted with participants and benefitted them by sharing their valuable experiences.



Training on ‘Nutritional Deficiency in Dairy Animals’

Mahila Kisan Diwas

KVK, Booh celebrated Mahila Kisan Diwas at Village Toot, under the theme “**Role of women in agriculture, women empowerment, nutrition and**

income generation, etc". A total of 27 farm women participated in the event and interacted with KVK team. The KVK Scientists motivated participants to grow their entrepreneurs with technical guidance from KVK and assured them of providing information pertaining to skill development in food processing and value addition for better earning and livelihood.

Vocational Training on Scientific Fish Farming

KVK, Mohali organized one week vocational training on Scientific Fish Farming for encouraging youth to adopt fish farming for employment generation. Participants were provided detailed information regarding site selection, pond construction, species selection, pre-stocking, stocking and post-stocking management, nursery management of carp seed, feeding and health management, integrated fish farming, etc. Expert(s) acquainted the participants regarding the potential of shrimp farming in inland saline areas of Punjab, role of water quality management in aquaculture, breeding and seed production of ornamental fishes and prospects of ornamental fish farming as an enterprise for the youth.

The trainees were also shown various video documentaries on fish farming and a visit of trainees was also organized to fish farm of progressive fish farmer, S. Amarpreet Singh Hansrao (Chief Minister awardee) at Chamkaur Sahib.



Training on Scientific Fish Farming

Vocational training on scientific dairy farming and value addition of dairy produce

KVK, Booh organized a vocational training course on “**Scientific dairy farming and value addition of dairy produce for self-employment**” under RKVY-12 at village Sangwan. A total of 30 resource poor households from scheduled caste par-

-ticipated in the training and got benefitted. Experts highlighted the significance of livestock for earning livelihood by small and marginal farmers and also suggested steps to enhance the milk production of cattle and buffaloes through improved package & practice. Demonstrations of flavoured milk, *paneer*, and mango whey drink were organised. Expert(s) visited individual farmers' house holds to check the health status of animals and suggested measures for better animal health management and techniques to improve milk production in dairy animals. Books on dairy farming and balanced feed preparation along with literature on value added dairy products; area specific mineral mixture and uromin licks were distributed to the trainees.

Camp(s)/training programme(s) on Crop Residue Management

KVK, Booh organized district, block and village level camps/ training programme(s) on Crop Residue Management in scientific way. Expert(s) urged the farmers to use crop residue management machinery for effective management of paddy straw as burning of it causes bad effect on environment.

KVK, Mohali also organized such programmes and created awareness about plethora uses of paddy straw. Farmers were encouraged to help the administration to get rid of menace of stubble burning.



Training on scientific dairy farming

Workshop on low cost fruit fly trap

KVK, Booh organized a workshop under the Project “**Development of low cost fruit fly traps for Cucurbit Vegetables and its demonstration at farmers' fields in border area of district Tarn Taran**” funded by NABARD. A total of 40 farmers attended the workshop and got benefitted. Expert(s) emphasized on increasing the area under horticultural crops for agricultural diversification and informed the participants that cucurbit fruit fly infests over 70 host plants.

Visit(s) of the Vice-Chancellor to outstation(s)/enterprise(s)

Visit to College of Veterinary Science, Rampura Phul

Dr. Inderjeet Singh, Vice-Chancellor, GADVASU visited College of Veterinary Science, Rampura Phul to review the working and facilities of the college. He encouraged the entire faculty and employees to perform their duties dedicatedly for the welfare of the society and for the betterment of the livestock and farmers. Dr. Singh cherished that the facilities developed at the college would be a boon for the livestock farmers of the area and the pass out veterinarians of the college would serve the state of Punjab and elsewhere with good competence.



Dr. Inderjeet Singh, Vice-Chancellor planting a tree sapling at college campus

The college has well-equipped Teaching Veterinary Hospital to cater to the needs of large and small animal health care. The latest diagnostic equipment including X-ray machines, Ultra Sound etc. are available. Facilities for Artificial Insemination with

superior quality semen to improve the livestock productivity is also being provided in the area.

Vice-Chancellor visits Veterinary Polytechnic Kaljharani (Bathinda)

The Vice-Chancellor visited Veterinary Polytechnic and Regional Research and Training Centre (VP & RRTC), Kaljharani to review its' activities. Dr. J.P.S. Gill, Director Research and Dr. R.S. Grewal, Director Livestock Farms also accompanied him. Dr. Sittal Dev Jindal, Principal-cum-Joint Director, Kaljharani, briefed about various activities and achievements of Veterinary Polytechnic and R.R.T.C, Kaljharani.

The Vice-Chancellor visited the Sahiwal cattle farm run by AICRP under ICAR, New Delhi and highlighted the importance of applying latest techniques developed by the University for upliftment of indigenous cattle for dairying.



Dr. Inderjeet Singh, Vice-Chancellor inspecting exhibition

Modern mechanized dairy farms are need of the hour - Dr. Inderjeet Singh

A delegation of experts from the University led by Dr. Inderjeet Singh, Vice-Chancellor visited Frontier Dairy Junction, a modern mechanized dairy farm at Halwara (Ludhiana), spread over an area of more than 12 acres with 700 crossbred animals. The Vice-Chancellor assured farm owners full cooperation and expert support for resolving the problems being faced by them at farm. Dr. Singh opined to send students of the University to understand the needs of organized dairy farmers and for replicating good practices to other farms too.



Vice-Chancellor and Officers of the University at Frontier Dairy Junction

Retirement(s) of Officer(s)

Dr. Kulbir Singh Sandhu retires from the University



The Vice-Chancellor and Officers of the University honouring Dr. K. S. Sandhu

After serving for 36 years in the field of Veterinary Sciences, Dr. K. S. Sandhu retired from the University after attaining the age of superannuation, as Dean, College of Fisheries. A farewell function was arranged in his honour. On this occasion, Dr. Inderjeet Singh, Vice-Chancellor applauded the services of Dr. Sandhu and said that he has contributed a lot in the field of microbiology/ epidemiology. His research, academic and administrative achievements were discussed and acknowledged in the farewell function by officers of the University.

Dr. Sandhu did his graduation and post-graduation from Punjab Agricultural University (PAU) in Veterinary Sciences. He did his Ph.D. from University of Guelph, Canada and Post Doctorate from AUBURN University, USA. Dr. Sandhu started his career as Assistant Professor (Bacteriology) in 1984 in PAU and served GADVASU in different capacities viz. Director Student's Welfare-cum-Estate Officer, Director of Extension Education and Dean, College of Fisheries. He also served as

Member, Punjab Public Service Commission, Patiala for six years. Dr. Sandhu has been decorated with different prestigious awards and honors in his career path. He also contributed a book entitled '*Handbook on Infectious Animal Diseases*'. He handled a number of research projects as principal investigator for monitoring, surveillance and diagnosis of important animal diseases. He was placed in different national reputed committees of microbiology and also functioned as National Consultant, Avian Influenza by Food and Agriculture Organization of United Nation.

Dr. H. K. Verma retires from the University

Dr. H. K. Verma, Director of Extension Education retired after attaining the age of superannuation. Dr. Inderjeet Singh, Vice-Chancellor appreciated the services of Dr. Verma at the farewell function arranged in his honour. Dr. Verma started his career as Assistant Professor



in the Department of Veterinary Gynaecology in 1989 in Punjab Agricultural University, Ludhiana. After the formation of GADVASU in 2006, Dr. Verma was entrusted by the University to work as Public Relation Officer. He contributed 36 books on livestock farming and Vigyanak Pashu Palan, a farmer friendly monthly magazine, with more than 5000 subscribers. Dr. Verma was the recipient of several awards and Peer recognition as fellowships of NAVS, ISSAR, NADSI and ISEE.

Colleges/KVKs/RRTCs of GADVASU

Constituent Colleges

- College of Veterinary Science, Ludhiana
- College of Fisheries, Ludhiana
- College of Dairy Science & Technology, Ludhiana
- College of Animal Biotechnology, Ludhiana
- College of Veterinary Science, Rampura Phul (Bathinda)
- Veterinary Polytechnic College, Kaljharani (Bathinda)

Affiliated Colleges

- Khalsa College of Veterinary Science, Amritsar
- BHJD College of Veterinary Health, Badal, Muktsar

Krishi Vigyan Kendras

- Village Booh, Dist. Taran Taran
- Village Handiaya, Dist. Barnala
- Village Majra, Dist. Mohali

Regional Research & Training Centres

- Kaljharani, Bathinda (Sahiwal Cattle)
- Talwara, Hoshiarpur (Beetal Goat)
- Taran Tarn (Buffalo Research Centre)
- RRTC & Multi-Specialty Veterinary Hospital, Sappanwali, Fazilka (Integrated Farming System)