



Inside this issue:

Inauguration of Virtual Classroom	2
Visit of the Punjab State Agricultural Production Planning Committee	2
Bhumi Pujan ceremony of Multi-Specialty Veterinary Hospital	2
Teaching and Research Activities	3-4
Visits of the Vice-Chancellor	5
Award(s)/Honour(s)	6
Webinar(s)/Seminar(s)/Workshop(s)/Training(s)	7-12
Activities of Krishi Vigyan Kendra(s)	12-14

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Design & content editing :

Dr. Nirman Singh, Assistant Librarian

News inputs:

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

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Contact Us at:

Editor (E-Newsletter)

GADVASU, Ludhiana

Ph. 0161-2414063-65

gadvasunewsletter@gmail.com

## 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

[www.gadvasu.in](http://www.gadvasu.in)

April - June 2021 (2)

### From the Desk of the Vice-Chancellor



Guru Angad Dev Veterinary and Animal Sciences University (GADVASU) undertakes the trinity mandate of teaching, research and extension activities to provide specialized services to stakeholders, livestock owners, government, semi-government and allied agencies for better performance and sustainable development of the livestock sector.

To mitigate the issue of stray cattle and serve as a demonstration unit for cost-effective and scientific cattle management, the University has taken up an initiative to set up a Model *Gaushala* at the University campus. The *Gaushala* would be a workable model

with zero-waste production for mimicking at village, block, district, state and national level, for upkeep and managing the stray cattle on self-reliant basis. Such initiatives are pivotal, not only for reducing the road accidents and crop/plantation damages caused by the stray cattle, but also for prevention of their malnutrition and sufferings.

The University advocates the transfer of products/technologies developed by its various colleges/department(s) for harnessing optimum utilization of research potential. Establishment of Pashu Palak Tele-Advisory Kendra at GADVASU under the project funded by National Bank for Agricultural and Rural Development (NABARD) is an endeavour in this direction. The Tele-Advisory Kendra would be instrumental for establishing strong linkages between livestock farmers and scientific fora of the University imparting scientific knowledge to the information deficit stakeholders. Reaching out to the farmers through mobile application will be priority of the University under Tele-Advisory Kendra project. The construction work of Multi-Specialty Veterinary Hospital and Regional Research-cum-Training Centre at Village Sappanwali, Fazilka has been initiated for facilitating specialized veterinary services in the remote area of Abohar-Fazilka.

Notwithstanding the speed-breakers caused by COVID-19 pandemic crises, GADVASU has been doing exceedingly well in academics by embracing state-of-the-art technological interventions. After becoming first Veterinary University in the country to implement Learning Management System during emergence of COVID-19 pandemic in India in 2020, the University has been chosen amongst 18 universities of the country for setting up the Virtual Classroom facility under National Agricultural Higher Education Project. Cutting across the geographical boundaries, this facility has been helping the students to access and broach upon the subject matter for assimilation of contents.

I feel pleasure that the scientists of the University have been recognised by the National Academy of Veterinary Science and other national and international agencies by awarding them fellowships and other honours for their contribution(s) towards veterinary and animal sciences.

I appreciate the enthusiasm of the officers, faculty, staff and students of the University to work tirelessly for uplifting the livestock sector.

**(Inderjeet Singh)**  
Vice-Chancellor

## Union Agriculture Minister inaugurates 'Virtual Classroom' Facility

Sh. Narendra Singh Tomar, Hon'ble Union Minister of Agriculture and Farmers Welfare virtually inaugurated the 'Virtual Classroom' and 'Agri-Diksha Web Education Channel' at GADVASU under National Agricultural Higher Education Project. The Union Minister stressed on the quality research and advanced agricultural education that can make agriculture a medium of employment generation. Shri Parshottam Rupala, Hon'ble Union Minister of State for Agriculture and Farmers' Welfare, Dr. Trilochan Mohapatra, Secretary (DARE) and Director General (ICAR), also graced the occasion. Dr. Inderjeet Singh, Vice-Chancellor undertook the curtain raising ceremony of the 'Virtual Classroom' at GADVASU and shared that the state-of-art technology allows the blend of learning media to have a better comprehension of the subject(s) cutting across the boundaries of space and time.



## Punjab State Agricultural Production Planning Committee Visits GADVASU

The Punjab State Agriculture Production Planning Committee under the Chairmanship of S. Rana Gurjeet Singh, former Cabinet Minister of Punjab visited GADVASU and deliberated upon the ongoing research projects in the University. During the visit, technologies and products developed/standardized by different departments/colleges of the University were displayed through an exhibition, which earned appreciation from the committee members.



S. Rana Gurjeet Singh being welcomed by the Vice-Chancellor

## Bhumi Pujan ceremony of Multi-Specialty Veterinary Hospital

The *Bhumi Pujan* ceremony was held for starting construction of the first phase of Multi-Specialty Veterinary Hospital and Regional Research and Training Center (MSVH&RRTC) at village Sappanwali in presence of Dr. Inderjeet Singh, Vice-Chancellor, GADVASU. The MSVH&RRTC is being established to address area specific specialized services, diagnostic facility, surgical suites to assist clinicians in the diagnosis and treatment of disease(s) in animals. The Vice-Chancellor highlighted the significance of the Center for addressing livestock problems of the area. The Center also envisages the promotion of area specific need based research on production of livestock for strategic promotion and socio-economic benefits to the farmers.



## Teaching and Research Activities

### Project for setting up Model *Gaushala*

Dr. Inderjeet Singh, Vice-Chancellor was instrumental in getting a project entitled “Setting up of Model *Gaushala*” to the tune of Rs. 107.31 lakh from Punjab Government to be established at GADVASU. While acknowledging S. Tript Rajinder Singh Bajwa, Cabinet Minister, Rural Development and Panchayats, Animal Husbandry and Fisheries, Dairy Development, the Vice-Chancellor shared that S. Bajwa has vision to make streets of Punjab free from stray animals and this project was developed with his foresight on sustainable *Gaushala* management. The *Gaushala* will be aimed at managing the stray cattle on self-reliant basis on scientific lines with available inexpensive techniques involving low cost comfortable housing, feeding and healthcare facilities. The same model can be replicated at *Gram Panchayat/Taluka* levels in the state/country. It will demonstrate the actual potential of stray cattle (a national resource) that can be harnessed in the form of income generation, genetic improvement of germ-plasm etc.



Symbolic Picture of Model *Gaushala*

### Protein and Fiber Enriched fish Biscuits

Department of Fish Processing Technology, College of Fisheries developed and validated the technology of supplementing fibre rich biscuits with Fish Protein Concentrate (FPC) extracted from carp fish (*Labeo rohita*) after deboning and solvent treatment process in collaboration with Department of Livestock Products Technology. The combination of FPC with two fibre sources were prepared using ‘Response Surface Methodology’ and mixed with other ingredients to develop protein and fibre rich biscuits with added health benefits.



The technology is recommended for adoption by the bakery industry and entrepreneurs to develop fish fortified biscuits, which are expected to have a huge market amongst health-conscious consumers in view of additional nutritional security and enhanced shelf life.

### Certificate and Short Courses in Fisheries



College of Fisheries

College of Fisheries introduced four certificate courses of six months duration, and two short courses of four weeks duration each to have skilled human resource for self-employment with enhanced professional competency for placement in public as well as private sector. These courses will be offered during the academic year 2021-22, as per details given in University Prospectus.

### Central Laboratory Facility

A central laboratory facility with high-end instrumentation is being established at College of Animal Biotechnology as a hub for all students/faculty to conduct their research. The laboratory will also cater to the ongoing research projects of different departments and colleges of the University.

## GADVASU COVID-19 Testing Laboratory adjudged as the Best Laboratory of the Country

The Indian Council of Medical Research (ICMR) along with UNICEF has selected the Viral Research and Diagnostic Laboratory (VRDL) of GADVASU for COVID-19 testing amongst 36 prominent best laboratories of India. The VRDL of GADVASU has been serving as an ICMR-accredited and dedicated Coronavirus Testing Laboratory since 1<sup>st</sup> August 2020, having completed testing of 3,40,000 samples upto 30<sup>th</sup> June 2021. The University is contributing its valuable resources, including expertise and manpower, to serve the community in difficult times of COVID-19 pandemic situation. The ICMR has provided the laboratory with additional high-performance instruments worth approximately Rs. One crore to further enhance its performance through automation. This is the only laboratory from Veterinary Sciences that has received this recognition.



## ISO 9001:2015 Certification for College of Animal Biotechnology



College of Animal Biotechnology

College of Animal Biotechnology has been recognized and awarded with ISO 9001: 2015 certification. The college, with state-of-the-art laboratories equipped with high-end apparatus has created a benchmark in establishing diagnostic services of international standards.

## Multi-Institutional Research Project

College of Animal Biotechnology bagged a multi-institutional research project of the Department of Biotechnology, Government of India, New Delhi on 'Modelling of indigenous diagnostics and immunopotent vaccine candidates to combat African swine fever (ASF) in India'. The project for Rs. 39.56 lakhs grant to GADVASU aims to characterize the circulating ASF virus in pigs and develop a point-of-care test to screen ASF in clinical samples for rapid and timely detection of the agent.

## Medicinal Plant Garden at Farmers Field

GADVASU initiated Medicinal Plant Gardening at Farmers Field under the Farmer FIRST Project entitled 'Integrated Approaches for Livestock Development: Farmer's Context' in Mehal Kalan (Barnala). The project has been sanctioned by the Agricultural Extension Division of ICAR, New Delhi.



Plantation of Saplings for Medicinal Plant Garden

The concept of cultivation of medicinal plant as an allied agricultural activity will boost herbal cure of ailments of humans as well as animals and can be taken up as a profitable proposition. Saplings of medicinal plants procured from AYUSH Center in GADVASU were provided to the beneficiary farmers.

## Herbal formulation by PGIMER is a Boon for Treating Animal Wounds

A new herbal antiseptic 'Sepil' developed by the Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh has showed miraculous results for wound healing of dogs at Veterinary Hospital of GADVASU, Ludhiana. With this herbal formulation debridement surgeries can be avoided as in human cases and pet owners' frequency of visit(s) to the University Hospital can be cut short in prevalent COVID-19 pandemic as they can apply Sepil at home and cut down on visits to the hospital for dressing, debridement etc.



### Pashu Palak Tele Advisory Kendra

GADVASU has established the **Pashu Palak Tele-Advisory Kendra** with National Bank for Agriculture and Rural Development (NABARD) funding. The Centre was inaugurated jointly by Dr. Inderjeet Singh, Vice-Chancellor of the University and Dr. Rajiv Siwach, Chief General Manager, NABARD, Chandigarh. Dr. Siwach highlighted the need of such projects in handling the uncertainties of livestock farming and assured of future collaborations of NABARD with GADVASU for such innovative and utilitarian projects for the farming community. Dr. Inderjeet Singh highlighted that telecommunication will establish a strong linkage between the farmers and the University providing impetus to livestock farming in information deficit areas. Linking the centre to a Mobile App will further increase its utility.



### Visits of the Vice-Chancellor

#### Review Meeting at College of Veterinary Science, Rampura Phul

Dr. Inderjeet Singh, Vice-Chancellor visited College of Veterinary Science, Rampura Phul and chaired the meeting with the team of Executive Engineer (Civil) PWD (B&R), Bhatinda and reviewed the ongoing construction work at college.



Dr. Inderjeet Singh inaugurating Creche facility

The Vice-Chancellor inaugurated the creche facility for the kids of the faculty and staff members at the college and interacted with children.

Dr. Singh also inaugurated the Drug store in the Hospital complex providing required medicines at concessional rates.

#### Visit to VP&RRTC, Kaljharani

The Vice-Chancellor visited Sahiwal Cattle Farm at Veterinary Polytechnic and Regional Research Training Centre (VP&RRTC), Kaljharani on 2<sup>nd</sup> June, 2021 and reviewed its activities and services of the institution. New areas brought under cultivation and purchase of elite Sahiwal cows were appreciated by the Vice-Chancellor.



Visit to VP&RRTC, Kaljharani

### GADVASU Organizes COVID-19 Vaccination Camp(s)

- Directorate of Clinics organized COVID-19 vaccination camp at Veterinary Hospital in association with Civil Surgeon Office, Ludhiana. A total of 405 individuals including clinicians, students and staff of the University got vaccinated in the camp.
- Centre for One Health organized COVID-19 vaccination camp on the occasion of the World Health Day. Around 100 faculty and non-teaching staff members aged above 45 years were vaccinated.



COVID-19 Vaccination Camp

Dr. Inderjeet Singh, Vice-Chancellor of the University appreciated the efforts of the Central and State Government for doing wonderful job for the health and safety of citizens against COVID-19 pandemic.

## Award(s)/Honour(s)

**Fellowship of National Academy of Veterinary Sciences (India)**

National Academy of Veterinary Sciences (India) announced selection Dr. Sarvpreet Singh Ghuman, Dean, College of Veterinary Science and Dr. N. S. Sharma, Professor, Department of Veterinary Microbiology as Fellow of the Academy for the year 2019-20 in recognition of their conspicuous service for the livestock development.



Dr. Jaspal Singh Hundal, Professor, Department of Animal Nutrition and Dr. Nittin Dev Singh, Associate Professor, Department of Veterinary Pathology bagged the Membership of NAVS.

**Fellowship of National Academy of Dairy Sciences, India (NADSI)**

Dr. Sarvpreet Singh Ghuman, Dean, College of Veterinary Science and Dr. Parkash Singh Brar, Director of Extension Education have been bestowed with the prestigious Fellowship of National Academy of Dairy Sciences (India) for their valuable contribution in the field of Veterinary Science.



Dr. Devendra Pathak, Senior Scientist, Department of Veterinary Anatomy; Dr. Jaswinder Singh, Associate Professor, Department of Animal Husbandry Extension and Dr. Harkirat Singh, Associate Professor, Department of Veterinary Parasitology bagged Associate Fellowship of National Academy of Dairy Sciences (India).

**Dr YPS Malik conferred with Fellow, Academy of Microbiological Sciences (AMSc)**

Dr Yashpal Singh Malik, Dean, College of Animal Biotechnology has been conferred with Fellow, Academy of Microbiological Sciences (AMSc) in recognition of his contribution in diverse areas of microbiology, which are of both fundamental and applied values.

**Prestigious Fulbright Fellowship for GADVASU Scientist**

Dr. Sidhartha Deshmukh, Scientist, Veterinary Pathology, GADVASU has been selected for prestigious Fulbright-Nehru Academic and Professional Excellence Fellowship (2021-22). Dr. Deshmukh will attend the University of Minnesota, United States for 9 months mandatory research and stay programme, where he will undertake work on vaccine development against reoviral arthritis in poultry.

**Fellow of Indian Association of Veterinary Public Health Specialists**

Dr. Jasbir Singh Bedi, Director, Centre for One Health bagged the Fellowship of Indian Association of Veterinary Public Health Specialists (IAVPHS) for his valuable contribution in the field of Veterinary Public Health and Epidemiology.

**Scientist brings laurels at International Level**

Dr. R.S. Sethi, Professor and Head, Department of Animal Biotechnology, College of Animal Biotechnology has been appointed as Adjunct Professor in Department of Veterinary Biomedical Sciences, Western College of Veterinary Medicine, University of Saskatchewan, Canada for four years.

**Surgeon(s) bag Young Scientist Award(s)**

- Dr. T.M. Rajasekaran, M.V.Sc. Scholar of Department of Veterinary Surgery and Radiology got the 'Young Scientist Award' for research paper on 'Surgical Management of Pigmentary Keratitis in Pugs' presented in the National level canine conference 'Indian VETexpo-2021'.
- Dr. Prem Sairam, Ph.D. scholar of Department of Veterinary Surgery and Radiology bagged 'Young Scientist Award' for research paper on 'Surgical Management of Humeral Condylar Fractures in Dogs' presented in the national level conference 'Indian VETopia-2021'.



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

### Week Long Celebrations of the World Veterinary Day, 2021

GADVASU celebrated the World Veterinary Day under the theme 'Veterinarian Response to the Covid-19' with week long activities.

- Institutional Development Plan (IDP) Cell organized events to orient students, farmers, stakeholders and general public about the efforts of veterinarians in combating COVID-19 crises. A series of radio talks in Punjabi language was arranged on key issues for easy understanding by farmers.
- Veterinary Hospital organized free antirabies and tick control camp for animal owners. The pet owners were educated regarding the importance of proper vaccination and deworming for keeping their pets safe and healthy from serious and life threatening diseases. Mineral mixture, calcium supplements, dewormers and other feed supplements were distributed free of cost to the dairy farmers. Pamphlets regarding precautions to be taken at home, dairy farms and veterinary hospitals to prevent the spread of COVID-19 were distributed.



Anti-rabies Vaccination and Brucellosis Testing Camp(s)

- College of Veterinary Science, Rampura Phul organized the programme entitled 'Veterinarian at Farmer's Doorstep' and facilitated interactive/personal consultancy, vaccination and treatment at Veterinary Hospital, Chauke, Rampura Phul, Bathinda.
- Centre for One Health organized a Brucellosis Testing Camp in collaboration with Directorate of Livestock Farms under the aegis of NAHEP.
- Centre for One Health organized a national webinar on 'Veterinarians' Response to COVID-19 Crisis'. A total of 120 participants attended the webinar.



- College of Veterinary Science, Rampura Phul organized national level events viz. elocution, essay writing and video films competition. The college also organized free anti-rabies vaccination and de-worming week and Animal Awareness Camp.
- Veterinary Polytechnic and Regional Research and Training Centre, Kaljharani organized free anti-rabies vaccination for pets. Free samples of Dewormers were also distributed amongst the pet owners.

Dr. Inderjeet Singh, Vice-Chancellor complemented the efforts of the scientists for meticulously organizing the World Veterinary Week in a capsulated manner while observing government's guidelines regarding COVID-19 pandemic. Dr. Singh specifically mentioned the key role played by GADVASU in COVID-19 diagnosis at Viral Research and Diagnostic Laboratory of the University.

### International e-Conference on Emerging Challenges to Veterinary Profession

Dr. Inderjeet Singh, Vice-Chancellor addressed the inaugural session sharing his words of wisdom in international virtual conference on ‘**Emerging Challenges to Veterinary Profession (IVACON-2021)**’ organized by College of Animal Biotechnology, GADVASU in association with the Indian Veterinary Association (IVA) and Confederation of Indian Industries (CII). Nearly 2000 participants from India and 26 other countries participated in the mega event.



E-Conference on Emerging Challenges to Veterinary Profession

The discussions during the technical sessions of the conference focused on ‘Animal Health and Production diseases’, ‘Antimicrobial resistance an alternatives’ and ‘Animal Production, Productivity enhancement Processing, and Marketing’.

### Celebration(s) of World Environment Day

- College of Veterinary Science, Rampura Phul, organized a national level online Quiz Competition. A total of 237 undergraduate students representing 20 veterinary colleges across the country participated in the event. The meritorious students were awarded with e-certificate. A tree plantation drive was also organized on this occasion.



Plantation Drive

- College of Fisheries organized ‘Plantation Drive’ on the occasion of the World Environment Day to commemorate environment’s unconditional services to the mankind. The drive themed as ‘**Ecosystem Restoration**’ was inaugurated by Dr. Inderjeet Singh, Vice-Chancellor, GADVASU with a message to protect the environment for maintaining its ecological balance to serve the future generations. He urged to enlighten the energetic youth with such events to provide a healing touch to the mother earth for a secure future. Officers of the University participated in the event by planting a tree each to promote healthy environment for healthy living.



Activities of ‘Ecosystem Restoration’

- National Service Scheme (NSS) volunteers of College of Fisheries virtually celebrated the ‘World Environment Day’ through ‘Plantation Drive’ at respective places.



Activities of Students during the World Environment Day

### Celebration(s) of the 'World Milk Day'

- College of Dairy Science and Technology celebrated the World Milk Day under the theme 'Sustainability in Dairy Sector - Environment, Nutrition and Socio-Economics'. Dr. Inderjeet Singh, Vice-Chancellor graced the occasion as the Chief Guest of the function and Dr. Harmanjit Singh Banga, Registrar as the Guest of Honour.



Release of Video Films by the Vice-Chancellor

Dr. Inderjeet Singh highlighted the importance of the World Milk Day and relevance of milk in our daily life. He applauded the initiative taken by the college for creating awareness amongst consumers about the quality and nutritive value of milk. The Vice-Chancellor released 10 video films developed by faculty on different topics of milk and a new dairy product, 'Blueberry Yoghurt' having low fat and high protein.

- A special edition of 'Vigyanak Pashu Palan' magazine of the University dedicated to dairy sector was published by Directorate of Extension Education.



- College of Dairy Science and Technology organized 'Milk Adulteration Testing Camp' and tested nearly 100 milk samples free of cost for presence of any adulterant using the kits developed by GADVASU Scientists.



Milk Testing Camp

- College of Veterinary Science, Rampura Phul celebrated the World Milk Day by organizing an awareness camp on 'Hygienic and Wholesome Milk Production' for progressive dairy farmers. The participants were sensitized about hygienic milk production protocol and associated socio-economic benefits.



Participants of the training programme

### World Microbiome Day 2021

Department of Veterinary Microbiology in collaboration with IDP Cell of the University under NAHEP celebrated 'World Microbiome Day 2021'.

Dr. Neelam Taneja, Professor, PGIMER, Chandigarh delivered a lecture on 'Gut Microbiota and its role in health and disease'. An e-poster contest was also organized under the theme 'Role of Microbiome in health and sustainability'. The winner were awarded with prizes.



### Scientists advocate the 'One Health' Approach at International Symposium

Centre for One Health, GADVASU organized the international e-Symposium on 'One Health Concept: Opportunities and Perspectives in Present Scenario' and XVII Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS). A total of 341 participants attended the mega event. GADVASU students and faculty bagged many prestigious awards viz. young scientist, best oral and poster presentations, best M.V.Sc and Ph.D thesis and Prof. Mahendra Pal Zoonses award(s).



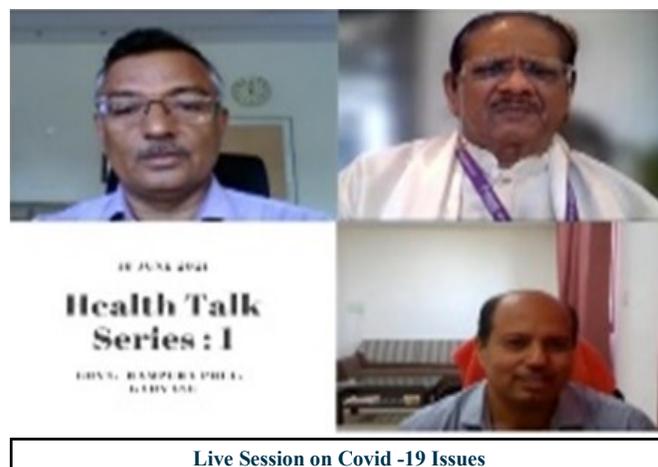
Dr. Inderjeet Singh, Vice-Chancellor, GADVASU; Dr. B.N. Tripathi, Deputy Director General (Animal Science), Indian Council of Agricultural Research; Dr. Manju Rahi, Deputy Director General, Indian Council of Medical Research; Dr. Praveen Malik, Animal Husbandry Commissioner, Government of India; Dr. Baljit Singh, Vice-president Research, University of Saskatchewan, Canada; Dr. Subeer Majumdar, Director, National Institute of Animal Biotechnology, Hyderabad and Dr. Ashok Kumar, Assistant Director General (AS), ICAR graced the inaugural session.

### Advisory on proper management of livestock

The University expert(s) issued advisory to farmers regarding adequate housing management, water availability, alterations in timings of feeding and feed formulation to lower the effects of thermal stress during summer season. The farmers were advised to have well ventilated sheds, plantation of shady trees to further cool the premises, adequate density management of animals, facility of fans, coolers and foggers etc.

### Talk Series on Covid -19 Issues

College of Veterinary Science, Rampura Phul organized Health Talk Series under the theme 'Exploring and Understanding the COVID 19 Pandemic' to apprise society about various facts and facets regarding the impact of pandemic on society with special emphasis on expectant, lactating women and children.



Dr. Chandrakant S Pandav, Padamshree Awardee was the key speaker. Dr. Inderjeet Singh, Vice-Chancellor inaugurated the series and emphasized on the role played by Veterinarians in diagnosis and vaccine development. He stressed on the 'One Health' concept and emphasized on creating harmony amongst the health of animal, plants, human beings and environment.

### e-Training for Skill Development

College of Animal Biotechnology and Project Monitoring Unit of the Department of Biotechnology, GADVASU organized e-training on 'Skill Development on Advanced Bioinformatics in Genome Analysis of Livestock and Pets' for faculty, scientists, researchers, and postgraduate students, sponsored under the Department of Biotechnology-funded project on 'Parentage Determination and Cytogenetic Profiling in Dogs'. A total of 263 trainees participated in the training programme taking in its ambit hands-on practice on programming languages (R, Python, Perl), advanced bioinformatics tools, and pipelines for big-data analysis.



### Release of Awareness Guide on Antimicrobial Resistance

Dr. Inderjeet Singh, Vice-Chancellor, GADVASU along with officers of the University released an 'Awareness Guide on Antimicrobial Resistance' under the aegis of ICAR Niche Area of Excellence project on Antibiotic Resistance: Animal-Human Interface. Dr. Singh emphasized that the guide will be a much-needed learning resource for field veterinarians and students and sensitize them to the rising scourge of antimicrobial resistance.



Awareness Guide on Antimicrobial Resistance

Dr. H.S. Banga, Registrar and Dr. J.P.S. Gill, Director of Research applauded the team work of the University expert(s) and highlighted that the awareness guide will be a useful tool to strengthen the knowledge of field veterinarians to curtail the problem of AMR.

### ICAR Capacity building Workshop on Antibiotic Susceptibility Testing

Department of Veterinary Microbiology and Centre for One Health organized National level online workshop for academicians, research scholars and veterinary officers for capacity building on 'Antibiotic Susceptibility Testing' under the ICAR Niche Area of Excellence on 'Antibiotic Resistance: Animal-Human Interface'.

### Guest lecture on Communication Skills for Entrepreneurship Development

College of Fisheries organized a guest lecture on 'Communication Skills for Entrepreneurship Development' for students to inculcate in them the skills of communications to start-up an enterprise as well as enhance their professional competency.

### Training on Animal welfare and equine behaviour

GADVASU organized online Training Programme on 'Animal Welfare and Equine Behaviour' for developing understanding on Animal welfare, equine behaviour and compassionate handling amongst veterinary students under Institutional Development Plan (IDP) of NAHEP in coordination with Brooke Hospital for Animals (India). A total of 263 stakeholders participated in the programme. The technical lectures encompassed the topics of Animal Welfare and its frameworks; natural behaviour of equine; equine communication; welfare assessment; welfare issues of working equines; and compassionate handling.

### National Webinar(s) on COVID-19 Crises

- Institutional Development Plan (IDP) Cell of GADVASU organized a national webinar on 'Role of Animals in the origin and transmission of SARS-COV-2'. A total of 172 participants actively took part in the webinar and got benefitted. The expert(s) emphasized on productive responses of veterinarians in the wake of COVID-19 crisis.
- IDP Cell also organized a national webinar under the theme 'Importance of hunting coronavirus carrier Animals'. Expert(s) highlighted the role of animals in the origin and transmission of SARS-COV-2. A total of 161 participants attended the webinar.

### Participation in conferences

- Dr Paviter Kaur delivered Keynote speech on 'COVID19: Vaccines and Immunity' on 'World Immunology Day' celebrated at Khalsa College of Veterinary and Animal Sciences, Amritsar on 29 April 2021.
- Dr. R. S. Sethi, Professor and Head, Department of Animal Biotechnology, College of Animal Biotechnology delivered an invited talk during the World Organisation for Animal Health (OIE) Virtual Workshop for Veterinary Education Establishments (VEEs) in India on 9 June 2021.
- Dr. Prabjeet Singh attended online workshop on 'GIS & Remote Sensing and its Applications' from 7-11 June 2021 organized by Punjab Remote Sensing Centre, Ludhiana.

### Radio & TV Talks

- Dr. Meera D. Ansal, Dean, College of Fisheries delivered a TV talk on DD Jalandhar on the topic '**Fish Care during the Summer Season**' on April 15, 2021.
- Dr. Jasbir Singh Bedi, Director, Centre for One Health delivered a TV talk on '**Buffalo Farming in Punjab**' at DD Punjabi on April 26, 2021.
- Dr. Vaneet Inder Kaur, Principal Scientist (Fisheries) delivered Radio talk for AIR Jalandhar on '**Care of Fish Ponds during Summer Season**' on May 4, 2021.
- Dr. Grishma Tewari, Scientist (Fisheries) delivered an online Radio talk on the topic '**Tips for Management of Fish Farming in Summer Season**' for Patiala radio on May 17, 2021.

### Placement(s)

Mr. Anuj Lal, a graduate from College of Fisheries (COF) got selected as 'Assistant Manager'- Grade 'A' in IDBI bank through an online campus placement drive held by IDBI and COF, GADVASU.



### Alumnus of COABT Joins Foreign Universities/ Institutes for Higher Studies

- Ms. Geetika joined the Department of Ophthalmology, Visual and Anatomical Sciences, School of Medicine, Detroit, Michigan, United States as post-doctoral fellow.
- Mr. Prince Pal Singh joined Ph.D. in Vaccinology and Immunotherapeutics at Vaccine and Infectious Disease Organization, University of Saskatchewan, Saskatoon, Canada.
- Cammey got selected to pursue her integrated doctorate program at Northeastern University, Toronto, Canada in regulatory affairs.



### Students selected for Internship at IIT, Ropar

Ankit Bhagat, Samridhi, Satnam and Yadhavi, students of B.Tech. (Biotechnology) joined the Indian Institute of Technology, Ropar for eight weeks internship programme.

## Activities of Krishi Vigyan Kendras

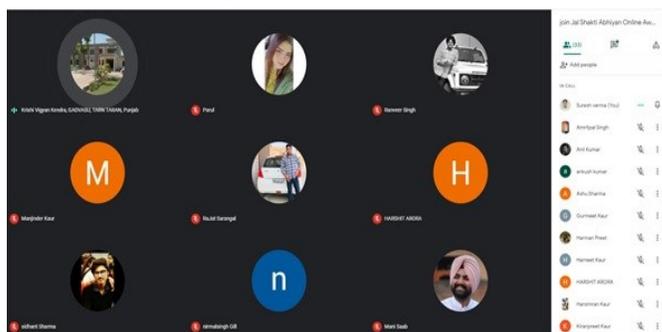
### Workshop on 'Dairy farmers vis-a-vis FPO formation for better income'



Expert(s) Interacting with Dairy Farmers

Krishi Vigyan Kendra, Booh (Tarn Taran) organized workshop under the theme '**Dairy farmers vis-a-vis FPO formation for better income**'. A total of 35 farmers attended the programme and got benefitted. Expert(s) informed the participants about importance and various steps involved in formulation of FPOs, discussed the role of NABARD in FPOs formation and enlightened the participants about the importance of POPI (Producer organization promoting institutions).

### Awareness Programme on 'Efficient Water Management for Livestock'



Live Session on 'Efficient Water Management for Livestock'

KVK, Booh (Tarn Taran) organized Online Awareness Programme on '**Efficient Water Management for Livestock**' under Jal Shakti Abhiyan. A total of 35 dairy farmers participated in the programme. Expert(s) apprised the participants about importance of water and its judicious use in the livestock, efficient utilization of water technologies for the production of forage crops and climate resilient approaches for sustainable livestock production, drinking behaviour of dairy animals, etc.

### Skill Development Training on Soil and Water Testing Lab Analyst

KVK, Booh (Tarn Taran) organized a skill development training on 'Soil and Water Testing Lab Analyst', sponsored by Agriculture Skill Council of India and Indian Council of Agriculture Research. A total of 25 students took part in training and obtained technical knowledge and practical skills on various aspects of soil and water testing for self-entrepreneurship. The training took in its ambit the estimation of soil physical properties, soil chemical properties and water quality parameters in irrigation water.



Participants and KVK fraternity with Dr. Inderjeet Singh, Vice-Chancellor

Dr. Inderjeet Singh, Vice-Chancellor, GADVASU interacted with trainees and inspired the students to emerge as an entrepreneur and establish their own ventures. He motivated them for plant clinical based services.

### Awareness programme 'Animal Health and Productivity'

KVK, Booh (Tarn Taran) organized an awareness programme on 'Animal Health and Productivity' at Joti Shahin (Tarn Taran) under theme INDIA @ 75 'Bharat Ka Amrut Mahotsav'. Expert(s) sensitized the participants about importance of balanced ration in dairy animals, feed and fodder management, reproductive management, importance of mineral mixture, uromin licks and by pass fat in dairy animals, different types of diseases of dairy animals and their possible treatment.

### Programme on Balanced Use of Fertilizers

KVK, Booh (Tarn Taran) organized an online programme on balanced use of fertilizers by adoption of scientific techniques for soil health improvement.

### e-Gosthi on 'Importance of Milk'

KVK, S.A.S. Nagar (Mohali) organized e-gosthi on 'Importance of Milk' in daily life as part of festivities of World Milk Day. The participants were imparted scientific knowledge on testing of milk, control of mastitis in dairy animals, milk quality check on the basis of Somatic Cells Count, nutritional importance of milk, its value addition and preparation of milk products.

### Vocational Training on Scientific Fish Farming

KVK, S.A.S. Nagar (Mohali) organized a vocational training on Scientific Fish Farming at village Tira. Expert(s) informed participants about the potential of fish farming as an enterprise in Punjab state. The participants were also imparted knowledge on zero waste technology for fish processing developed by GADVASU. An exposure visit of trainees was organized to the fish farm at village Harnampur, for hands on training.

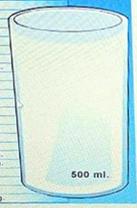


Training on Scientific Fish Farming

### Webinar on 'Nutritional Strategies to produce Quality Milk in Dairy Animals'

KVK, S.A.S. Nagar (Mohali) organized a webinar on importance of feed to produce quality milk in dairy animals. A total of 61 dairy farmers and cattle feed millers participated in the webinar and got benefited. Expert(s) imparted technical knowledge about influence of quality of feed ingredients on the quality of milk and animal health and advised farmers on milk quality check on the basis of Somatic Cells Count (SCC) which reflects the udder health of the animals and mastitis condition.

ALL THESE OCCUR NATURALLY IN MILK	
FAT	15.5gm.
PROTEIN	16gm.
CARBOHYDRATE	25gm.
POTASSIUM	681mg.
CALCIUM	695mg.
VITAMIN A	105µg.
ZINC	2.3mg.
VITAMIN B-6	0.55mg.
PARYOTERIC ACID	1.5mg.
B BIOTIN	11.7µg.
SELENIUM	6mg.
IODINE	88mg.
MAGNESIUM	6.5mg.
VITAMIN B-12	2.3µg.
NIACIN	5.1mg.
RIBOFLAVIN	1.1mg.
THIAMIN	0.2mg.
CHLORIDE	697mg.
SODIUM	32.5mg.
IRON	0.3µg.
FOLIC ACID	25µg.
VITAMIN C	4mg.
PHOSPHORUS	558mg.

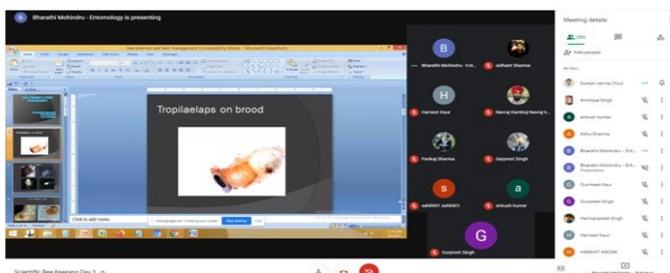


### Virtual workshop on Recirculatory Aquaculture System (RAS)

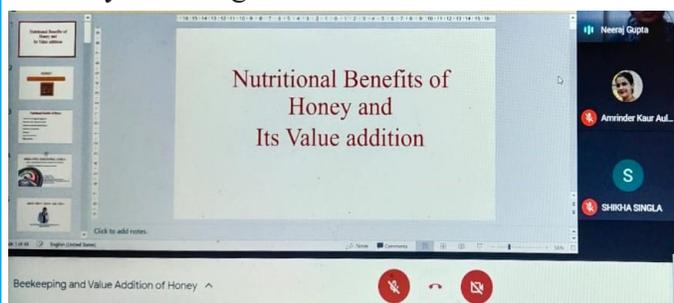
KVK, S.A.S. Nagar (Mohali) organized a virtual workshop to create awareness regarding a new intensive aquaculture technology viz. Recirculatory Aquaculture System (RAS). A total of 36 farmers participated in the programme. Expert(s) delivered talk on 'Basic Components and Design of RAS' and advocated the adoption of this technology to enhance the farm income manifolds. The participants were also provided information about the Pradhan Mantri Matsya Sampada Yojna (PMMSY) of Government of India.

### World Bee Day

- KVK, Booh (Tarn Taran) organized an online programme under the theme '**Augmenting Rural Income: The Beekeeping Way**' as part of 'Bharat Ka Amrut Mahotsav. Expert(s) informed the participants regarding importance of beekeeping and emphasized on setting up of beekeeping as subsidiary business apart from rearing of livestock.



- KVK, Booh (Tarn Taran) organized online/vocational training programmes on 'Scientific Bee Keeping' under Mini Mission-1 sponsored by National Bee Keeping and Honey Mission (NBHM) and National Bee Board (NBB).
- KVK, Sahibjada Ajit Singh Nagar (Mohali) organized virtual training programme for beekeepers to create awareness regarding role of honeybees in agriculture.



### Awareness Programmes on Direct Seeded Rice (DSR) Cultivation

- KVK, Booh (Tarn Taran) organised awareness programmes on Direct Seeded Rice (DSR) in village Dargapur. The expert(s) discussed about the production technology and management of DSR, nutrient, weed and water management in DSR.
- KVK, S.A.S. Nagar (Mohali) organized a meeting with farmers to create awareness about unpuddled Direct Seeded Rice (DSR) at village Shahpur.
- KVK, S.A.S. Nagar (Mohali) conducted a training programme on DSR at village Lakhnor. Expert(s) informed the participants that DSR is the only viable option for rice farmers to reduce the unproductive water flow. To motivate the farmers to adopt DSR, rice seed (PR 126) and weedicides (Pendimethalin & Bispyribac) were distributed to farmers.



DSR Awareness Activities

### Demonstration fish pond at RRTC, Talwara

A Demonstration fish pond of size 25x20 meters with a depth of 7.5 ft. has been made functional at Regional Research and Training Centre, Talwara.



Demonstrative Fish Pond