



**Progress Report**  
**(September, 2019 to March, 2020)**  
**for**  
**Institutional Development Plan for**  
**Improved Learning Outcome, Skill**  
**and Entrepreneurship at Guru**  
**Angad Dev Veterinary and Animal**  
**Sciences University (GADVASU)**  
**Ludhiana**

**Submitted to PIU – NAHEP,**  
**ICAR**

**May, 2020**

**Project Title: Institutional Development Plan for Improved Learning Outcome, Skill and Entrepreneurship at Guru Angad Dev Veterinary and Animal Sciences University (GADVASU) Ludhiana**

**Project profile:**

- a. Component: 1a
- b. Sub-project title: Institutional Development Plan

**Project Objectives:**

Objective 1: Strengthening academic programmes for producing industry and market-ready professionals and improving learning outcomes.

Objective 2. Harnessing on faculty and student development programmes for enhancing competence and diversity.

Objective 3. To develop innovative and sustainable revenue generation models.

**Achievements of Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana**

The major achievements/activities included (a) Strengthening of teaching infrastructure, (b) Training and capacity building of students through organization of seminars, interactive sessions and workshops, brain storming sessions, (c) Strengthening Alumni network through Alumni meets, (d) Making school students aware about avenues in agricultural sciences through Agri-education fair and (e) Improving of campus social amenities and student wellbeing.

**(a) Strengthening of Teaching infrastructure:** Strengthening and modernization of class room facilities was done by installation of Smart class room units in 13 different classrooms of constituent colleges of GADVASU. It included interactive panels and LCD projectors with digital podium.

**(b) Training and Capacity Building:** Hands on Training Programme: For improvement in the skills of the students in small ruminant production health and management, a hands-on-training programme with Dr Paula Menzies, Professor Emeritus, University of Guelph, Canada as resource person was conducted on 20-21<sup>st</sup> Nov, 2019.

- **Seminars, webinars and workshops:** Key thematic areas of workshops organized under IDP were Agri entrepreneurship, communications skills for entrepreneurship, Entrepreneurship Development in Fisheries, Project Evaluation Techniques for Dairy

Entrepreneurs, Entrepreneurial Awareness for Dairy Engineers etc (details are given in table).

- **Industry Interactions:** Industry Academic Interface sessions on Entrepreneurship Development were organized and students along with faculty members interacted with industrialists and entrepreneurs on Nov 25, 2019 and February 5<sup>th</sup>, 2020.

(c) Strengthening Alumni network through Alumni meets

Two Alumni meets of students of College of Veterinary Science were organized. Online registration of alumni of the college was started through a link given on University Website. WhatsApp group of Alumni, involving at least one veterinarian from each pass out batch was made wherein professional knowledge is being regularly exchanged.

(d) Agricultural Education fair: On the directions of Indian Council of Agricultural Research, an Agricultural Education Fair was organized for making students from various schools aware about avenues in Agricultural sciences.

(e) Improving of campus social amenities and student wellbeing:

- Eight Sanitary Napkin vending machines with incinerator have been installed at strategic points in Girl hostels and colleges to ensure personal hygiene.
- For Differently abled students (*Divyangs*), six wheel chairs have been placed in colleges and hostels.

### **Monitoring and Evaluation**

All the activities carried out under IDP are monitored by concerned authority on frequent basis. Outcomes are evaluated regularly and further improvements are suggested on the basis of feedback received from beneficiaries. Project monitoring and Evaluation cell (PME) provides regular inputs for further improvement in the activities to be undertaken and progress is kept in tandem with set approved objectives and indicators.

### **Progress of IDP project made during 2019-20**

- Seven Senior Research fellows, three office assistants and nine field coordinators were recruited as per ICAR Norms and sanction letter received for project.

- Purchase of all goods and equipment approved and committed for the financial year 2019-20 has been completed. It includes:
  - ✓ Office equipment (15 Printers and 5 scanners),
  - ✓ Smart class room units (13)
  - ✓ Wheel chairs (6)
  - ✓ Desktops (50) and laptops (10)
  - ✓ Furniture: Computer tables & chairs (20 each), Office tables (10) & chairs (50)
  - ✓ Small Animal Incinerators (2)
  - ✓ Sanitary napkins vending machines with incinerator (8)

*\*Number of items purchased is given in parentheses.*

- Efforts have been made to enter into MoU with various foreign universities for possible students and faculty trainings.
- The list of various seminars, workshops and interactive sessions conducted by different colleges of GADVASU during 2019-20 is presented as under:

S.No.	Activity	Date	Resource Person	No. of participants
1	Workshop on “Improving Small Ruminant Health and Management for Increasing Learning Outcomes amongst Young Vets”	20 <sup>th</sup> -21 <sup>st</sup> November, 2019	Dr Paula Menzies, Emeritus Professor, Ontario Veterinary College, Canada	50
2	Academia-Students-Farmer Interface on “Goat Husbandry practices for doubling the farmers’ income”	22 <sup>nd</sup> November 2019	Experts from different areas related with health, management, value addition and marketing of	50 farmers/small entrepreneurs from Punjab and adjoining states along with 15

			finished products	undergraduate (B.V. Sc. & A. H.) students
3	Launch workshop of NAHEP-Institutional Development Plan (IDP) for GADVASU	28 <sup>th</sup> November 2019	Dr R C Agrawal, DDG Education and National Director-NAHEP was the Chief Guest	>200
4	Alumni meet of College of Veterinary Science, GADVASU	29 <sup>th</sup> December 2019	Dr H P S Kochhar, Associate Deputy Minister of Health Canada (Alumni of the college along with other senior alumni)	More than 350 veterinarians including experts from abroad
5	Interactive session on AGRI-Entrepreneurship	22 <sup>nd</sup> January 2020	Dr Gurbir Singh and Dr Opinder Singh	50
6	Interactive session on Communication Skills for Entrepreneurship	29 <sup>th</sup> January 2020	Dr Harpreet Singh	60
7	Industry Academic Interface session on Entrepreneurship Development	5 <sup>th</sup> February,2020	Shri Vijay Garg, M.D, Shiva Poultry Equipment, Barnala and Dr Navjosh Singla, Alumni of College of Veterinary	30

			Science	
8	Agri-Education fair	10 <sup>th</sup> February, 2020	Dr Parkash Singh Brar, Dr Opinder Singh and Dr Nitin Mehta	More than 80 students of Partap public school and GGN Public school, Ludhiana.
9	Interactive session on Entrepreneurship Development in Fisheries: Opportunities in Shrimp Farming	19 <sup>th</sup> February, 2020	Dr Prabhjeet Singh	47
10	Teaching workshop	19 <sup>th</sup> to 21 <sup>st</sup> February, 2020	Dr Baljit Singh Gill, Dean, Faculty of Veterinary Medicine, University of Calgary, Canada and Dr Amy Warren, Associate Dean, University of Calgary, Canada	25 teachers of GADVASU
11	Alumni Meet 2020	25 <sup>th</sup> February, 2020		1973 Admission batch alumni of college of Veterinary Science
12	Interactive session on Entrepreneurship: Scope and Journey and Role of	25 <sup>th</sup> February, 2020	Dr. S. K. Tiwari and Dr Rajinder Singh Kishtwaria,	>80

	Veterinary Services in promoting wild life and environment		alumni of 1973 batch	
13	Interactive session on Fish Diseases: A Major Challenge for Entrepreneurs in Case of Fisheries	4 <sup>th</sup> March, 2020	Dr. Anuj Tyagi	>40
14	Interactive session on Project Evaluation Techniques for Dairy Entrepreneurs	12 <sup>th</sup> March 2020	Dr Varinder Pal Singh	58
15	Interactive session on Entrepreneurial Awareness for Dairy Engineers	13 <sup>th</sup> March 2020	Dr Amandeep Sharma	42

### Plan ahead for 2020-21

- Skill Development for students
  - ✓ Student Entrepreneurship trainings
  - ✓ Student's skill Development Programmes
  - ✓ Remedial courses for weaker section students
  - ✓ Certificate courses
  - ✓ Student short duration Internship
  - ✓ Student orientation courses
  - ✓ Artificial intelligence training of students
- Students' exposure visits and trainings
  - ✓ Students will be sent to various international universities and institutes of repute for academic exposure.
  - ✓ Exposure visit of students to Industries and plants
- Faculty upgradation

- ✓ International level training for faculty to enhance efficiency and competence
- Visiting Professorship/Adjunct faculty/Guest faculty
- E-books and Journals purchase for University library
- Linkages with industries
  - ✓ Industry experts/faculty for workshops and lectures
  - ✓ Industry-Academia interface
  - ✓ MoUs and technology transfers
- Purchase, commissioning/installation of items under goods and equipment section as per sanction order.
- Minor civil work and renovation of existing facilities.



## 1. Output-Outcome Monitoring

S.No.	Particulars	April'19 to March'20		
		Plan	Achievement	Remarks (Action plan for areas where improvement is needed)
1.	Number of new facilitative units established to enable academic and research infrastructure (IIC- Industry Institution Interaction Cell / Start up cell / incubation cell / experiential learning unit / placement cell etc.)	03	03 (100% achieved)	<ul style="list-style-type: none"> <li>Smart classrooms units have been installed and made operative</li> </ul>
2.	Number of pilot courses added / upgraded on communication skills, entrepreneurial skills, information processing, creative and innovative thinking, leadership skills, industry-oriented courses etc.	01	01 (100% achieved)	<ul style="list-style-type: none"> <li>“Advanced Clinical Training Course” to improve clinical skills of veterinarians for their settlement in private sector in India and Abroad</li> </ul>
3.	Additional revenue generated through institutional activities with industries in INR lakhs	0	0	--
4.	Revenue generated through public usage of infrastructure for academic activities in INR lakhs	0	0	--
5.	Number of MoUs signed with industry for knowledge exchange programs/ internships /	01	03 (300% achieved)	<ul style="list-style-type: none"> <li>Department of Animal Nutrition, COVS, GADVASU entered into MoU with BASF,</li> </ul>

	short term training programs etc.			<p>Mumbai for studies on effect of feeding organic trace minerals on production, reproduction, immune response and metabolic profiles in dairy cows.</p> <ul style="list-style-type: none"> <li>• COVS, GADVASU, entered in MoU with Prime milk Special ltd. (PMSL), Latala Sangrur, for Basic and applied research in buffaloes.</li> <li>• School of Public Health and Zoonoses, GADVASU entered in MoU with Epipointe, Tamil Nadu, for research trials.</li> </ul>
6.	Improved AU revenue generation (% change in internal revenue of AU)	0	6.59%	<ul style="list-style-type: none"> <li>• As per the approved DPR and sanction, for 2019-20, improved AU revenue generation is nil but the center has achieved an increase % of 6.59.</li> </ul>
7.	No. of International trainings undertaken by faculties under IDP comp	0	0	NA
8.	Number of national trainings undertaken by faculties under IDP comp	0	0	NA
9.	No. of International trainings undertaken by students under IDP comp	0	0	NA

<b>10.</b>	Number of national trainings undertaken by students under IDP comp	0	0	NA
<b>11.</b>	No. of direct beneficiaries of the project	700	660	<ul style="list-style-type: none"> <li>94.3% of the plan/target was achieved, however, during period of lockdown, some of activities were stalled and hence, the number of direct beneficiaries decreased.</li> </ul>
<b>12.</b>	No. of female beneficiaries out of total direct beneficiaries	-	296 (44.84%)	--

## 2. Input and Activity Monitoring

Input/Activity Indicator	Sub Head/category	Expenditure/ input in INR lakhs		Justification
		Planned	Utilized	
<b>Goods and Equipments</b>	Equipment, Plant & Machinery	Nil	Nil	
	Office equipment	2.40	2.225	Laser printer duplex (5), Laser printer (5), Ink-tank system printer (5) & Document scanners (5): To facilitate office works and examination related works in the institute and to develop the office infrastructure of IDP cell
	Laboratory equipment	95.55	92.72632	1. Smart Classrooms (13): Development of smart classrooms for

				strengthening academic programmes for improved learning outcome 2. Small Animal Incinerators (2): Safe disposal of waste materials 3. Wheel-chairs (6): For assisting <i>Divyang</i> and old persons 4. Sanitary napkins vending machines with incinerator (8): For promoting personal hygiene
	Furniture & fixtures	8.80	8.7995	1. Computer table (20) & Computer Revolving chair (20): Computer-lab for student learning 2. Office Tables (10) & Office chairs (50): For routine office-work of IDP-cell
	Computers and Peripherals	45.00	42.775	Desktop (50) & Laptop (10): To strengthen the state of art computer lab and IDP cell
	Books and Journals	Nil	Nil	
<b>Civil works</b>	Minor repair and renovation work	Nil	Nil	
<b>Human capacity building</b>	National level training	Nil	Nil	
	International level training	Nil	Nil	
	Short visit/ seminars	3.00	0.0	Visit was planned for March 2020, but was not undertaken due to COVID-19
	Meetings and workshops	6.00	4.35613	Alumni Meet & Meetings related to

				IDP
<b>Consultancy</b>	National level consultancies	Nil	Nil	
<b>Recurrent cost / Miscellaneous</b>	Travel	1.00	0.99987	To meet IDP related travel expenses
	Contractual services	19.92	17.18322	Salary of Contractual Staff under IDP
	Operational costs	4.00	4.00	For Contingency (Stationary, Consumables, Advertisement, Printing, Documentation, Hospitality, Vehicle hiring)
	Institutional charges	1.24	1.24	For partial payment of university bills
<b>Total</b>		<b>186.91</b>	<b>174.30504</b>	

### 3. Case studies/ success stories

#### Major category: Media coverage of project activities and achievements

##### a. Print/Press release

- College of Veterinary Science conducted a workshop on “Improving Small Ruminant Health and Management for Increasing Learning Outcomes amongst Young Vets” for UG students from November 20<sup>th</sup> -21<sup>st</sup>, 2019. Dr Paula Menzies, Emeritus Professor, Ontario Veterinary College, Canada shared her experiences of Goat farming for entrepreneurship development and employment generation with students. Many lectures and hands on training sessions were conducted for students pertaining to establishment and efficient running of goat farm as an enterprise. Economics and returns on investment was discussed at length. Total 50 students participated enthusiastically and responded

#### CAMPUS NOTES

### Agri higher education workshop at GADVASU

College of Veterinary Science, Guru Angad Dev Veterinary and Animal Sciences University organised two-day workshop on “Improving small ruminant health and management for increasing learning outcomes amongst young vets”. The workshop was conducted under the Institutional Development Plan-National Agriculture Higher Education Programme (IDP-NAHEP) programme. Dr Parkash Singh Brar, Dean-cum-Principal Investigator of IDP project informed that a total of 50 BVSc & AH students participated in this programme. He further added that IDP project is a World Bank project awarded by ICAR under National Agriculture Higher Education Programme. In this pro-



gramme, university will organise various workshops/practical training programmes/visits to industries and other national and international institutes to improve the competency and skill of undergraduate students. For this workshop, Dr

Paula Menzies, Professor Emeritus, Ontario Veterinary College, University of Guelph, Canada, was special invitee and key speaker. Theory and practical hands-on-training sessions were conducted related to improvement of management, production and health

in sheep and goat. Dr Paula Menzies delivered talk on Biosecurity at goat farm, neonatal health care management and important bacterial and viral diseases of goats. The practicals were conducted on housing, nutrition and reproductive management, selection and judging of goats, artificial insemination, pregnancy diagnosis using ultrasound, tuberculin & Brucella testing etc. Dr Rajesh Kasrija, Extension specialist deliberated on goat farming for entrepreneurship development. Dr P Singh, Economist delivered lecture on economics of commercial goat farm. Dr Manish Chhatli, delivered lecture on value addition of goat milk and meat for employment generation.

### Agri-experts dwell on ruminant health, mgmt

#### TRIBUNE NEWS SERVICE

LUDHIANA, NOVEMBER 21  
College of Veterinary Science, Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), organised a two-day workshop on “Improving small ruminant health and management for increasing learning outcomes amongst young vets” under the aegis of the Institutional Development Plan, a National Agriculture Higher Education Programme (IDP-NAHEP) programme. A total of 50 BVSc&AH stu-



Students of GADVASU on the concluding day of a ruminant health and management workshop in Ludhiana on Thursday. (TNS photo)

dents participated in this programme. Parkash Singh Brar, dean-cum-principal investigator of IDP project, said the IDP project was a World Bank project awarded by the ICAR

under National Agriculture Higher Education Programme. In this programme, university would organise various workshops/practical training programmes/visits to

industries and other national and international institutes to improve the competency and skill of undergraduate students, he added.

For this workshop, Paula Menzies, Professor Emeritus, Ontario Veterinary College, University of Guelph, Canada, was the special invitee and key speaker. Manish Kumar Chhatli, organising secretary, Rajesh Kasrija and Nitin Mehta, joint organising secretaries of this workshop, said theory and hands-on-training sessions, related to improvement of manage-

ment, production and health in sheep and goat, were conducted during the workshop. Menzies delivered a talk on bio-security at goat farm, neonatal health care management and important bacterial and viral diseases of goats. Rajesh Kasrija, extension specialist, deliberated on goat farming for entrepreneurship development. Economist VP Singh delivered a lecture on economics of commercial goat farm. Manish Chhatli delivered a lecture on value addition of goat milk and meat for employment generation.

- Guru Angad Dev Veterinary and Animal Sciences University conducted **Launch workshop of NAHEP-Institutional Development Plan (IDP) for GADVASU** on 28<sup>th</sup> November 2019. Dr R C Agrawal, DDG Education and National Director-NAHEP was the Chief Guest for the event. Dr Amarjit Singh Nanda, Vice- Chancellor, GADVASU briefed him about various teaching, Research and extension activities in university. He also discussed in detail about various technologies developed by university and its transmission to promising entrepreneurs. Dr Agrawal stressed in his address about inculcating entrepreneurial attitude amongst young students and trying to make them job providers than job seekers. He complimented efforts of GADVASU in this direction and promised to extend support for the cause.



- **Alumni meet at GADVASU:** A meet of Alumni Association of College of Veterinary Science, Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana was organized on 29<sup>th</sup> Dec 2019 which was attended by more than 350 veterinarians including retired faculty of the college and officers from Animal Husbandry Department Punjab. Dr H P S Kochhar, alumni of the college and presently Assistant Deputy Minister of Immigration and Citizenship Canada was the Guest of Honour. Dr Parkash Singh Brar, President, Alumni Association and PI- IDP for GADVASU emphasized on need to strengthen the Alumni association and requested senior alumni to guide new students to excel in diverse areas. He stressed that under IDP, Undergraduate students will get a

chance to visit universities abroad for getting first-hand experience and Alumni of the college will be an asset in making this move effective. Certain alumni, having their own entrepreneurship or running NGOs agreed to deliver lectures, hold workshops etc for UG students



## Vet varsity holds alumni meet



An alumni meet under way at the College of Veterinary Science, Guru Angad Dev Veterinary and Animal Sciences University, in Ludhiana on Monday. TRIBUNE PHOTO

### TRIBUNE NEWS SERVICE

**LUDHIANA, DECEMBER 30**  
To commemorate its 50 years of glorious journey, the Alumni Association of College of Veterinary Science, Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), organised an alumni meet today.

The meet was attended by more than 350 veterinarians. EK Basi, chief guest and former dean of the college, shared his experiences and highlighted the recognitions of the college at international level. He congratulated the faculty and alumni to make the one of the most prestigious veterinary universities of the country.

HPS Kochhar, guest of honour and assistant deputy minister, Immigration, Refugee, Citizen, Canada, acknowledged the role of the college in providing him with a good foundation and underlined the role of quality education in life.

GS Chahal, former deputy director, Animal Husbandry, shared the struggle they faced in the establishment of the college and uplifting the veterinary profession.

Parkash Singh Bhat dean of the college and president, Alumni Association, highlighted the importance of such a meet in his welcome address. He laid emphasis on the need to strengthen the Alumni Association and requested the senior alumni to guide new students to excel in diverse areas. He also thanked the Indian Council of Agricultural Research (ICAR) for their initiative to financially support such needs under their national development plan.

HK Verma, director, Extension Education, and secretary, Alumni Association, gave detailed introduction of the association, its functioning, role of veterinarians in society and the functioning of GADVASU. Verma thanked Indrajeet Singh, director, Animal Husbandry

Department, Punjab, for his support for the meet-cum-technical seminar.

TP Saini, KB Singh, Parmjeet Singh, senior-most alumni of the college, highlighted the chronology of the establishment of College of Veterinary Science after the division of Punjab and Haryana. Pradeep Goel, Registrar, Punjab Veterinary Council, briefed the role of the council. A total of 15 alumni of the college were also honoured for their distinguished services in various fields of society. The new-year calendar and special issue of the 'VetAlumnus', the official magazine of the association, were also released by the dignitaries.

In the technical seminar, experts Sandeep Kaswan, AK Singh and JS Hundal deliberated on goat farming, pig farming and balanced feeding of dairy animals.

The event culminated with the cultural programme coordinated by Kewal Aron and C K Singh with a vote of thanks.



**4. Photographs of activities: Attached in the last.**

**5. Challenges faced and lessons learnt under Component 1a:**

1. Proper utilization of funds has been carried out by GADVASU, however, funds under short visits could not be utilized due to COVID 19 crisis.
2. Alumni meet of College of Dairy Science and Technology and College of Fisheries was scheduled in March end but it was cancelled due to COVID 19 situation. Thus, the fund under head of alumni meet could not be utilized completely.
3. Entrepreneurship has been stressed upon in all the interactive sessions and the students showed keen interest in discussions related to various startups.

**6. Plan Ahead (Key Activities) for the next reporting period**

1. Skill Development programmes for students viz. Student Entrepreneurship trainings, skill Development Programmes, Remedial courses for weaker section students, Certificate courses, Short duration Internship, Orientation courses, Artificial intelligence training of students etc.
2. Students' exposure visits and trainings to various international universities and institutes of repute for exposure. They will be sent to various industries and plants for firsthand experience.
3. International training for faculty to enhance efficiency and competence.
4. Visiting Professorship/Adjunct faculty/Guest faculty
5. E-books and Journals purchase for University library
6. Linkages with industries through lectures and workshops with experts and MoU/Technology transfer.
7. Purchase, commissioning/installation of items under goods and equipment section as per sanction order
8. Minor civil work and renovation of existing facilities





**IDP-NAHEP sponsored workshop on “Improving Small Ruminant Health and Management for Increasing Learning Outcomes amongst Young Vets” for UG students at GADVASU from November 20th -21st, 2019**



**Demonstration of Ultrasonography in animals to DDG Education and ND, NAHEP during his visit to GADVASU at Launch Workshop of IDP on 28<sup>th</sup> November 2019**



**Expert discussions at Academia-Students-Farmer Interface on “Goat Husbandry practices for doubling the farmers’ income” under the aegis of IDP-NAHEP programme 22<sup>nd</sup> November 2019**



**Interactive session on Communication Skills for Entrepreneurship on 29<sup>th</sup> January 2020 under IDP-NAHEP project**



**IDP- NAHEP coordinated Alumni Meet 2020 on 25<sup>th</sup> February, 2020**



**Installation and demonstration of Smart class room funded under IDP**



**Installation of sanitary napkin vending machines and incinerators at GADVASU under IDP**