



GADVASU

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Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana (Pb.)

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From the Vice-Chancellor's Desk

Dear Readers,

I wish the readers of Newsletter a very happy and prosperous 2013.

The year end is a time both for greetings and introspection. This is a time to have a look at what we have achieved during the passing year and to plan out strategies for better accomplishments in the coming year.

The year 2012 was another good year for the university. GADVASU got accreditation by UGC and accreditation from ICAR and AOIU is under process. The University succeeded in getting the Non-Plan budget enhanced from ₹ 40.50 crores to ₹ 54.00 crores for the year 2012-13.

The first batch of students of the College of Dairy Science & Technology and College of Fisheries passed out during the year. Most pass out students got jobs and are doing well in their assignments. The university admitted a total of 279 students in different streams including Diploma in Veterinary and Animal Husbandry. M.Tech. in Dairy Technology was started to meet the human resource needs. Three faculty members attended six months foreign trainings. An International Symposium on 'One Health: Way Forward to Challenges in Food Safety and Zoonoses in 21st Century' was organized.

A major research project on Animal Disease Registry and Tissue Bank for ₹ 500 lakh was awarded to the university by ICAR. Two experiential learning units, one in dairy and other in medicine were awarded to the

university at a total cost of ₹ 194 lakhs. In addition, twenty one competitive research grants were earned from various agencies like ICAR, MOFP, UGC, ICMR, DST and DBT. It was heartening to note that many of these research grants were won by our young faculty. To advance the learning objective, more and more faculty members are drawing on their strengths to explore and analyse various teaching strategies. As a result, our undergraduate programmes are focusing more on problem-solving. Our target is that each scientist, be in teaching, research or extension, should have one research project as principal investigator.

Zero wastage fish processing technology for efficient utilization of edible fish meat and processing waste was developed with 100 per cent higher net profit. A fish disease diagnostic lab was established for diagnosis and treatment of diseases of culturable fishes. Culturing, breeding and seed production of high value catfish, *Heteropneustes fossilis* (singhi), was carried out successfully.

A small unit of emu farming has been established for demonstration purposes. Our focus in emu farming is to standardize Package of Practices and oil extraction procedures which shall lead to better economics. Steps have been taken to start a wildlife unit for research and training.

New value added milk products such as yog ice cream, low calorie mitha dahi, peda; meat based products such as low-salt ham slices and buffalo meat nuggets; fish products such as cutlets, nuggets, balls and fingers have been developed. Efforts are underway to transfer these technologies to the industry.

The university also registered significant growth in extension especially demonstration and dissemination of technologies to livestock and fish farmers. GADVASU organised pashu palan melas, regional kisan melas and about 27 trainings. An 'Information Centre' to attend to the queries of the farmers from different districts of Punjab was established. A Regional Research & Training Centre of the university was inaugurated on July 26, 2012, at Bhatoli, Talwara of Hoshiarpur district.

The university is now a part of National Knowledge Network (NKN) project and the



National Informatics Centre (NIC). Government of India has provided internet connectivity of 100 mbps, equipments and 15 IP addresses for connectivity under this project. The university library added more than 2000 new books during 2012.

The new building of farmers' hostel is near to completion and similarly the building for scientists' hostel would be ready shortly. The plans for other buildings have been finalized and the work shall be assigned to the executing agencies soon.

The students brought laurels to university through participation and winning positions in various events of sports, NCC, NSS and cultural events organized by various institutes.

In a short period of around six years of its establishment, the university has achieved status of one among the best veterinary universities in the country. We need to further improve our education system to impart knowledge and skills to our graduates while managing an ever-growing body of knowledge that presents both challenges and opportunities. Our research focus should be on generating technologies/ processes/ products which ensure enhancement of economics of livestock farming besides providing safe and quality foods of animal origin, better animal as well as human health and environment. You would agree with me that one owes to himself to contribute his best to the institute where one serves. Let us do this and make GADVASU an institute of excellence and great learning.

(Vijay Kumar Taneja)
Vice-Chancellor

insight

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Punjab Chief Minister lays foundation stone of research centre at Talwara village

S. Parkash Singh Badal, Chief Minister, Punjab laid the foundation stone of Regional Research and Training Centre (RRTC) of Guru Angad Dev Veterinary and Animal Sciences University at Bhatoli in Talwara. The CM hoped that with establishment of this centre, economic condition of farming community of the area will improve. Besides, he added, it will benefit farmers of the kandi area of the adjoining states of Himachal Pradesh and others. He opined that backyard poultry, rain water harvesting, pond fisheries and good quality cross bred cows especially Jersey should be promoted in the kandi area. In addition, the centre shall impart training to youth for self employment through animal husbandry activities. On this occasion, Dr. V.K. Taneja, Vice-Chancellor, revealed that this centre will develop and disseminate the area specific technologies related to livestock farming which shall improve productivity and thus further enhance farmers' income.



Food safety and twenty first century zoonoses dominate talks at international conference

A symposium on the core theme 'One Health: Way Forward to Challenges in Food Safety and Zoonoses in 21st Century' and National Conference of Indian Association of Veterinary Public Health Specialists was organized by School of Public Health and Zoonoses, from December 13-14, 2012. The chief guest of the event was Sh. G. C. Pati, Secretary, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Government of India. Mr. Patti observed that, the One Health concept has been aptly chosen and it should focus on abridging the gaps between human and veterinary medicine through conglomeration of public health and ecosystem health, for a healthier planet.



Addressing the symposium Dr. V. K. Taneja, Vice Chancellor, observed that one health concept referred to the integration of human medicine, veterinary medicine and



environmental science so as to attain optimal health for people and animals. Besides, the concept engages the principles of public health and ecosystem health for the betterment of life for future generations. Dr. Baljit Singh Gill, Associate Dean, Western College of Veterinary Medicine, University of Saskatchewan, Canada discussed the potential of one health approach to tackle the emerging/re-emerging diseases and to define the roadmap to control these diseases. Experts from overseas and India delivered lectures in seven scientific sessions. More than 300 delegates from US, Canada, Nepal and India participated in this conference. Dr. J. K. Sharma, former Head, Veterinary Public Health was bestowed the Life Time Achievement Award.

GADVASU inks MoU with NDRI Karnal

Dr. V. K. Taneja, Vice-Chancellor, GADVASU and Dr. A.K. Srivastava, Director, NDRI, Karnal, signed a Memorandum of Understanding (MoU) for collaborative research, sharing of faculty for teaching, exchange of academic information, curriculum development and training of students for a period of five years. The objective of the MoU is to encourage and facilitate cooperation between GADVASU and NDRI in fields of Dairy Science and Technology, Biotechnology and Animal Production Sciences.

GADVASU scientists attend International conference(s)

- Dr. A. L. Saini, Professor-cum-Head, Department of Livestock Production Management, attended the **XI International Conference on Goats** organized by International Goat Association at Gran Canaria, Spain from September 24-27, 2012.
- Dr. Manish Kumar Chatli delivered the lead lecture on 'Innovative ingredients for extending storage stability of pork: tomato products', at the **79th Annual Meeting of Korean Society of Food Science and Technology** at Daejeon Convention Center, Daejeon, Republic of Korea.



Varsity scientists aim high, earn prestigious projects

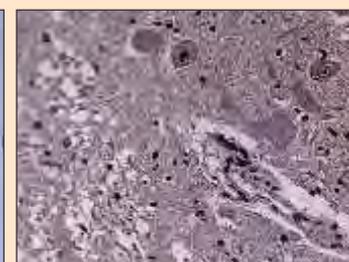
Name of the Project	Name of PI	Funding Agency	Amount (lakhs)
Fund for improvement of S&T Infrastructure in universities and higher educational institutions (FIST)	Dr. P.S. Brar	Department of Science and Technology	60
Comparison of canine parvovirus vaccine strain with field isolates by gene sequencing	Dr. P. N. Dwivedi	University Grants Commission	12.32
Development of a DIVA strategy for hemorrhagic septicemia in cattle and buffaloes	Dr. A. K. Arora	University Grants Commission	11
Network program on development of brucellosis translational research program	Dr. N.S. Sharma	Department of Biotechnology, Ministry of Science & Technology, New Delhi	150
Studies on intravital diagnostic approaches of rabies in animals	Dr. C.K Singh	University Grants Commission	12

From The Laboratories

- Research in Veterinary Microbiology is underway on involving the novel therapeutic and diagnostic potential of the bacteriophages against Brucella and Salmonella. Further, attempts are being made to standardize the rapid detection of Brucella spp. by LAMP technique.
- Immunopathological approaches have been used for diagnosis of bovine abortion due to brucellosis and other biological agents e.g. IBR etc.
- Molecular based techniques are used for more sensitive and specific diagnosis of parasitic diseases with special reference to haemoprotozoan diseases of livestock. Multiplex PCR for simultaneous molecular diagnosis of important haemoprotozoan viz Theileria spp, Babesia bigemina, Trypanosoma evansi and Anaplasma marginale has been standardized and will be applied on the field samples in future.
- Studies are underway on the acaricidal and fly repellent properties of lemon grass oil.
- Novel bioactive edible films were developed using different natural matrix materials such as chitosan, starches and their combinations. The antimicrobial potential of these developed films was enhanced against food spoilage and pathogenic organisms (Staphylococcus aureus, E. coli, Listeria monocytogenes etc.) by incorporating various antimicrobial substances (nisin, potassium sorbet, eugenol etc.).
- Storage life of processed mozzarella cheese with high-fiber content using 1% malto-dextrin is extended upto 22 days at $4 \pm 1^\circ\text{C}$ under Modified Atmosphere Packaging.
- Restructured Ham slices with low-salt and natural preservative(s) such as aloe vera gel, amla powder and chitosan, having a shelf-life of fifteen days during refrigerated storage at $4 \pm 1^\circ\text{C}$ were produced.



Immuno-localization of Brucella antigen



Immuno-localization of IBR antigen

University hosts National Training courses

- Department of Veterinary Surgery and Radiology, organized 25th national level course of twenty one days on “**Advances in Veterinary Diagnostic, Anesthetic and Surgical Techniques**” under the aegis of Center of Advanced Faculty Training (CAFT), ICAR. A total of eighteen scientists / teachers from ten states attended the training course. Hands-on training was provided to the participants on the latest techniques of anesthesia, surgery and diagnostic imaging in veterinary practice viz. gas anesthesia, surgical management of reticular diaphragmatic hernia and various other surgical interventions in cows and buffaloes.
- Department of Veterinary Gynecology and Reproduction, organized the twenty one days training course on **Application of Diagnostic Ultrasound Techniques** under the aegis of Center of Advanced Faculty Training (CAFT), ICAR New Delhi. A total of fifteen faculty members from various universities and ICAR institutes participated in the training course. The participants were trained and equipped with hands-on experiences of set-ups and applications of different types of ultrasound machines, practice on different animal species including cattle, buffaloes, equine, caprine and canines and use of colour flow doppler ultrasonography. Use of special technique of trans-vaginal ultrasound guided ovum-pick-up in cattle and buffaloes was demonstrated.

Livestock owners throng Pashu palan mela, return impressed

A Pashu Palan Mela was organized from September 22-23, 2012 to highlight and to promote livestock farming as an impressive and effective option of diversification. The theme slogan of the mela was “Pashu Palan vich naviaan taknikan apnao, Ghat Kharche nal vadhiya labh kamao” (Adopt new techniques and information in livestock, get excellent production with less input cost). The mela was inaugurated by Dr. B.S. Dhillon, Vice-Chancellor, PAU, Ludhiana. Dr. V. K. Taneja, Vice-Chancellor, GADVASU, advised farmers to adopt newer technologies for livestock improvement. During the mela, varsity's elite animals were exhibited to motivate the farmers to breed superior livestock. Organizations dealing with production/marketing of animal feed, medicine, vaccines, animal germplasm, animal farm machinery, milk & meat processing machinery, fodder seed and banking institutions provided valuable information and know-how to the livestock farmers. Various technologies such as duckweed based bioremediation, azolla culture, fish-cum-duck farming, value addition of carp with zero wastage technology, use of non-conventional feed resources in fish diet, culture of high value species like catfishes and prawns, ornamental fish culture were demonstrated to the farmers.



University scientists impart trainings to farmers

• Training on rapid and precise diagnosis of animal diseases

A five day hands-on training programme from August 27-31, 2012 with the theme “Diagnosis of Animal Diseases” was held for 20 Veterinary Officers of the State Animal Husbandry



Department. The trainees were imparted knowledge on diagnosis of brucellosis, aflatoxicosis, rabies and various other important bacterial, parasitic and blood protozoan diseases of domestic animals using conventional as well as advanced technique(s) such as ELISA, PCR and serological assays. Training was also given on latest clinical techniques such as blood transfusion, eye examination, endoscopy, ultrasound and echocardiography.

• Knowledge up-gradation programmes for farmers

- First training programme for thirty eight dairy farmers from four states: Rajasthan, Andhra Pradesh, Haryana and Punjab was held. This programme was sponsored by Indian Immunological Limited, Hyderabad. On this occasion, Mr. CH. Srinivasa Sastry, Customer Relations Manager, Indian Immunological, stated that the company is trying its best to upgrade the scientific knowledge of the dairy farmers and other technical officers from the country using GADVASU, Ludhiana as its training centre.



- Fifteen days course on knowledge up-gradation with the theme “Adopt dairy farming for the progress of Punjab” was organized for dairy farmers in which 51 farmers participated from different states.

- The third knowledge upgradation programme for forty three dairy farmers of Uttar Pradesh from December 24-28, 2012 was organized. These training programmes are sponsored by Indian Immunologicals Limited, Hyderabad. Adoption of scientific and recommended practices has lead to increase in milk productivity .



• National training programme for dairy farmers

Department of Veterinary and Animal Husbandry Extension Education organized the National Training Programme for dairy farmers from October 15-19, 2012. The farmers were educated on the value addition of dairy products, record keeping of dairy farming and especially on the issue of raising of new born calves on farmers' own dairy farms for the breed improvement besides knowledge upgradation on other managerial practices.



• Training programme on goats

A three day training programme for effective goat rearing was organized by Department of Veterinary and Animal Husbandry Extension Education, GADVASU for educating fifteen farmers of Madhya Pradesh about how to garner profits through



better goat rearing and proper managemental practices. This training programme was arranged on request from Lakshya Institute of Development, Action and Studies, Katani, Madhya Pradesh.

- **Poultry training**

Seventy participants including two ladies from different parts of the state participated in the two week training programme. A comprehensive programme comprising all aspects viz. starting from selection of land,



procurement of feeding, management of poultry birds, schedule of vaccination, handling of eggs, marketing of poultry birds including preparation of project report and loan facilities were discussed.

- **Fish Training Programmes**

Four trainings for fish farmers were held by College of Fisheries on how to rear fish, water quality, health management issues and value addition of fish products for farmers.



University faculty shine at national level, earn laurels

- GADVASU faculty bagged National Awards in 36th Annual Congress of Indian Society for Veterinary Surgery and an International symposium on Ruminant Surgery in Polyclinics, Co-operative Dairies and Shelters: Perspective 2020 held at Anand Agricultural University, Anand, Gujarat.

- **Dr. Narinder Singh Saini, Professor and Head, received the prestigious RPS Tyagi Oration Award** in recognition of significant contribution made by him for the advancement of Veterinary Surgery in India at the National Congress and presented oration on “Decision Making in Equine Colic Patients”.



- **Dr(s). J. Mohindroo, Jasmine Kaur, S.K. Mahajan, M. Raghunath and Tarunbir Singh received a Gold medal** for the best paper, entitled “Evaluation of colour Doppler sonography for predicting reducibility of intussusception in dogs”

- **Dr(s). Tarunbir Singh, Harmanjeet Singh, M. Raghunath, J. Mohindroo, P. Verma, NS Saini and SS Singh received a gold medal** for the best paper entitled “Blood gas, acid base and electrolyte changes during diazepam, midazolam premedication and halothane, isoflurane maintenance in bovine subjected to diaphragmatic herniorrhaphy”.

- **Radiologist awarded an International Bernstein Travel Fellowship** Dr. Ashwani Kumar, Assistant Professor, has been awarded Bernstein Travel Fellowship 2012 by the International Veterinary Radiology Association (IVRA) - an official organ of American College of Veterinary Radiologists. This fellowship was for attending and presenting two research papers at the 16th IVRA meeting and European Association of Veterinary Diagnostic Imaging Annual Meeting 2012 held in Bursa, Turkey from August 26-31, 2012.



- Work of scientists of Guru Angad Dev Veterinary and Animal Sciences University was recognized in an International Conference on “Sustainable Agriculture for Food and Livelihood Security” recently held at PAU.

- **Dr(s). RS Grewal, JS Lamba, CS Ahuja, P Malhotra and N Tyagi, were awarded the best paper award** for the oral presentation of the research paper entitled “The Milk Production, Milk Composition, Rumen Fermentation and

Blood Metabolites in Crossbred Cows Receiving Monensin Supplementation”.

- **Dr(s). S Saijpaul, Chandrahas and S. S. Sikka won second best prize for poster presentation** entitled “Nutrient Utilization in Kids Supplemented with Inorganic or Indigenously Prepared Chelated Zinc and Copper”.

- **Dr(s). Charan Kamal Singh, A Kaw, Ramneek, D Deka, B.S Sandhu and N.K. Sood bagged second best award for poster presentation** entitled “Significance of saliva, skin and hair follicles for antemortem diagnosis of rabies”.

- **Dr. M. Honparkhe, Asstt Gynaecologist, received the Best Poster Presentation.**

- **Dr. N.K. Singh and Dr. S.S. Rath were awarded Best Poster Presentation Award** in the XI Annual Conference of Indian Association of Veterinary Public Health Specialists, held at GADVASU on December 13-14, 2012.

- **Dr C K Singh was awarded 'Best Laboratory Animal Pathologist Award'** by Indian Association of Veterinary Pathologists in 2012.

- **Dr. N. K. Sood, Senior Veterinary Pathologist-cum-Head was awarded Fellowship of Indian Association of Veterinary Pathologist** for the year 2012.

- **Dr. APS Brar received “Savithree Jibach Sinha Best Poster Award-2012”** for his research paper entitled 'Conventional and advanced diagnosis of cryptosporidiosis in bovine calves’

- **Dr. K Gupta was awarded, IAVP, Dr. Patri Rama Rao Award -2012 for best PhD thesis** at XXIX Annual Conference of Indian Association of Veterinary Pathologists held at COVS, LLRUVAS, Hisar held from November 5-7, 2012. Also, Dr. Gupta received Best Poster Presentation Award as co-author in the International Symposium & XI Annual Conference of Indian Association of Veterinary Public Health Specialists, organized by the School of Public Health & Zoonosis, GADVASU, Ludhiana, held from December 13-14, 2012.

Obituary

Dr Harbinder Singh Rai, Associate Professor, Department of Veterinary Parasitology of Guru Angad Dev Veterinary and Animal Sciences University passed away on October 15, 2012.



CAMPUS PLAYS HOST TO WHO'S WHO OF PUNJAB

- S. Sarwan Singh Phillaur, Cabinet Minister of Animal Husbandry, Dairying and Fisheries during his visit to Guru Angad Dev Veterinary and Animal Sciences, University, Ludhiana on October 12, 2012 held deliberations with university officers and head of various departments. He visited laboratories and various dairy and fish farms of the university. He was informed about the role of Embryo Transfer Technology in producing high yielding animals and lauded the role of GADVASU and state Animal Husbandry Department in doing excellent work in this aspect.
- Dr. Umesh Kumar Mishra, Vice Chancellor of Chhatisgarh Kamdhenu University, Raipur (Chhatisgarh) visited the University. He was also shown laboratories and farm facilities.



Vets on move with a special mission!

• Training on Molecular Diagnostics of Parasitic Diseases

Dr. Mandeep Singh Bal, Assistant Scientist, Animal Disease Research Centre, attended a six month advanced training in the field of molecular diagnostics on zoonotic parasitic diseases. Dr. Bal worked on immunological diagnosis of zoonotic parasites in wild carnivores from northwestern North America, as well as the molecular characterization of zoonotic parasites prevalent in Western Canada at Zoonotic Parasite Research Unit, Department of Veterinary Microbiology, Western College of Veterinary Medicine (WCVM), University of Saskatchewan, Canada.



• Common Wealth Academic Fellowship

Dr. P. K. Sidhu has been awarded Common Wealth Academic Fellowship from October 10, 2012 to December 31, 2012 at RVC, London (UK).

• Young Scientists Award

Dr. Ajeet Kumar, Assistant Professor, earned a foreign training on 'semen technologies' for a period of six months (May-September, 2012) under the scheme, 'Second push to agricultural development in Punjab-Training of Scientists abroad' which is funded by Punjab Government through The Punjab State Farmer's Commission, Mohali. Dr. Kumar was also awarded "Travel Award for Young Scientists from developing countries" (2012) in an International Congress on Animal Reproduction (ICAR) at Vancouver, British Columbia, Canada from July 29-Aug 2, 2012.

Students' Achievements

- **Inspire Fellowships for Post-graduate students**
Students bestowed with INSPIRE (Innovation in Science Pursuit for Inspired Research) fellowship of the Department of Science and Technology, Government of India.



- Dr. Aman Dev Moudgil of Department of Veterinary Parasitology.
- Dr. Amandeep Singh of Department of Veterinary Anatomy.
- Dr. Gousia Nazir of Department of Veterinary Gynaecology & Obstetrics.
- **Student wins travel award for overseas conference**
Dr. Emy Elizabeth Varughese, a M.V.Sc. student at the Department of Veterinary Gynaecology and Obstetrics was awarded travel fellowship to present paper in 7th International Symposium on Canine and Feline Reproduction (ISCFR) at Vancouver and Whistler, Canada, respectively.
- **WPC'96 Research Grant Fellowship**
Ms. Lahari Laddika got Dr. B. V. Rao/WPC'96 Research Grant, 2011-12 for the MVSc research "To evaluate the effect of bacteriophages and microencapsulated bacteriophages against Salmonella under in vivo condition".
- Students awarded at 28th Annual Convention of ISSAR and National Symposium held on November 21-23, 2012 at Khanapara, Guwahati, Assam.
 - Navdeep Singh, M.V.Sc. Scholar, Young Scientist Award (Oral)
 - GR Bhatt, M.V.Sc. Scholar, Young Scientist Award (Oral) and Young Scientist Award (Poster).

VC administers professional oath to 2007 batch passouts

The College of Veterinary Science of Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana held the Oath Taking Ceremony of 53 passing out veterinarians of 2007 batch. Out of 53 passing out students, 14 were girls. Dr V K Taneja, Vice Chancellor, GADVASU was the chief guest on the occasion and advised the doctors about doing their duty with devotion in serving the speechless creatures and also to act as good ambassadors of GADVASU.



Nationalistic fervor at its peak: Sixty sixth Independence Day was celebrated with great enthusiasm and patriotic fervour. Dr. V.K. Taneja, Vice-Chancellor, unfurled the National Flag and inspected the 1st Pb. R & V squadron of NCC cadets. Dr. Taneja, paid rich tributes to all those who fought for country's freedom. An impressive cultural programme was organized by students and staff members of the varsity. The celebrations culminated with National Anthem performed by the students.



NSS volunteers organize plantation drive

A plantation drive was organized by the NSS wing of Guru Angad Dev Veterinary and Animal Sciences University under the slogan of "My Earth My Duty". Dr V. K. Taneja, Vice-Chancellor, GADVASU planted inaugural saplings of Ficus lacor (Pilkhan) in College of Veterinary Science campus and interacted with NSS volunteers and students. About 300 students/NSS volunteers of GADVASU took part in plantation drive and beautification of campus by irrigating the plants. A total of 400 saplings were planted by volunteers in GADVASU campus.



Students of GADVASU undertook a NCC camp

National Cadet Corps (NCC) organized combined annual training camps (CATC) organized by 5 (Punjab) Girls Battalion NCC, Moga under the command of the Camp Commandant Lt. Col. Manjinder Singh. This camp inculcates the leadership qualities, bring out national character and to motivate youth for joining Indian army. One such CATC was organized at NCC Academy Malout. A total of 69 boys and 41 girls of 1 (Pb.) R & V Sqn. NCC, Ludhiana participated in the camp.



Course on "Environment Education and Road Safety" mandatory

A new course on "Environment Education and Road Safety", a non-credit course, has been introduced keeping in view the urgency of awareness regarding environment and road safety measures among the students. The course has been kept mandatory for the award of degree for all the undergraduate students of the university.

Riot of colours mark Teej festivities

The Teej festival was celebrated at college of Veterinary Science to create awareness to stop female foeticide. Dr. Satinder Pal Singh Sangha, Director Students' Welfare addressed a large number of girls from different universities & colleges gathered at GADVASU campus to enjoy this cultural festival. A number of competitions were arranged to promote cultural talent.



Extra Curricular Activities

Showtime for vets, annual youth festival sees students vie for trophies

Third Youth festival of Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana was held from November 1-3, 2012 as an appropriate medium of internal expression of students for recreation and chiseling their hidden talent. Various events like, Spot Photography, Spot Painting, Debate, Elocution, Extempore and Cartooning Competitions were held. Also events like, Poetry Recitation, Haas Ras Poetry, Creative Writing, Poster and Rangoli making, Light Vocal (Indian) , Western Vocal (Solo), Patriotic Song , Group Song (Indian) , Folk Song , Quiz were held which enthralled the audience.



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