



ICAR Sponsored Winter School
on

Advancements in Goat Husbandry: Enhancing Production Efficiency, Reproductive Performance, and Health Management

(January 20 – February 9, 2026)



Organised By

Department of Veterinary Physiology
College of Veterinary Sciences & Animal Husbandry

U.P. Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan
Vishwavidyalaya Evam Go-Anusandhan Sansthan,
Mathura – 281001, Uttar Pradesh, India

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About the Institute

Uttar Pradesh Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan (DUVASU) was established in Mathura in 1947 as the U.P. College of Veterinary Science and Animal Husbandry by the Government of Uttar Pradesh. It is a premier veterinary university known for its excellence in education, research, and technology dissemination in livestock and allied sciences. The university hosts state-of-the-art laboratories, species-specific research centers, and a strong extension network supporting rural livestock production systems across Uttar Pradesh and neighbouring states. Department of Veterinary Physiology has carried out pioneering research work in field of reproduction, production and environmental physiology. The Goat Research and Training Centre (GRTC), under the Department of Veterinary Physiology, functions as a specialized hub for advanced caprine research, farmer-focused interventions, entrepreneurship development, and value-added product innovation. The Centre has made significant scientific contributions in reproductive biotechnology, including semen cryopreservation, computer assisted semen analysis (CASA) and flow cytometry-based sperm functional assessments, semen extender development, and fertility biomarkers in breeding bucks. Advances in precision nutrition, rumen optimization, metagenomics and climate-resilient feeding strategies-including fodder preservation and heat-stress mitigation along with insights from metabolic profiling and oxidative stress biomarkers, have strengthened our understanding of caprine physiology and performance across diverse production systems.

GRTC also plays a critical role in health diagnostics, parasitological surveillance, and the promotion of scientific herd health strategies. Through training programs, field demonstrations, farmer schools, and

technology transfer initiatives, it contributes to improved productivity, higher kid survival, and sustainable goat-farming practices in rural areas. Overall, GRTC serves as a dynamic platform for innovation, capacity building, and scientific advancement in India's small-ruminant sector.

About the Winter School

This Winter School is designed to strengthen scientific expertise in modern goat husbandry by combining research with hands-on field experience. The program emphasizes practical and laboratory-based learning across key domains, including reproduction, nutrition, health diagnostics, metabolomics, and precision caprine farming. GRTC's ongoing work in reproductive biotechnology including semen cryopreservation, extender development, CASA and flow cytometry-based sperm analysis forms a key component of the training. Participants will gain hands-on exposure to laboratory techniques and fertility assessment tools used for improving buck performance and flock productivity. In the area of nutrition, research emphasizes feed optimization, metabolomics, and the profiling of antioxidant and metabolic biomarkers in goats. Participants will gain expertise in scientific feeding strategies and techniques for assessing metabolic health.

The Winter School also highlights health diagnostics and field-based extension approaches, disease surveillance, farmer training, and dissemination of low-cost technologies. The curriculum integrates validated field models and practical protocols to improve reproductive efficiency, kid survival, and herd health. By blending advanced laboratory training with field-tested management strategies, the program equips participants to promote sustainable, technology-driven goat farming across diverse production systems.

Objectives

To meet the emerging challenges in caprine production, the Winter School offers a comprehensive blend of laboratory-based learning, scientific field practices, and technology-driven approaches. The program is designed to enhance participants' technical competence and deepen their understanding of modern goat husbandry through focused training modules such as:

1. Training on advanced breeding and reproductive techniques
2. Strengthening scientific feeding and goat production systems
3. Disease diagnostics and metabolic profiling
4. Entrepreneurship and value-added products development

Course Content

The Winter School curriculum is structured to provide participants with a strong scientific foundation and hands-on exposure to modern technologies driving advancements in goat husbandry. Each module integrates current research, practical demonstrations, and field-tested methodologies to enhance professional competency in the following areas:

- Scientific Goat Production Systems
- Artificial Insemination, Semen Freezing, CASA, Flow Cytometry
- Caprine Nutrition and Metabolic Biomarkers
- Health Diagnostics and Laboratory Methods
- Proteomics and Genomics Approaches in Caprine Research
- Integrated Caprine Farming Models
- Entrepreneurship and Value-Added Products

Eligibility

Scientists, Assistant Professors, KVK-SMS, or equivalent professionals from SVUs, SAUs, CAUs, and ICAR Institutes working in Veterinary, Animal Science, or related allied disciplines are eligible to participate.

Location and Climate

Participants may reach DUVASU, Mathura via air, rail, or road. The nearest airports are Agra (60 km) and Delhi (about 150 km), with convenient taxi and cab services to Mathura. The city is well connected through Mathura Junction and frequent bus and taxi services. January marks the peak winter season, so participants are advised to carry warm jackets, thermals, gloves, caps, and suitable footwear, as temperatures can drop sharply, particularly during early mornings and evenings.

Lodging and Boarding

Free lodging and boarding will be provided as per ICAR norms. No accommodation for accompanying persons.

Travel

Reimbursement for AC-II tier train/bus fare on shortest route. Airfare not permitted.

Application and Registration of Participants

Applicants are advised to make online application at [Google Form Link](#) or scan QR code.



It is also required to send a signed Hard Copy of the Application Form (Attached in the Brochure) to the Course Director through proper channel before the last date. A maximum of 25 participants will be selected for the course. The participants will have to pay a sum of ₹50/- as registration fee by online bank transfer method (NEFT / IMPS / UPI)/postal order/ Demand Draft in favour of Finance Officer, U.P . Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan (DUVASU), Mathura, payable at Mathura. Use the following bank details:

Name: INCOME ACC UP PDDU V
A/c no.: 147501000000123
Name of Bank: Indian Overseas Bank
Branch: Veterinary College Mathura
IFSC Code: IOBA0001475

Important Dates

Last Date for Applications	31 December, 2025
Intimation of Selection	5 January, 2026
Confirmation Due By	10 January, 2026

Course Director

Dr. Mukul Anand

Associate Professor and In-charge
GRTC, DUVASU, Mathura

Email: drmukulanandvet@gmail.com

Mobile: 9457654888 / 9917163888

Course Coordinators

Dr. Brijesh Yadav,
Professor,

Department of Veterinary Physiology

Dr. Shalini Vaswani,
Assistant Professor,

Department of Animal Nutrition

APPLICATION FORM

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1.Full Name: _____

2.Designation: _____

3.Discipline: _____

4.Present Employer and Address: _____

5.Highest Academic Degree: _____

6.Address for correspondence (along with mobile/telephone No. and Email): _____

7.Marital Status (Married/Unmarried): _____

8.Transaction ID/DD/Postal Order No. Rs. 50/- _____ Dated: _____

9.Date of Birth: _____

10.Gender: _____

11.Teaching / Research / Professional Experience (mention post held during last 5 years): _____

12.Mention if you have participated in any Research seminar, Summer / Winter School / Short Course, etc. during the previous 3 years under ICAR / Other organization: _____

13.Academic Record:

Degree	Discipline	Year	University
Ph.D			
Masters			
Graduation			

Date:

Place:

Signature of Applicant

Recommended by Forwarding Authority

It is certified that information furnished by the candidate has been found correct.

Date:

Signature of Sponsoring Authority with Seal

Weekend Attractions



Taj Mahal



Shri Krishna Janambhumi



Prem Mandir



Kusum Sarovar



Iskcon Temple



Barsana

Vrindavan, Nand-Gaon, Goverdhan, Gokul,
Char-Dham, Vaishno-Devi Temple