

## How to Apply

As per ICAR guidelines, interested candidates must register and apply online through the **Capacity Building Program (CBP) Portal** by following these steps:

1. Visit the website:

<http://www.iasri.res.in/cbp/>

2. Login using your user ID and Password.

3. After logging in, click on the **“Participate in Training”** link, fill out the application form online

4. Print the completed form, obtain the necessary approvals, and upload the scanned copy of the approved application on the CBP Portal.

5. Send the approved copy through proper channel to the **Course Director of Short Course** by post.

6. Finally, participants are required to pay a registration fee of ₹ 50/- via Demand Draft, drawn in favor of **ICAR UNIT NRCC BIKANER** payable at **Bikaner**.

## About NRCC

The ICAR-NRCC, focusing on camel research in arid and semi-arid regions. The camel, a key component of the desert ecosystem, plays vital roles in transportation, defense, cultural and socio-economic activities. Established in 1984 as a Project Directorate and upgraded in 1995, NRCC conducts research on camel. The center addresses various challenges related to camel health, productivity, conservation and management under arid conditions.

## Mandate of NRCC

- Basic and applied research for improvement camel health and production.
- Information repository on camel research and development.
- Development of camel eco-tourism.

## Important Dates

Last date for receipt of application	09-01-2025
Intimation for selection	15-01-2025
Confirmation by participants	18-01-2025



## Course Director

**Dr. Rakesh Ranjan**  
Principal Scientist, Veterinary Medicine  
ICAR-NRCC, Bikaner, Rajasthan

## Course Coordinators

**Dr Khulape Sagar Ashok**  
Scientist (Sr. Scale)  
ICAR-NRCC, Bikaner

**Dr Shyam S. Choudhary**  
Scientist  
ICAR-NRCC, Bikaner

**Dr Swagatika Priyadarsini**  
Scientist  
ICAR-NRCC, Bikaner

**Dr Vishwa R. Upadhyay**  
Scientist  
ICAR-NRCC, Bikaner



## ICAR Sponsored Short Course

**Molecular approaches for management of livestock diseases to mitigate the problem of antimicrobial resistance and drug residues in food chain**

**11<sup>th</sup> to 21<sup>st</sup> February, 2025**



Organized by  
**ICAR- National Research Centre on Camel, Jorbeer,  
Bikaner, Rajasthan- 334001**



## About the Course

The non-judicious use of antimicrobials and other drugs in veterinary medical practices has led to the emergence of antimicrobial resistance in bacterial pathogens and the presence of antibiotic and other drug residues in milk and other animal products. This poses a significant threat to both animal and public health. This course aims to educate participants on recent molecular techniques that can help mitigate this problem. Additionally, it seeks to enhance knowledge and awareness of emerging and re-emerging diseases in livestock.

## Travel & Accommodation

Travel expenses, including to-and-fro journeys by the shortest route, will be reimbursed as per the entitlement class of travel, limited to a maximum of AC II Tier fare (excluding dynamic fare) by mail/express train booked through irctc portal. Reimbursement will be made upon the actual production of tickets. Participants are advised to book their travel reservations well in advance. Accommodation on a sharing basis will be provided in the Guest House of ICAR-NRCC. Participants are requested not to bring any accompanying members. Lodging and boarding will be provided free of cost to participants, funded by ICAR, as per the norms and operational guidelines for organizing the ICAR Short Course.

## Eligibility

The course is open to faculties from SAUs, ICAR Institutes, and Central Universities who hold a Master's degree in Veterinary Science. Applicants should be working at a rank not below Scientist, Assistant Professor, or equivalent, and should have a research background in veterinary medicine, veterinary microbiology, veterinary public health, veterinary pharmacology or fields related to the course. This must be clearly reflected in the biodata form, which should be submitted along with the application form via email to [nrccshortcourse@gmail.com](mailto:nrccshortcourse@gmail.com).



## Course Contents

The course curriculum is designed to comprehensively address emerging livestock health issues in the context of climate change, focusing on management practices to minimize disease-related losses. Key topics include molecular diagnostics, antimicrobial resistance strategies, One Health approaches, and vaccination programs. Participants will also gain knowledge in feed formulation, disease surveillance, metagenomics, and HPLC techniques for disease control and food safety. The curriculum combines theoretical lectures with practical demonstrations to provide a well-rounded learning experience.

## Topics Covered

- Molecular techniques for diagnosis of infectious disease in livestock
- Epidemiological surveillance and monitoring for livestock health management.
- Next generation sequencing and phylogenetic analysis.
- Tissue culture techniques for diagnosis of viral pathogens and vaccine preparation
- Analysis of drug residues in food chain using HPLC techniques.
- Detection of antimicrobial resistance in bacterial pathogens.
- Computational tools for bio defense against emerging and transboundary animal diseases.

## About the Bikaner

Bikaner, located in the northwest of Rajasthan, India, is a city steeped in history and culture. Often referred to as the "Camel City," it is famous for its majestic **Junagarh Fort**, the revered **Karni Mata Temple**, the intricately designed **Lalgarh Palace**, and the tranquil **Gajner Lake**. Bikaner is also well-known for its delectable sweets and snacks. In February, the city experiences pleasant weather, with daytime temperatures ranging from 15°C to 25°C.

**Total No. of Participants: 25**

## Contact

**Dr. Rakesh Ranjan, Principal Scientist**  
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