

Travel

The participants will be reimbursed to and fro travel fare by shortest rail (permissible upto AC II tier)/ road route as per ICAR norms on production of valid travel documents.

Mathura is well connected to major cities of India by rail and road. It is 145 km from New Delhi. The auto rickshaw can be hired from Mathura Jn. Railway Station and Bus Station for the university campus round the clock. The selected participants are advised to make return journey reservation well in advance.

Boarding and lodging

Out station participants will be provided free boarding and lodging in the University Guest House on sharing basis. The organizers will not be able to accommodate any family members or accompanying person in the University Guest House due to limited accommodation. The weather during the month of November will be pleasant with the temperature ranging 25-35°C.

Important Dates

Last date of application :03th October, 2017

Notification of selection :05th October, 2017

Course duration :06th-15th November, 2017

Contact for details :

Course Director

Dr. Amit Kumar Verma,

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Course Coordinator

Dr. Amit Kumar,

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Department of Veterinary Microbiology

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Course Content

- Immunological tools for diagnosis of infectious diseases
- Real time PCR: a tool for molecular epidemiology
- Application of two dimension PAGE as molecular tool in disease diagnosis
- Flow Cytometry applications in diagnosis of infectious diseases
- Modern uses of electron microscopy for detection of microbes
- Cloning and expression of recombinant protein
- Purification of recombinant protein and its analysis
- Application of SDS-PAGE & Western blot in diagnosis of diseases
- Application of PCR and restriction analysis in animal disease diagnostic field
- AFLP & RFLP as a tool for molecular epidemiology of infectious agent
- New developments in vaccine for brucellosis
- Recent pathological approaches in diagnosis of economically important diseases
- Water quality testing and public health
- Separation of lymphocytes from blood and development of immunoblot
- Serology as a tool in diagnosis of infectious disease
- Strategies for development of vaccine for control of infectious diseases
- Impact of animal disease outbreaks on export of food products



ICAR Short Course on Molecular tools in Epidemiology of Infectious Diseases



06th - 15th November 2017



Organised by:

**Department of Veterinary Epidemiology &
Preventive Medicine**

**College of Veterinary Science & Animal Husbandry
Uttar Pradesh Pandit Deen Dayal Upadhyaya
Pashu Chikitsa Vigyan Vishwavidyalaya Evam
Go Anusandhan Sansthan (DUVASU),
Mathura - 281001**



The University (DUVASU)

The university is located at Brij Bhumi Mathura, the birth place of Lord Krishna. The Brij area is known since time immemorial for Lord Krishna and its animal wealth, particularly cows. The whole of Brij Kshetra is famous for its milk and milk products (doodh, dahi, makhan, pera etc.). Recognizing the importance of livestock of this area, the erstwhile U.P. College of Veterinary Science and Animal Husbandry was established in Mathura by Government of U.P. in 1947. It was the first Veterinary College in Asia to confer the degree in Veterinary Sciences. In the year 1975, this College was made a constituent College of the C.S. Azad University of Agriculture and Technology, Kanpur. However, keeping in view the requirement of trained and competent manpower in the field of Veterinary Sciences, Animal Husbandry, Fisheries and other allied disciplines and also to boost research on different aspect of cattle production, Govt. of Uttar Pradesh established U.P. Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan, Mathura, the fourth Veterinary University in the country on 25.10.2001. The University is located on the Mathura-Agra road and is about 5 km from Mathura Junction Railway Station and 4 km from new bus stand. The main campus of the University is spread over a vast land area of 782.32 acres in Mathura Cantt and about 1400 acres at Madhurikund, about 20 km from the main campus.

Department of Veterinary Epidemiology & Preventive Medicine

The department was established in 1991 by amalgamating the VIO section of the erstwhile UP college of Veterinary Sciences & Animal Husbandry. Postgraduate programmes were introduced in the year 1997 and so far, 06 doctorate and 22 masters students have completed their respective degrees. In state government, the department serves as the

“Apex Diagnostic Centre” with the state of the art laboratories for disease diagnosis and has made significant contributions in diagnosis and control of different infectious and contagious diseases. Department has the distinction of having been bestowed with Jawahar Lal Nehru Award and various other awards like ICAR emeritus scientist award, young scientist award, best research paper award, best poster awards, best review paper award etc. Department is actively engaged in teaching of undergraduate, postgraduate and doctorate courses. The laboratories of the department are well equipped to undertake teaching and research on conventional and molecular techniques like isolation of microorganisms, their molecular characterization and other epidemiological studies, which imparts hands on training to students. Department has successfully completed various projects viz., All India Coordinated Research Project on epidemiological studies on foot and mouth disease, Impact of vaccination on the control of bovine brucellosis, Molecular epidemiology of *Mycoplasma bovis* and Infectious Bovine Rhinotrachietis in ruminants, Molecular epidemiology of the infectious bovine rhinotrachietis (IBR) virus and development of quick diagnostic tool in ruminants, Studies on Campylobacteriosis in dogs funded by Indian Council of Agriculture Research (ICAR), Uttar Pradesh Council of Agriculture Research (UPCAR), University, other government and non-government funding agencies.

About the course

In the event of disease outbreak, epidemiologists/specialist of infectious diseases working in the veterinary field sometime find themselves lacking the accurate diagnosis procedure and control the spread of the pathogen. The course provides the basic and advance knowledge to epidemiology of infectious disease, surveillance and diagnosis with molecular and immunological tools like

Immunoassays, PCR, RT-PCR, flow-cytometry, electron microscopy, recombinant DNA technology, gene cloning and expression, western blot analysis, Restriction analysis, AFLP and nanotechnology etc. Teaching methods will include a mixture of interactive practical sessions and lectures. Practical exercises will use data of particular relevance to current issues in infectious disease control. A heterogeneous group of distinguished researchers, other than parent division are also expected to interact with participants. It is expected that short course amalgamating the basic concepts and current progress in area of animal health shall provide a good platform to participating professionals to enhance their competence and work efficiency by knowledge and experience gained.

Eligibility

- ❑ Master’s degree in Veterinary Sciences and allied disciplines with working knowledge of Computers.
- ❑ Working not below the rank of Assistant Professor or equivalent in the concerned subject under State Veterinary University/ State Agricultural University/ ICAR institute.

How to Apply

Visit website: <http://cbp.icar.gov.in> and login as candidate using your User Id & Password. To create User Id use "Create New Account" link on home page.

To Participate in Training: After login, click on "Participate in Training" link and click on Short course, select the desired course and fill the Performa. Take a printout of filled application form, duly sign it and get it forwarded by the competent authority of your institution. Then scan and upload the approved copy at the above mentioned portal before last date.

The selected participants will have to pay a sum of Rs. 50/- as Registration fee by Postal order/demand draft in favour of “Finance Officer, Veterinary University (DUVASU), Mathura”, payable at Mathura.