

**ICAR-NRCE**



NRCE, Hisar is a premier organization of ICAR which was established on 26 November, 1985 for improving health and productivity of equines in India. The Centre is working in frontier areas of Veterinary Sciences dealing with infectious diseases of equines for which it has been awarded prestigious Sardar Patel Outstanding ICAR Institution Award 2014. NRCE has a sub-campus the Equine Production campus at Bikaner (Rajasthan).

Hisar has other important institutions like ICAR-Central Institute for Research on Buffaloes, Lala Lajpat Rai Veterinary and Animal Science University; CCS Haryana Agricultural University; Guru Jambheshwar University and many other institutes, nearby.

The city of Hisar was founded by Firozshah Tughlaq in 1354 AD and is situated northwest of Delhi on National Highway Number 10 and is well connected by road and rail to Delhi

**NCVTC**



**ICAR Sponsored Short Course on**

**“Newer Approaches in Disease Diagnosis and Vaccine for Livestock and Poultry”**

**November 12-21, 2019**

**Name of Participant** .....  
**Designation** .....  
**Gender** : Male/Female ..... **Age** .....  
**Institute/Organization**.....  
 .....  
**City**..... **Pin** .....  
**State**..... **Country**.....  
**Phone**.....  
**Fax**.....  
**Mobile**.....  
**E-mail**.....

**Experience (Teaching/ Research)**  
**Academic Qualifications**  
**Accommodation (Required/ not required)**  
**Demand draft no.. Dated ... for Rs 50/- drawn in favour of ICAR Unit- NRCE, Hisar, payable at State Bank of India, New Grain Market, Hisar**

**Date**..... *Signature of the applicant*  
**Place**.....

**Recommendation of sponsoring authority of the Institute / University**

*Signature*  
**Date**.....  
**Place**..... *Name & Designation*



**ICAR Sponsored Short Course on**



**“Newer Approaches in Disease Diagnosis and Vaccine for Livestock and Poultry”**

**November 12-21, 2019**

**Organized by**  
**ICAR-National Research Centre on Equines,**  
**Hisar, Haryana-125001**

**Preamble:** The ICAR-NRCE has landmark achievements in the development of diagnostics and prophylactics for major equine diseases. It undertakes nation-wide monitoring and surveillance of equine infectious diseases in order to manage, control and eradicate diseases. It has successfully controlled the re-emerging diseases such as equine Influenza and equine infectious anemia in the recent past. The Centre has also been recognized as a National Referral Centre for diagnosis of important equine infectious diseases including exotic diseases by the Govt of India, Ministry of Agriculture, Department of Animal Husbandry, Dairying & Fisheries, New Delhi. The Centre is in process of attaining OIE International Reference Laboratory status for equine piroplasmiasis, equine influenza and glanders.

National Centre for Veterinary Type Cultures (NCVTC) is a national repository of microorganisms of animal origin from different regions of the country and currently maintaining about 4000 accessioned animal microbes. The repository has about 1700 bacterial and viral pathogens (>100 genera) of livestock and poultry and has developed latest immunological, molecular and tissue culture assays for identification, authentication and characterization. The Centre also distributes microbes and cell lines for R&D work through out the country.

The Centre has been working on the diagnosis and development of vaccines for viral, bacterial and parasitic diseases since its inception. The diagnostics developed by the Centre include ELISA's including monoclonal antibody based sandwich ELISA, recombinant protein based ELISA, PCR, qPCR, SNP detection PCR and so on. The Centre has facilities for the culture and propagation of *Trypanosoma evansi* and *Theileria equi* in *in vitro* system. NRCE has developed inactivated vaccines against equine influenza as well as EHV1 and has ventured into reverse genetics and bacterial artificial chromosome based strategies for carrying out genetic manipulations in viruses. NRCE is also working in the frontier areas of CRISPR- Cas9 technology and developing nanoformulations for therapeutics and vaccines.

**How to apply:** Interested participants may apply through online portal (<https://cbp.icar.gov.in>). Applicants have to pay non-refundable registration fee of Rs 50/- in the form of DD in favour of ICAR Unit-NRCE, Hisar payable at SBI, New Grain Market, Hisar. The hard copy of the duly filled form recommended by the competent authority may be sent to the Course Director on or before **10<sup>th</sup> Oct, 2019**.

#### Contents:

- Immunological and molecular diagnostics for diseases of livestock, poultry and pack/ companion animals.
- Latest trend in the development of vaccines for livestock and poultry diseases.
- Development of viral mutants employing bacterial artificial chromosomes (BAC) technology
- Reverse genetics approaches for development of recombinant Influenza viruses
- Diagnosis of exotic diseases of livestock and poultry
- Recent advances in immunohistochemical techniques in diagnosis of diseases
- Diagnostic and therapeutic trends in control of haemoprotozoan diseases
- CRISPR/cas9-mediated genome editing-Scale up of viral vaccines
- Approaches and concepts in nanodrug delivery

Lectures shall be delivered by highly qualified faculty from Institute as well as experts of national and international repute from respective areas.

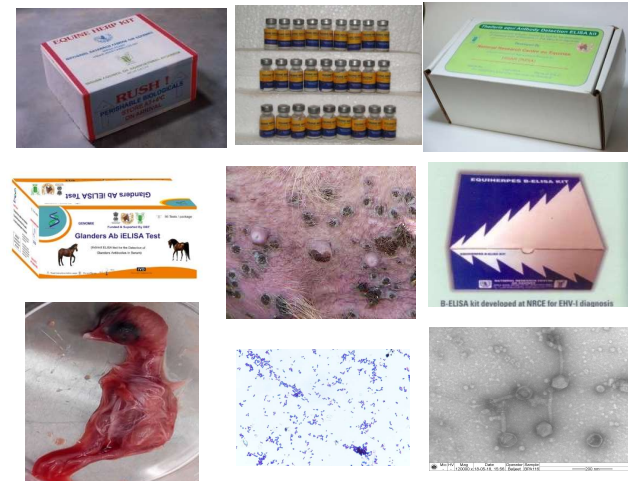
**Who can apply:** Applicants in the rank of Scientist/ Assistant Professor and above working in State / Central Agricultural and Veterinary Universities / Research Institutes/ Deemed universities are eligible to apply (**A maximum of 25 participants shall be selected on first come first serve basis for the course**)

**Travel:** The to and fro travel expenses by shortest rail route (limited to 2<sup>nd</sup> AC train / Bus fair) will be reimbursed as per the ICAR guidelines upon submitting the valid travel documents.

**Boarding and lodging:** The participants shall be provided free boarding and lodging on sharing basis in the ICAR/ University guest house.

#### Important dates

1. Last date for application submission: 10<sup>th</sup> October, 2019
2. Intimation of selection: 15<sup>th</sup> October, 2019
3. Start date of course: 12<sup>th</sup> November, 2019



Contact Address  
**Course Director**  
**Dr B.N Tripathi**  
**Director**

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#### Course Coordinators

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