**Virology (B) (VIR. 322)**

**Overall aims of the Course:**

Systematic virology course provides a detailed comprehensive knowledge on the nature and general properties of virus families of importance in veterinary medicine. The course focuses on viruses causing significant economic impact in the veterinary field, transboundary and reemerging disease problems, and/or public health burden. These viruses are discussed in relevance to their epidemiology, pathogenesis, immunogenicity, impact on the environment, diagnostic approaches, and control measures.

**Course contents:**

* Family Poxviridae
* Hemagglutination Assay
* Family Herpesviridae
* Introduction to Serological Tests
* Family Picornaviridae
* Hemagglutination Inhibition Test
* Family Orthomyxoviridae
* Serum Neutralization Test
* Family Paramyxoviridae
* Agar Gel Precipitation Test
* Family Coronaviridae
* ELISA: Principles and Applications
* Family Rhabdoviridae
* ELISA: Procedure and Interpretations
* Family Flaviviridae
* Fluorescent antibody technique
* Family Reoviridae
* Genome Profiling Methods
* Family Retroviridae
* Molecular Hybridization
* Families Phenuiviridae and Birnaviridae
* Polymerase Chain Reaction
* Quality control of Viral Vaccines