



**MANIPAL**  
ACADEMY of HIGHER EDUCATION  
(Institution of Eminence Deemed to be University)



## Clinical and Diagnostic Virology

1<sup>st</sup> to 20<sup>th</sup> September 2024

### Certificate Course

#### Experts Handling the Course



**Dr. R. K Ratho**  
Professor & Head, Department of Virology  
PGIMER, Chandigarh



**Dr. Reeta S. Mani**  
Professor & Head, Department of Neurovirology  
NIMHANS, Bengaluru



**Dr. Sanjay Bhattacharya**  
Consultant Microbiologist  
Tata Medical Centre, Kolkata



**Dr. Manjunatha MV**  
Associate Professor, Department of  
Neurovirology, NIMHANS, Bangalore



**Dr. Roger Hewson**  
Professor of Molecular Virology, London  
School of Hygiene & Tropical Medicine, London



**Dr. Chiranjay Mukhopadhyay**  
Director, Manipal Institute of Virology  
Coordinator, Center for Emerging and  
Tropical Diseases, MAHE, Manipal

#### ABOUT US

Manipal Institute of Virology (MIV) is a NABL accredited laboratory as per ISO 15189:2012 in the field of medical testing for disciplines of viral serology and molecular testing. MIV has a Biosafety level-2 (BSL-2) laboratory equipped with the latest and technologically advanced instruments.

#### COURSE OBJECTIVES

To train participants in

- ✓ Clinical and Diagnostic Virology
- ✓ Research in Clinical Virology
- ✓ Quality control in a diagnostic virology laboratory

#### ELIGIBLE PARTICIPANTS

Postgraduate (MD) Microbiology students and faculty with MD in Microbiology/Medicine and other similar clinical specialities or DM in Infectious diseases, and Foreign Medical Graduates.

#### COURSE HIGHLIGHTS

- Basic virology
- Advanced virology
- Immunology
- Clinical rounds & Case discussions
- Visit to specialized facilities
- Outbreak Investigation (Mock drill)



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#### SELECTION CRITERIA

First come first serve basis.

Please send a request letter for enrollment from the head of the institution to MIV office by e-mail.

#### COURSE CERTIFICATION

Participants will be awarded a certificate of completion from Manipal Institute of Virology (MIV), a constituent institute of the Manipal Academy of Higher Education, an Institute of Eminence (IoE).

#### COURSE FEES

INR 15,000/- (General Category)  
USD 250 (NRI/ Foreign Category)

Accommodation charges not included

#### REGISTRATION LINK

<https://sis.manipal.edu/CertificateCourses.aspx>

Course code: C98

#### MAXIMUM INTAKE

The number of participants is limited to 20

#### Course Coordinator:

**Dr. Amrita Pattanaik, Assistant Professor, MIV**



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#### TRAINING OUTCOMES

- ✓ **Comprehensive Understanding of Virology**  
Participants will gain a solid foundation in both basic and advanced virology concepts, including viral structure, replication, pathogenesis, and the interaction of viruses with host cells.
- ✓ **Enhanced Immunological Knowledge**  
Trainees will develop an in-depth understanding of the immune response to viral infections, including the mechanisms of viral evasion and the role of the immune system in controlling and eliminating viral pathogens.
- ✓ **Clinical Proficiency in Virology**  
Through clinical rounds and case discussions, participants will acquire the ability to diagnose and manage viral infections in clinical settings, applying theoretical knowledge to real-world scenarios.
- ✓ **Exposure to Specialized Facilities and Techniques**  
Visits to specialized virology facilities will provide hands-on experience with state-of-the-art diagnostic tools and research methodologies, enhancing practical skills and technical competence.
- ✓ **Outbreak Investigation and Response Skills**  
The outbreak investigation mock drill will equip trainees with the skills to effectively respond to viral outbreaks, including outbreak detection, data collection, analysis, and implementation of control measures.
- ✓ **Interdisciplinary Collaboration and Communication**  
Through various course components, participants will improve their ability to work collaboratively in multidisciplinary teams, communicate findings, and contribute to public health strategies for managing viral diseases.



*Glimpses of the course conducted prior*