

1.3.1_Description of courses_MSc in Clinical Virology

Description of the courses (abstract of the syllabus in one paragraph) which address Gender, Environment and Sustainability, Human Values, Health Determinants, Right to Health Issues, Emerging demographic changes and Professional Ethics in the Curricula

1. Health determinants, Right to health issues, Human Values		
Course code	Course name	Description
MVR603	Biosafety and biosecurity	<ul style="list-style-type: none"> • Concept of Biosafety and Biosecurity • Laboratory accidents and its prevention, mitigation, and control
MVR608	Clinical virology I	<ul style="list-style-type: none"> • Etiology, epidemiology, laboratory diagnosis, management, prevention and control of viral diseases
MVR610	Clinical virology II	<ul style="list-style-type: none"> • Etiology, epidemiology, laboratory diagnosis, management, prevention and control of viral diseases
MVR609	Basic immunology	<ul style="list-style-type: none"> • Host Virus interactions
MVR620	Advanced immunology	<ul style="list-style-type: none"> • Immune response to Viral diseases • Immunopathogenesis of Viral diseases • Immune response to Viral vaccines
MVR605	Basic epidemiology	<ul style="list-style-type: none"> • Determinants of disease and distribution of factors influencing health a disease in populations
MVR604	Applied epidemiology: Outbreak investigation and management	<ul style="list-style-type: none"> • Outbreak Investigation and management • Genetic epidemiology • Establishment of surveillance system for viral infections • Infection control strategies
MVR618	Bioinformatics	<ul style="list-style-type: none"> • Structure based approached in drug design, vaccine targets / virus attachment
MVR607	Basic biostatistics	<ul style="list-style-type: none"> • Data collection in Epidemiological studies • Data collection in experimental studies
MVR606	Applied biostatistics	<ul style="list-style-type: none"> • Mathematical and statistical modelling in infectious disease epidemiology
MVR631	Viral vaccines	<ul style="list-style-type: none"> • Vaccine trials
MVR633	Anti-viral pharmacotherapy	<ul style="list-style-type: none"> • Antiviral drug resistance • Antiviral drug development – target recognition • Quality checking • Drug trials

MVR616	Effective communication	<ul style="list-style-type: none"> • Etiology, epidemiology, laboratory diagnosis, management, prevention and control
2. Emerging demographic changes and Professional Ethics		
Course code	Course name	Description
MVR624	Emerging Viral Diseases and Public health response	<ul style="list-style-type: none"> • International Health Regulations and WHO Public health response in Viral disease emergencies.
MVR623	Research Methods, and Ethics	<ul style="list-style-type: none"> • Experimental methods in Virology- study designs • Principles of Research Ethics • Human Subject research • Animal research • Institutional ethics committees for Animal and Human • International declarations on human rights and Human subject research
MVR637	Geographic Information System	<ul style="list-style-type: none"> • Application of GIS to Viral disease – Epidemiology, early warning systems, Incorporation in Disease surveillance, alert and Response system
MVR612	Medical entomology	<ul style="list-style-type: none"> • Epizootiology of Vector borne viral diseases