

MULTIDISCIPLINARY CENTRE FOR ADVANCED RESEARCH AND STUDIES
Outline for the Syllabus for MSc Virology
(100 credits=2500 marks)

Note: The marks distribution for the final examination and internal assessment will be as per the JMI rules.

S. No.	Paper code	Paper title	Credits	Maximum Marks
FIRST SEMESTER				
01	MMV-101	Basic Microbiology	4	100
02	MMV-102	Animal Viruses and Epidemiology	4	100
03	MMV-103	Plant Viruses and Epidemiology	4	100
04	MMV-104	Biochemistry and Cell Biology	4	100
05	MMV-105	Immunology	4	100
06	MMV-106	Lab Course-I	4	100
SECOND SEMESTER				
07	MMV-201	Molecular Genetics	4	100
08	MMV-202	Molecular Biology	4	100
09	MMV-203	Viral Pathogenesis and Host Defenses	4	100
10	MMV-204	OMICs-based Technology and Bioinformatics	4	100
11	MMV-205	Biosafety measures and Challenges	4	100
12	MMV-206	Recombinant DNA Technology	4	100
13	MMV-207	Lab Course-II	4	100
THIRD SEMESTER				
14	MMV-301	Viral Diagnostics	4	100
15	MMV-302	Computational Structure Based-Drug Designing	4	100
16	MMV-303	Viral Vectors and Gene Therapy	4	100
17	MMV-304	Biostatistics and Data analysis	4	100
18	MMV-305	Emerging Viruses and Oncoviruses	4	100
19	MMV-306	Research Ethics and Science Communication	4	100
20	MMV-307	Lab Course-III	4	100
FOURTH SEMESTER				
21	MMV-401	Antivirals and Viral Vaccines	4	100

22	MMV-402	Final Seminar Presentation	4	100
23	MMV-403	MSc Dissertation and Viva Voce	12	300
Total Credits/Marks			100	2500