

Course plan

Year: 2025-26	Semester: <input checked="" type="checkbox"/> First, <input type="checkbox"/> Second, <input type="checkbox"/> Summer	Number of students:
Major: General medicine	<input checked="" type="checkbox"/> Basic sciences, <input type="checkbox"/> Physiopathology	Department: Bacteriology & Virology
Course Title: medical virology	<input checked="" type="checkbox"/> Theoretical, <input type="checkbox"/> Practical	Credit: 1 Code N.: 1274019
Instructor: Dr. Sharareh Moghim	Office address: School of Medicine, Department of Bacteriology & Virology	Tel: 031-37929013
Email: moghim@med.mui.ac.ir	Response Hours and Days: Monday 10-12 a.m.	Student representative name and mobile number:

Main objective: This course aims to provide the foundational understanding of the basic biology of viruses that may cause disease in humans, and how they cause disease. The course covers important human viral pathogens, the outcome of the disease diagnosis

On completion of this course, the student will be able to:

1. Demonstrate understanding of basic biology, including structure, function, genetics of major viral pathogens.
2. Recognize and apply the key principles of classification of viruses.
3. Explain viral replication strategies; and compare and contrast replication mechanisms used by viruses relevant for human disease
4. Explain antiviral drug action mechanisms
5. Discuss principles of virus pathogenesis
6. Explain host antiviral immune mechanisms
7. Compare and contrast methods used for laboratory diagnosis of viral infections
8. Describe local and global epidemiology of major viruses and their disease associations.
9. Comprehend and appreciate the importance and evolution of normal flora, viral latency and quasi-species evolution.
10. Comprehend the importance and role of different viruses in human cancers

References (Text books):

- 1- Medical Microbiology, Jawetz et al., (Latest version)
- 2- The slides and contents in the class

Student evaluation and the value related to each evaluation:

(The assessment tools that will be used to test student ability to understand the course material and gain the skills and competencies stated in learning outcomes)

ASSESSMENT TOOLS	From
Assignments	-
Presence in online courses	-
Midterm Exam	8
Final Exam (Written exam)	12
TOTAL MARKS	20

Students responsibilities:

- 1- Study the topics before and after the class
- 2- Follow the class order and rules
- 3- Timely study of the topic uploaded in offline sessions and confirmation of the study at the appointed time.

Discipline and educational rules:

- 1- For each unplanned absence, 0.5 points would be deducted.
- 2- Absence exceeding the permissible limit (4 absence), would fail the course.

Row	date	Time	Topic	Professor	References	Chapter	Pages
1	20/Sep/2025	10-12	General Properties of Viruses, Principles of Virus Structure	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	29	413-414 420-423
2	27/Sep/2025	10-12	Principles of Virus Taxonomy, Replication of Viruses	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	29	414-420 426
3	4/Oct/2025	10-12	Antiviral Chemotherapy and their mechanisms	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	29 30	427-430 449-451
4	11/Oct/2025	10-12	Pathogenesis of Viral Diseases, Diagnosis of Viral Infections	Dr.Tavakoli	Textbook of Medical Microbiology (Jawets, 2019)	33	437-443 447-449
5	18/Oct/2025	10-12	Herpesviridae (Part I)	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	33	473-486
6	25/Oct/2025	10-12	Herpesviridae (Part II)	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	33	486-494
7	1/Nov/2025	10-12	Parvoviridae, Poxviridae	Dr.Tavakoli	Textbook of Medical Microbiology (Jawets, 2019)	31 34	457-461 499-508
8	8/Nov/2025	10-12	MMR- Viral Gastroenteritis,	Dr.Tavakoli	Textbook of Medical Microbiology (Jawets, 2019)	40 37	605-614
Midterm-exam							
9	15/Nov/2025	10-12	Paramy xovinususes Adenoviridae	Dr.Tavakoli	Textbook of Medical Microbiology (Jawets, 2019)	40 41	595-605 617-621

10	22/Nov/2025	10-12	Influenza Viruses, Coronaviruses	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	39	581-592
11	29/Nov/2025	10-12	Rabies, Slow Infections	Dr.Tavakoli	Textbook of Medical Microbiology (Jawets, 2019)	42	623-632
12	6/Dec/2025	10-12	Picornaviridae	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	36	531-540
13	13/Dec/2025	10-12	Hepatitis Viruses	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	35	511-530
14	20/Dec/2025	10-12	HIV& Retroviruses	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	44	655-670
15	27/Dec/2025	10-12	Human Cancer Viruses	Dr.Tavakoli	Textbook of Medical Microbiology (Jawets, 2019)	43	635-638
16	10/Jan/2026	10-12	Arbo- & Robo- viruses	Dr.Tavakoli	Textbook of Medical Microbiology (Jawets, 2019)	38	