

Course plan

Year: 2024	Semester: <input checked="" type="checkbox"/> First, <input type="checkbox"/> Second, <input type="checkbox"/> Summer	Number of students:
Major: Medical doctorate	<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.: 1112741130
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: Saturday 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 micro-organisms that may cause disease in humans, and how they cause disease. The course covers viral pathogens

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	9.5
Final Exam (Written exam)	10.5
TOTAL MARKS	20

Students responsibilities:

- 1- Study the topics before and after the class
- 2- Follow the class order and rules
- 3- Online classes: on time presence and active participation in online classes
- 4- Timely study of the topic uploaded in offline sessions and confirmation of the study at the appointed time.
- 5- On time homework performance
- 6- Continuous evaluation: In each session, a quiz is performed from the previous sessions.

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	3/FEB/2024	10-12	General Properties of Viruses, Principles of Virus Structure	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	29	413-414 420-423
2	10/FEB/2024	10-12	Principles of Virus Taxonomy, Replication of Viruses: an Overview	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	29	414-420 426
3	17/FEB/2024	10-12	Replication of Viruses (continued), Antiviral Chemotherapy	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	29 30	427-430 449-451
4	24/FEB/2024	10-12	Pathogenesis of Viral Diseases, Diagnosis of Viral Infections	Dr. Shaye stehpour	Textbook of Medical Microbiology (Jawets, 2019)	33	437-443 447-449
5	2/MAR/2024	10-12	Herpesviridae (Part I)	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	33	473-486
6	9/MAR/2024	10-12	Herpesviridae (Part II)	Dr. Moghim	Textbook of Medical Microbiology (Jawets, 2019)	33	486-494
7	16/MAR/2024	10-12	Parvoviridae, Poxviridae	Dr. Shaye stehpour	Textbook of Medical Microbiology (Jawets, 2019)	31 34	457-461 499-508
8	6/APR/2024	10-12	Paramyxoviridae	Dr. Shaye stehpour	Textbook of Medical Microbiology (Jawets, 2019)	40 37	605-614
Mid term							

Exam							
9	13/APR/2024	10-12	Viral Gastroenteritis, Adenoviridae	Dr.Shaye stehpour	Textbook of Medical Microbioloy (Jawets, 2019)	40 41	595-605 617-621
10	20/APR/2024	10-12	Influenza Viruses, Coronaviruses	Dr. Moghim	Textbook of Medical Microbioloy (Jawets, 2019)	39	581-592
11	27/APR/2024	10-12	Rabies, Slow Infections	Dr. Moghim	Textbook of Medical Microbioloy (Jawets, 2019)	42	623-632
12	11/May/2024	10-12	Picornaviridae	Dr. Moghim	Textbook of Medical Microbioloy (Jawets, 2019)	36	531-540
13	18/May/2024	10-12	Hepatitis Viruses	Dr. Moghim	Textbook of Medical Microbioloy (Jawets, 2019)	35	511-530
14	25/May/2024	10-12	HIV& Retroviruses	Dr. Moghim	Textbook of Medical Microbioloy (Jawets, 2019)	44	655-670
15	1/Jun/2024	10-12	Human Cancer Viruses	Dr.Shaye stehpour	Textbook of Medical Microbioloy (Jawets, 2019)	43	635-638
16	8/Jun/2024	10-12	Arbo- & Robo- viruses	Dr.Shaye stehpour	Textbook of Medical Microbioloy (Jawets, 2019)	38	