

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Fall
Course Information for MA 403 MEDICAL VIROLOGY

Course Name: MEDICAL VIROLOGY					
Code MA 403	Regular Semester 7	Theoretical 2	Practical 2	Credits 3	ECTS 4
Name of Lecturer(s)- Academic Title:	Soran Kayfi - assistant lecturer Adel Kamal - Professor Adel Kamal - Professor				
Teaching Assistant:	Dr. Adel Kamal				
Course Language:	-				
Course Type:	Main				
Office Hours	Thirsday 13-15 PM				
Contact Email:	soran.kayfi@tiu.edu.iq adel.kamal@tiu.edu.iq adel.kamal@tiu.edu.iq Tel:07504302814 07504472908 07504472908				
Teacher's academic profile:	MSc PhD PhD				
Course Objectives:	1. Define a virus. 2. Define how the terms "virion" and "virus" differ. 3. Identify the components of a virion. 4. List the families of viruses that infect humans. 5. Describe how virus families are organized. 6. List, in order, the steps in the viral replication cycle. 7. List the kinds of infections viruses cause.				
Course Description (Course overview):	In this course the student will learn definition and general characteristics of Viruses, classification of viruses according to biochemical properties, shapes, disease they cause. Pathogenetic steps in human infection, mutation in virus, pathogenesis of viral disease. Mechanism of viral persistence immune response to viral infection and description about some viral disease such as Covid-19, HIV and virus causing Cancer. General methods for viral detection.				

COURSE CONTENT

Week	Hour	Date	Topic
1	2	4-7/10/2021	Introduction to Medical Virology
2	2	10-14/10/2021	Introduction to Medical Virology
3	2	17-21/10/2021	Pathogenesis of viral infections
4	2	24-28/10/2021	Pathogenesis of viral infections
5	2	31/10-4/11/2021	Pathogenesis of viral infections
6	2	7-11/11/2021	Pathogenesis of viral infections
7	2	14-18/11/2021	Midterm Exam
8	2	21-25/11/2021	Midterm Exam
9	2	28/11-2/12/2021	HSV I&II
10	2	5-9/12/2021	Epstein-Barr Virus (EBV) & CYTOMEGALOVIRUS (CMV)
11	2	12-16/12/2021	Enteroviruses
12	2	19-23/12/2021	Genital Tract infections
13	2	26-30/12/2021	HUMAN CANCER VIRUSES

14	2	2-5/1/2022	Viral Vaccines
15	2	9-13/1/2022	Final Exam
16	2	16-20/1/2022	Final Exam

COURSE/STUDENT LEARNING OUTCOMES

- 1 Summarize the classification of viruses
- 2 Explain the structure of viruses
- 3 Detect viruses using different assays.
- 4 Discuss the pathology of human pathogenic viruses
- 5 Explain the use of vaccines and delivery systems to control viral infections.

COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES

(Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)

Program Learning Outcomes

Cont.

1	Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states.	A
2	apply principles of evidence-based medicine to determine clinical diagnoses.	A
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.	A
4	formulate and implement acceptable treatment modalities to various disease states.	
5	use technology effectively in the delivery of instruction, assessment, and professional development.	A
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.	A
7	exhibit organizational skills, accountability, and ethical behavior.	
8	apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and adhering to standard safety practices in the laboratory environment.	A
9	apply problem-solving and decision-making skills.	A
10	apply and promote health policies and regulatory standards in the field career.	A
11	develop research in the field of medical analysis using qualitative and quantitative methods.	A

Prerequisites (Course Reading List and References):

1. CLINICAL VIROLOGY MANUAL/FIFTH EDITION/Michael J. Loeffelholz/2016 2. Introduction to Modern Virology/N. J. Dimmock et al/SIXTH EDITION/2007

Student's obligation (Special Requirements):

*Exam policy: Student Should take 2 examinations during the course. There will be no make-up exams for absences students without medical report. *Classroom polices: 1- Attendance: You are strongly encouraged to attend class on a regular basis, as participation is important to your understanding of the material. This is your opportunity to ask questions. You are responsible for obtaining any information you miss due to absence. 2- Lateness: Lateness to class is disruptive. 3- Electronic devices: All cell phones are to be turned off at the beginning of class and put away during the entire class. 4- Talking: During class please refrain from side conversations. These can be disruptive to your fellow students and your professor. 5- No Disrespectful to both the professor and to your fellow students.

Course Book/Textbook:

1. CLINICAL VIROLOGY MANUAL/FIFTH EDITION/Michael J. Loeffelholz/2016 2. Introduction to Modern Virology/N. J. Dimmock et al/SIXTH EDITION/2007

Other Course Materials/References:

Browsing websites Articles Academic Journals.

Teaching Methods (Forms of Teaching):

Lectures, Practical sessions, Presentation, Seminar, , ,

COURSE EVALUATION CRITERIA

Method	Quantity	Percentage (%)
Attendance	1	5
Participation	1	5
Quiz	1	5
Presentation	1	20
Laboratory	1	10
Practical Exam	1	10
Final Exam	1	40

Total

95

Examinations: Essay Questions, True-False, Multiple Choices, Short Answers, Matching, , ,

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD

Activities	Quantity	Workload Hours for 1 quantity*	Total Workload
Theoretical Hours	16	2	32
Practical Hours	16	2	16
Final Exam	1	10	10
Attendance	1	8	8
Participation	1	6	6
Quiz	1	6	6
Presentation	1	4	4
Laboratory	1	5	5
Practical Exam	1		0
Total Workload			87
ECTS Credit (Total workload/25)			3.48

Peer review

Signature:

Name:

Lecturer

Signature:

Name:

Head of Department

Signature:

Name:

Dean