

1	Course title	Diagnostic Virology
2	Course number	0534716
3	Credit hours (theory, practical)	3 (2, 3)
	Contact hours	45
4	Prerequisites	-
5	Program title	Master's degree (MSc.) in Medical Laboratory Sciences
6	Program code	
7	Awarding institution	University of Jordan
8	School	School of Medicine
9	Department	Department of Pathology, Microbiology and Forensic Medicine
10	Level of course	Postgraduate
11	Year of study and semester (s)	2 nd year, 1 st or 2 nd semester
12	Final Qualification	Master's degree (MSc.)
13	Other department (s) involved in teaching the course	NA
14	Language of Instruction	English
15	Date of production/revision	1/4/2018

16. Course Coordinator:

Name: Mohammad Al Madadha, M.D., Ph.D.
Office: Jordan University Hospital, Outpatient Clinics building, 3rd floor
Office phone: 00962 (6) 5353666 Ext: 2654
Office hours: Thursday 11:30-13:30
E-mail: malik.sallam@med.ju.se

17. Course Description:

This course deals with diagnostic aspects of clinical virology. It focuses on identifying and characterizing the common viral pathogens in different biologic samples (blood, respiratory, GI samples etc.). The course also introduce the students to the molecular diagnostic techniques that utilizes different PCR methods for viral load measurement and virus genotyping.

18. Course aims and outcomes:**A- Aims:**

The aim of this course is to provide basic and advanced knowledge in clinical and diagnostic aspects of Clinical Virology with hands-on experience in the molecular virology laboratory techniques.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to: Describe and explain the basic and clinical aspects of viral disease, etiology and pathogenesis of viral infectins, laboratory evaluation the molecular diagnostic techniques (PCR, sequencing, NA hybridization), To have a perspective on evolving and future techniques in the Clinical Virology field.

19. Topic Outline and Schedule:

Topic	Week
Introduction	Week #1
Classification of viruses	Week #2
Pathogenesis	Week #3
Herpesviridae	Week #4
Poxviridae and Parvoviridae	Week #5
Papillomaviridae and Polyomviridae	Week #6
Adenoviridae	Week #7
Midterm Exam	Week #8
Hepatitis viruses	Week #9
Retroviridae and HIV infection	Week #10
Picornaviridae	Week #11
Orthomyxoviridae and Paramyxoviridae	Week #12
Arboviruses	Week #13
Coronaviridae	Week #14
Oncoviruses	Week #15
Final Written Exam	Week #16

20. Teaching Methods and Assignments:

Lectures, seminar, oral and written quizzes, and practical training.

21. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Written Exams (midterm and final), oral exam, practical exam and weekly quizzes.

Based on the article (25) of the regulations of granting a Master's degree at the University of Jordan issued by the Deans' Council, the exam grades shall be distributed as follows:

-Midterm written exam: 30 grades.

-Final written exam: 40 grades.
-Final practical and oral exam: 10 grades.
-Evaluation: 20 grades.
The evaluation includes assessment of the quality and content of the presentations by each student, attendance of the theoretic and practical sessions, weekly quizzes and active participation during the course.

22. Course Policies:

A- Attendance policies:

The standard university attendance policy with regular checking of attendance of theoretic and practical sessions.

B- Absences from exams and handing in assignments on time:

Repeat exams will be carried out for absent students with a valid excuse according to the rules and regulations of the university.

C- Health and safety procedures:

The standard safety precautions for laboratory workers should be followed during the practical sessions. This includes strict adherence to use of protective clothing and personal protective equipment.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Cheating, plagiarism, misbehavior are not tolerated. Punishment will be applied according to the regulations and rules of the university.

E- Grading policy:

The grade the student gets is recorded ranging from A, A-, B+, B, B-, C+ to C.

F- Available university services that support achievement in the course:

JU library, computer libraries and the molecular diagnostics Laboratory at Jordan University Hospital.

23. Required equipment:

None

24. References:

-Fields, Bernard N., David M. Knipe, Peter M. Howley, and Diane E. Griffin. 2013. Fields virology. Philadelphia: Lippincott Williams & Wilkins.
-Bailey, W. Robert, Elvyn G. Scott, Sydney M. Finegold, and Ellen Jo Baron. 2013. Bailey and Scott's Diagnostic microbiology. St. Louis: Mosby.
-Recent original and review articles.

25. Additional information:

None

Name of Course Coordinator: Mohammad Al Madadha, M.D., Ph.D.

Signature:

Date: 01/04/2018

Head of curriculum committee/Department:

Signature:

Head of Department: Professor Abdelkader Battah

Signature:

Head of curriculum committee/Faculty:

Signature:

Dean: Professor Nathir Obeidat

Signature:

Copies to:

-Head of the Department

-Assistant Dean for Quality Assurance

-Course File