

## توصيف مساق . Medical Mycology and Virology

الفطريات و الفيروسات الطبية (0406355)

1. معلومات مدرس المساق (Instructor)

Prof. Adnan S. Jaran	اسم ( مدرس / منسق ) المساق :
أ.د عدنان سليم خليل جرن	
حد -ثل 10.30 - 11.30 , ثن - ربع 12.45 - 1.45	الساعات المكتيبة :
2119	رقم المكتب والرقم الفرعي :
jaran@aabu.edu.jo	البريد الالكتروني :
	مساعد البحث والتدريس/المشرف/الفني (إن وجد):

## 2. وصف المساق (Course Description)

Introduction to Mycology: classification of fungi, reproduction, spore formation (sexual and asexual), Mycosis: Superficial fungal infection, Cutaneous fungal infection, Sub cutaneous fungal infection, Systemic fungal infection and Opportunistic fungal infection

A course primarily designed to study diagnostic virology, an offshoot of medical microbiology, covering the basic principles of viral structure and classification. It will also discuss viruses of medical significance, emphasizing on their control and possible prevention, in addition to laboratory techniques used for diagnosis. In addition, the course investigates the general characteristics and classification of various classes of fungi. Their mode of infection, disease spectrum, laboratory diagnosis and treatment of medically significant fungi will be covered.

## 3. بيانات المساق (Course Title)

المستوى: الرابع	اسم المساق: الفطريات و الفيروسات الطبية	رقم المساق: 406413
وقت المحاضرة: 11 - 12	المتطلب السابق 0406251	طبيعة المساق: نظري
عدد الساعات الدراسية: 2	الفصل الدراسي: الاول	العام الجامعي: 2019 / 2020

## 4. أهداف المساق (Course Objectives)

Able to define terms use in mycology	أ-
Can describe basic characteristic of fungi	ب-
Able to discuss fungal reproduction	ج-
Able to describe mycoses	د-
Able to discuss laboratory examination for fungal infection.	
Able to define terms use in mycology	
Can describe basic characteristic of fungi	
Able to discuss fungal reproduction	
Able to define terms used in virology	
Can describe basic characteristics of viruses	
Able to describe viral classification	
Discuss viral replication	
Able to discuss viral disease	
Able to discuss viral identification in the lab	

**5. مخرجات التعلم (Intended Student Learning Outcomes)**  
(المعرفة والمهارات والكفايات)

يفترض بالطالب بعد دراسته لهذا المساق أن يكون قادرا على:

Able to define terms use in mycology, can describe basic characteristic of fungi, Able to discuss fungal reproduction, Able to describe mycoses, Able to discuss laboratory examination for fungal infection. Able to define terms use in mycology, can describe basic characteristic of fungi, Able to discuss fungal reproduction, Able to define terms used in virology, can describe basic characteristics of viruses, Able to describe viral classification, Able to describe viral classification, Discuss viral replication, Able to discuss viral disease and Able to discuss viral identification in the lab

**6. محتوى المساق (Course Content)**

الموضوع	الأسبوع
Course Introduction	الأول
Introduction to Medical Mycology	الثاني

Superficial fungal infection (Mycoses)	الثالث
Cutaneous fungal infection (Mycoses)	الرابع
Sub cutaneous fungal infection (Mycoses)	الخامس
Systemic fungal infection (Mycoses)	السادس
<b>الامتحان الأول</b>	
Opportunistic fungal infection	الثامن
Introduction to Medical Virology	التاسع
DNA Viruses Nonenveloped (Papovaviridae, Adenoviridae, parvoviridae) and enveloped (Herpesviridae, Herpes simplex virus Type 1 and 2, Varicella-Zoster virus, Epstein-Barr Virus and Poxviridae).	العاشر
Hepatitis B and Hepatitis D Viruses	الحادي عشر
<b>الامتحان الثاني</b>	
SingleStranded RNA Viruses (Positive-strand RNA viruses: Picornaviridae, Togaviridae, Flaviviridae, Hepatitis C viruses, Retroviruses). Negative-strand RNA viruses: Rhabdoviridae, Paramyxoviridae, Orthomyxoviridae, Filoviridae, Bunyaviridae, Arenaviridae)	الثالث عشر
Double Stranded RNA (Rotavirus). Oncoviruses	الرابع عشر
HIV and AIDS	الخامس عشر
<b>الامتحان النهائي</b>	
	السادس عشر

**7. استراتيجيات التعليم والتعلم وطرق التقويم  
(Teaching and learning Strategies and Evaluation Methods)**

ت	مخرجات التعلم	استراتيجيات التدريس	أنشطة التعلم	نوع التقويم/القياس (امتحان/عروض صفية/مناقشة/واجبات)
1	The students should know the basic structure of fungi	Brain storming, discussion	lecture	Exam/quiz
2	The student should know the principle of fungal classification	Brain storming, discussion	Lecture	Exam/quiz
3	The students should know the different types of mycoses	Brain storming, discussion	lecture	Exam/quiz
4	The students should know opportunistic fungi	Group discussion brain storming	Lecture	Exam/assignment

Exam /assignment	Lecture	Group discussion and brain storming	The students should know the principle fungal laboratory diagnosis	5
Exam/quiz	Lecture	Brain storming	The students should know the basic structure of viruses	6
Exam/quiz	Lecture	Brain storming, discussion	<b>The student should know the principle of viral classification</b>	7
Exam/quiz	lecture	Brain storming, discussion	<b>The student should know the difference between naked and enveloped viruses</b>	8
Exam/assignment	Lecture	Group discussion brain storming	<b>The students should know the different types of viral diseases</b>	9
Exam /quiz	lecture	Group discussion brain storming	The student should know the principle of viral diagnosis	10

### 8. تقييم الطلبة (Assessment)

توزيع الدرجات لكل أسلوب	توقيت التقييم	الأساليب المستخدمة
10	خلال الفصل	1-أعمال الفصل: (تقرير، وظائف، حضور)
20	الأسبوع السابع	2-امتحان تحريري أول
20	الأسبوع الثاني عشر	2-امتحان تحريري ثاني
50	أسبوع الامتحانات النهائية	3-امتحان تحريري نهائي

### 9. الكتاب المقرر (Text Book)

Burton's Microbiology for the health sciences	المرجع الرئيس
Paul G. Engelkirk and Janet Duben-Engelkirk	المؤلف
Lippincott	الناشر
2011	السنة
ninth edition	الطبعة
	الموقع الالكتروني للمرجع

### 10. المراجع الإضافية (References) (وتشمل الكتب والبحوث المنشورة في الدوريات او المواقع الالكترونية)

Lippincott's Illustrated Reviews Microbiology 2 <sup>nd</sup> Edition, by Richard A Harvey, Pamela C. Champe and Bruce D. Fisher 2007.	-1
Medical Microbiology. Patrick R. Murray, Ken S. Rosenthal and Michael A. Pfaller. Sixth edition 2009	-2
	-3

