نموذج رقم (۱۲)

جامعة: Mansoura

الخاصة بالمقرر:

كلية: Nursing

قسم:Community Health Nursing

توصيف مقرر دراسي

		١ - بيانات المقرر		
1 st Level 2 nd semester	Microbiology and Immunology الله المقرر: ميكروبيولوجي والمناعة الطبية	الرمز الكودى: MSc . 205		
1 credit hour 1 credit hour	نظري عدد الساعات الدراسية: عملي	B.Sc. in Nursing credit hour system		
This course aims to equip nur	rsing students with basic knowledge a	and skills		
of microbiology & immunolo	gy. Course topics will include: The n	ature and		
principles of detecting pathogenic microorganisms, namely bacteria,				
viruses, and fungi, structure and function of microorganisms, host-pathogen				
interactions, immunological p	principles, antimicrobial agents and re	esistance,		
specimen collection and asep	tic technique.			
		٣- المستهدف من تدريس المقرر:		
A1. Identify the components	of the human immune system			
A2. Explain the immunological responses to infectious diseases				
A3. Describe the mechanisms of human hypersensitivity reactions				
A4. Describe the basic properties of pathogenic microorganisms				
A5. Identify the major humar	n pathogens including bacteria, viruse	es, and أ- المعلومات		
fungi		والمفاهيم:		
A6. Explain basic principles	of detection and diagnosis of infection	ns,		
including specimen collection	ction			
A7. Identify the various types	s of bacterial infection			
A8. Describe the basics of an	timicrobial agents and resistance			
B1. Correlate according to ev	idence the causal relationship of the	La L		
and the diseases		ب- المهارات الذهنية		

B2. Categorizes types of microorganisms as a bacterium, virus and fungi.

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B3. Synthesizes knowledge derived from microbiology course for the	
development of decision making in practice.	
B4. Predict the dangerous of handling and use of infectious agents in	
health care settings as a part of ethical heritage.	
B5. Integrate the results obtained from health assessment and laboratory	
diagnostic tests to formulate meaningful diagnostic reports	
C1. Uses the prophylactic control and therapeutic measures related to the	
various microbes.	
C2. Examine the human specimen for microbial infection	
C3. Practice safety measures when handling infectious materials	
C4. Implement standardized guidelines when handling collecting and	الممارات الممارة
transporting of specimens for microbiological examination.	ج- المهارات المهنيةالخاصة بالمقرر:
C5. Apply the principle of bio-safety measures and aseptic precautions in	العصد بالعدر.
healthcare settings	
C6. Identify the different types of microorganisms by using laboratory	
techniques	
D1 II.	
D1. Use appropriate interpersonal communication skills	د- المهارات العامة:
Unit I: Medical microbiology	
Bacteriology Wireless	
VirologyMycology	
Types of infections	
Unit II: Immunology	
Introduction to immunology	
• Types of immunity	
Immune response	٤ - محتوى المقرر:
Antigen / Antibody reaction	
Immunoglobulin	
Unit III: Specimen collection & aseptic technique	
 Unit III: Specimen collection & aseptic technique Safety and General Laboratory Instructions Safety measures of handling samples 	
 <u>Unit III:</u> Specimen collection & aseptic technique Safety and General Laboratory Instructions 	

Specimen requirements		
Morphology of bacteria (Simple states)		
Different types of culture media		
Culture media: growth characteristics and amounts		
Microbiological techniques(inoculation)		
Smear Preparation & Ziehl–Neelsen stain		
Microscopic identification & examinations		
Disc Diffusion Susceptibility Methods		
Antibiotic & culture sensitivity		
<u>Unit IV:</u> Applied immunology		
Agglutination Reactions		
Haemagglutination		
Blood Groups		
Cross Matching		
Serial Dilution		
Antiglobulin Test (Coomb test)		
• ELISA		
1- Interactive Lectures		٥- أساليب التعليم
2- Laboratory training		٥- أساليب التعليموالتعلم :
		٦- أساليب التعليم
Not applicable		٦- أساليب التعليموالتعلم للطلاب ذوى
		القدرات المحدودة : ٧- تقويم الطلاب:
1- Semester summative evaluation:		
a- Semester practical exam		
b- Semester written exam		أ- الأساليب
2- Final summative assessment:		أ- الأساليب المستخدمة:
a- Oral exam		
b- Final written exam		
Semester summative assessment		
Practical exam	9 th week	
Semester written exam	9th week	ب- التوقيت:
1- final summative assessment	1	
Oral exam	15 th week	
	I .	

Final written exam	16 th week	
1-Semester summative assessment		
a- Laboratory performance	40 (20%)	
b- Semester written exam	20 (10%)	
2- Oral exam	40 (20%)	ج- توزيع الدرجات:
3- Final written exam	100 (50%)	_
Total	200 (100%)	
 قائمة الكتب الدراسية والمراجع : مذكرات حتب ملزمة: 		
		أ – مذكرات
		ب- كتب ملزمة:
Hannigan B, Pallister C. Biomedical	Science Explained Immunology.	
UK: Arnold Company, 2000.	ج- كتب مقترحه:	
Spicer W. Clinical Bacteriology, Myo		
Eclinburgh: churrchill livingston, 2000.		
Arora/Arora :Microbiology for Nurses & Allied Sciences, CBS		
Publishers & Distributors (2007)		
http://www1.ethz.ch/microbiol/lectures/Immunology		د- دوريات علمية أو
		د- دوريات علمية أو نشرات الخ

Dr. Mona Emad El- Din

أستاذ المادة:

Assistant. Prof Dr. Amel I Ahmed

رئيس مجلس القسم العلمي: