

نموذج رقم (12)

جامعة : Mansoura

كلية : Nursing

قسم : Community Health Nursing

توصيف مقرر دراسي

1-بيانات المقرر

1st level of BSc.N Program	الفقة/المستوى	Microbiology and Immunology	اسم المقرر	MSC 205	الرمز الكودي
1 credit hour		نظري	عدد الساعات	B.Sc. in Nursing	التخصص
1 credit hour		عملي	الدراسية	credit hour system	

This course aims to equip nursing students with basic knowledge and skills of microbiology & immunology. Course topics will include the nature and principles of detecting pathogenic microorganisms, namely bacteria, viruses, and fungi, structure and function of microorganisms, host-pathogen interactions, immunological principles, antimicrobial agents and resistance, specimen collection and aseptic technique.

2-هدف المقرر

3-المستهدف من تدريس المقرر :

- A.1- Identify the components of the human immune system
- A.2- Explain the immunological responses to infectious diseases
- A.3- Describe the mechanisms of human hypersensitivity reactions
- A.4- Describe the basic properties of pathogenic microorganisms
- A.5- Identify the major human pathogens including bacteria, viruses, and fungi
- A.6- Explain basic principles of detection and diagnosis of infections, including specimen collection

**أ-المعلومات
والمفاهيم**

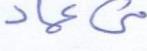
A.7- Identify the various types of bacterial infection A.8- Describe the basics of antimicrobial agents and resistance	
B.1- Correlate according to evidence the causal relationship of the microbes and the diseases B.2- Categorizes types of microorganisms as a bacterium, virus and fungi. B.3- Synthesizes knowledge derived from microbiology course for the development of decision making in practice. B.4- Predict the dangerous of handling and use of infectious agents in health care settings as a part of ethical heritage. B.5- Integrate the results obtained from health assessment and laboratory diagnostic tests to formulate meaningful diagnostic reports	ب- المهارات الذهنية الخاصة بالمقرر
C.1- Uses the prophylactic control and therapeutic measures related to the various microbes. C.2- Examine the human specimen for microbial infection C.3- Practice safety measures when handling infectious materials C.4- Implement standardized guidelines when handling collecting and transporting of specimens for microbiological examination. C.5- Apply the principle of bio-safety measures and aseptic precautions in healthcare settings C.6- Identify the different types of microorganisms by using laboratory techniques	ج- المهارات المهنية الخاصة بالمقرر
D.1- Use appropriate interpersonal communication skills E.1- Apply the principles of ethics with laboratory results	د- المهارات العامة
Unit I: Medical microbiology <ul style="list-style-type: none"> • Bacteriology • Virology • Mycology • Types of infections 	4- محتوى المقرر

<p>Unit II: Immunology</p> <ul style="list-style-type: none"> • Introduction to immunology • Types of immunity • Immune response • Antigen / Antibody reaction • Immunoglobulin <p>Unit III: Specimen collection & aseptic technique</p> <ul style="list-style-type: none"> • Safety and General Laboratory Instructions • Safety measures of handling samples • Disinfection and Sterilization • Specific organisms and their identification techniques • Specimen requirements • Morphology of bacteria (Simple stain & Gram stain) • 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 <p>Unit IV: Applied immunology</p> <ul style="list-style-type: none"> • Agglutination Reactions • Haemagglutination • Blood Groups • Cross Matching • Serial Dilution • Antiglobulin Test (Coomb test) • ELISA 	
--	--

1- Interactive Lectures 2- Laboratory training	5-أساليب التعليم والتعلم
Not applicable	6-أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة
	7-تقدير الطالب
- Semester summative evaluation: a- Semester practical exam b- Semester written exam 2- Final summative assessment: a- Oral exam b- Final written exam	أ-الأساليب المستخدمة
1- Semester summative assessment	
a- Practical exam	7 th week
b- Semester written exam	7th week
2- Final summative assessment	
a- Oral exam	15 th week
b- Final written exam	16 th week
	Degree
1-Semester summative assessment	40(20%)
a- Laboratory performance	
b- Semester written exam	20(10%)
3- Oral exam	40(20%)
4- Final written exam	100(50%)
Total	200(100%)

8-قائمة الكتب الدراسية والمراجع

<ul style="list-style-type: none"> • Hannigan B, Pallister C. Biomedical Science Explained Immunology. UK: Arnold Company, 2000. • Spicer W. Clinical Bacteriology, Mycology and parasitology. Edinburgh: churrchill livingston, 2000. • Arora/Arora :Microbiology for Nurses & Allied Sciences, CBS Publishers & Distributors (2007) 	أ-مذكرات ب-كتب ملزمة ج-كتب مقترحة
<ul style="list-style-type: none"> • http://www1.ethz.ch/microbiol/lectures/Immunology 	د-دوريات علمية أو نشرات .. الخ

مجلس رقم (134) بتاريخ 2014/6/18	معتمد بموافقة مجلس الكلية
مجلس القسم بتاريخ 2018/11/5	تم مراجعته وتحديثه طبقاً للمعايير الأكademie القومية المرجعية بتاريخ
منسق المقرر د/ مني عماد 	رئيس القسم العلمي أ.د/ سحر سليمان 