

نموذج رقم (11) أ

University: Mansoura University

Course Title: Microbiology and

Immunology

Faculty: Nursing

Code: MSc level 205

Department: Community Health Nursing

ILOs Matrix for Course Content

Content	Teaching Methods	Evaluation Methods	A. Knowledge & Understanding A1-A8	B. Intellectual Skills B1-B5	C. Practical & professional Skills C1-C6	D. General & Transferable Skills D1	E. Attitude E1
Unit I: Medical microbiology • Bacteriology • Virology • Mycology	Interactive Lectures	Semester Examination Written examination	A5, A7	B1, B2	----	----	----
Unit II: Immunology • Introduction to immunology • Types of immunity • Immune response • Antigen / Antibody reaction • Immunoglobulin	Interactive Lectures	Semester Examination Written examination Oral exam	A1- A4	B2, B5	----	----	----
Unit III Specimen collection & aseptic technique • Safety and General Laboratory Instructions • Safety measures of handling samples • Disinfection and Sterilization	Interactive Lectures Laboratory training	Semester Examination Written examination Oral exam Practical exam	A5, 6, 8	B4, 5	C1- 6	D1	E1

<ul style="list-style-type: none"> • 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 	Interactive Lectures	Semester Written Examination Written examination	A3	B5	C2	D 7, 8	----
<p>Teacher course: Dr. Rania Elkady Dr. Rasha</p>	<p>Course coordinator Dr. Mona Emad</p>		<p>Head of Department: Prof Dr. Sahar M. Soliman</p>				