Course unit title:	Microbiology		
Course unit code:	NUR 107		
Type of course unit:	Compulsory		
Level of course unit:	Bachelor (1st Cycle)		
Year of study:	1		
Semester when the unit is delivered:	2 (Spring)		
Number of ECTS credits allocated :	6		
Name of lecturer(s):	Dr Pantelidou Maria		
Learning outcomes of the course unit:	1. Describe the different types of micro-organisms (bacteria, fungi, parasites and viruses), their morphology, transmission, treatment and diagnostic methods of identification 2. Recognize the micro-organism that causes a specific disease through clinical case studies 3. Explain the functions of the immune system and immune system disorders 4. Describe the necessary skills for working in teams 5. Extract conclusions from data		
Mode of delivery:	Lectures (face to face)		
Prerequisites:	None	Co-requisites:	
Recommended optional program components:	None		
Course contents:	• **Introduction to Microbiology:** Microorganisms categories (Bacteria, Fungi, Protists, Viruses). Prokaryotic/eykaryotic micro-organisms. Nomenclature of micro-organisms • **Bacteriology:** Morphology of bacteria. Common strains and the diseases that they cause. Transmission manner. Diagnostic methods, Prevention/ treatment • **Parasitology:** Parasite life cycle and infection manners. Common species and the diseases that they cause. Prevention, treatment and control strategies • **Mycology:** Morphology of fungi. Common types of fungi and diseases that they cause. Transmission manner. Diagnostic methods. Prevention and therapy • **Virology:** Morphology of viruses. Common types and diseases that they cause. Transmission manner. Diagnostic methods. Prevention and therapy • **Immunology:** Immune system and immune response system. Hypersensitivity. Autoimmune diseases. Transplantation immunology. Vaccination • **Prevention and control of infectious diseases. Hospital-transmitted diseases** • **Laboratory** • Clinical Case study • Bacterial growth • Types of swab tests • Swab test for bacteria • Gram staining method • Antibiotic Resistance		

Recommended and/or required reading:	
Textbooks:	1. Γενική Μικροβιολογία (2012) Μαυρίδου Αθηνά Θ., Καμπούρης Μ., Νικολαΐδου Α. Εκδοτικός Οίκος: Ιατρικές Εκδόσεις Πασχαλίδης. 2. ''Ιατρική Μικροβιολογία'', Τόμος Ι και ΙΙ (2016), D. Greenwood, R. Slack, J. Peutherer, M. Barer. Εκδοτικός Οίκος: Ιατρικές Εκδόσεις Πασχαλίδης.
References:	3. Γενική Μικροβιολογία, 3η έκδοση (2006). Ελένη Καλκάνη-Μπουσιάκου. Εκδοτικός Οίκος: Έλλην.
Planned learning activities and teaching methods:	The taught part of course is delivered to the students by means of lectures, conducted with the help of powerpoint computer presentations. Lecture notes and presentations are available through the web for students to use in combination with the textbooks. Clinical case study assessment was done with the answering of specific questions regarding the various clinical cases by the students. For the understaning of the clinical cases example, the lecturer presented appropriate examples to the students. Laboratory exercises take place in the Biochemistry and Molecular Biology Lab.
Assessment methods and criteria:	• Participation: 10% • Clinical case studies: 10% • Test: 30% • Final Exam: 50%
Language of instruction:	Greek
Work placement(s):	No