
	<b>UNIVERSITY OF BANJA LUKA</b> <b>FACULTY OF MEDICINE</b>				
	<b>UNDERGRADUATE STUDIES</b>				
	<b>Study Programme of</b>	<b>MEDICINE</b>			
<b>Course Unit Name</b>	<b>Microbiology and Immunology</b>				
<b>Type of Course Unit</b>	<b>General Education</b>				
<b>Course Unit Code</b>	<b>Course Unit Status</b>	<b>Semester</b>	<b>Class Workload</b>	<b>Number of ECTS</b>	
	COMPULSORY	III, IV	III: 3L+3P IV: 3L+4P	15	
<b>Members of Staff</b>	- Dr Miroslav Petković, full professor; Dr Maja Travar, associate professor; Dr Aleksandra Šmitran; associate professor; - Dr stom. Ljiljana Božić, senior teaching assistant; Dr Jadranka Stanisavić Šimić, associate; Dr Višnja Mrđen, associate; Dr Jelena Vukić, associate; Dr Sandra Kovačević, associate.				
<b>Eligibility Requirements</b>			<b>Form of Requirements</b>		
Course units from the previous year of study must be passed.			As provided by the Rules of Study at the integrated study programme.		
<b>Goals of the Course Unit</b>					
The Goals of the Course Unit are for the students to learn: <ul style="list-style-type: none"> <li>- basic morphological and physiological traits of microorganisms which cause infectious diseases in humans;</li> <li>- traits and composition of the human microbiome;</li> <li>- pathogenic traits and factors of virulence of specific microorganisms;</li> <li>- fundamentals of the immune response to microorganisms;</li> <li>- range and transfer routes of specific pathogens;</li> <li>- basic microbiological procedures in diagnosing specific pathogens;</li> <li>- basic groups of antimicrobial medication, their effect mechanism and range, as well as mechanisms of microorganism resilience to antimicrobials;</li> <li>- fundamentals of active and passive immunization to specific pathogens.</li> </ul>					
<b>Learning Outcomes (knowledge acquired):</b>					
Knowledge acquired during classes in microbiology and immunology enables a medical doctor to: <ul style="list-style-type: none"> <li>- recognize possible causes of infectious diseases based on the clinical image;</li> <li>- determine the type of patient material required for microbiological diagnostics of diseases;</li> <li>- properly interpret a microbiological laboratory result</li> <li>- apply measures of supervision and prevention of infectious diseases.</li> </ul>					
<b>Contents of the Course Unit:</b>					
Classes in the course unit Microbiology comprise 30 thematic lectures and 30 thematic practicals and seminars, with continuous testing during all the forms of teaching. The theoretical training comprises: <ul style="list-style-type: none"> <li>- general and special bacteriology (biological traits of the bacteria cell);</li> <li>- general and special virology;</li> <li>- protozoology and parasitology;</li> <li>- mycology and</li> <li>- entomology.</li> </ul> Practical classes: (practicals and seminars) cover the same topics as the theoretical training.					
<b>Teaching Methods:</b>					
Lectures, practicals, seminars, midterms, office hours, and independent student work.					
<b>Literature:</b>					

Група аутора. Медицинска микробиологија. Уредници Бранислава Савић, Сања Митровић и Тања Јовановић. Libri medicorum, Медицински факултет у Београду, Београд, 2019.

**Examination Form:**

Pre-Exam Duties		Final Exam		Total Points
Attendance	5	Oral / Written	50	100
Midterm(s)	45			
Seminar paper				

**Note for the Course Unit:**

**Syllabus Designer: Prof. Dr Miroslav Petković**