

Information sheet for the course Microbiology

University: <i>Alexander Dubček University of Trenčín</i>	
Faculty: <i>Faculty of Health Care</i>	
Course unit code: <i>Mik/d</i>	Course unit title: <i>Microbiology</i>
Type of course unit: <i>compulsory</i>	
Planned types, learning activities and teaching methods: <i>Lecture: 3 hours weekly/39 hours per semester of study; full-time</i>	
Number of credits: <i>4</i>	
Recommended semester: <i>1st semester in the 1st year (full-time)</i>	
Degree of study: <i>I (bachelor)</i>	
Course prerequisites: <i>none</i>	
Assessment methods: <i>Written or oral examination (50 score points)- for obtaining the particular grades it is necessary to achieve:</i> <i>at least 45 score points for the grade A</i> <i>at least 40 score points for the grade B</i> <i>at least 35 score points for the grade C</i> <i>at least 30 score points for the grade D</i> <i>at least 25 score points for the grade E</i>	
Learning outcomes of the course unit: <i>Student will acquire comprehensive information in the field of bacteriology, virology and parasitology, with an emphasis for practical significance of individual microorganisms in clinical practice. Lessons explain not only particular strategies of microorganisms, but also the ability of the host organism, which are given by the individual components of the immune system.</i>	
Course contents: <i>1. Pathogenicity and virulence of microorganisms</i> <i>2. The basic line of immune defense, specific and non-specific immunity</i> <i>3. Bacteriology, structure, function and reproduction of prokaryotic cells</i> <i>4. Antigens, antibodies</i> <i>5. The complement system, phagocytosis, inflammation</i> <i>6. Microscopic fungi and antifungal chemotherapy</i> <i>7. Single-celled parasites</i> <i>8. Basic characteristics of viruses and their life cycle</i> <i>9. Overcoming host defense mechanisms</i> <i>10. The similarity of the antigens of the pathogen and host, immunization</i> <i>11. Antibiotics - meaning, distribution</i> <i>12. Nosocomial infections: causes, consequences</i> <i>13. The meaning of: mortality, lethality, source of infection, reservoir, vector, host</i>	
Recommended of required reading: <i>1. VOTAVA, M.: 2005. Lékařská mikrobiologie obecná, Neptun, Brno, 2005, ISBN 9788086850009, 351 p.</i> <i>2. VOTAVA, M.: 2003. Lékařská mikrobiologie speciální, Neptun, Brno, 2003, ISBN 9788090289666, 945 p.</i> <i>3. BEDNÁŘ, M., FRAŇKOVÁ, V., SCHINDLER, J., SOUČEK, A., VÁVRA, J.: 1996. Lékařská mikrobiologie, Triton, Praha, 1996, ISBN 80-2380-297-6, 560 p.</i> <i>ŠTEFANOVIČ, J. 2008. Lexikon lekárskej bakteriológie, Slovenská lekárska komora, Bratislava, 2008; 78 p.</i>	

Language: <i>Slovak</i>					
Remarks:					
Evaluation history: <i>Number of evaluated students: 125</i>					
A	B	C	D	E	FX
31.2%	20.0%	20.8%	9.6%	5.6%	12.8%
Lectures:					
<i>RNDr. Vladimír Meluš, PhD., MPH</i>					
Last modification: <i>22.4.2014</i>					
Supervisor: <i>Doc. MUDr. Jana Slobodníková, CSc.</i>					