

## Information sheet for the course Microbiology I.

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>	
<b>Faculty:</b> <i>Faculty of Health Care</i>	
<b>Course unit code:</b> Mik1/d	<b>Course unit title:</b> Microbiology I.
<b>Type of course unit:</b> <i>compulsory</i>	
<b>Planned types, learning activities and teaching methods:</b> <i>Lecture: 1 hour weekly/13 hours per semester of study; full-time</i>	
<b>Number of credits:</b> 2	
<b>Recommended semester:</b> <i>1<sup>st</sup> semester in the 1<sup>st</sup> year (full-time)</i>	
<b>Degree of study:</b> <i>I (bachelor)</i>	
<b>Course prerequisites:</b> none	
<b>Assessment methods:</b> Written or oral examination (50 score points)- for obtaining the particular grades it is necessary to achieve: at least 45 score points for the grade A at least 40 score points for the grade B at least 35 score points for the grade C at least 30 score points for the grade D at least 25 score points for the grade E	
<b>Learning outcomes of the course unit:</b> Student will acquire by studying course "Microbiology I. "basic knowledge of general microbiology, focusing on the specifics of prokaryotic organisms, viruses and eukaryotic organisms. Students are mediated information on living strategies of pathogens, their pategenite, virulence, and interaction with components of the immune system.	
<b>Course contents:</b> 1. Specifics of the construction of prokaryotic cells and their reproduction. 2. Specifics of construction of prokaryotic and eukaryotic viruses. 3. Propagation of viruses. 4. Pathogenicity and virulence of microorganisms. 5. Ability of pathogens to circumvent and / or eliminate effector components of the immune system. 6. Taxonomy of bacteria. 7. The clinically relevant bacterial species. 8. Clinically significant species DNA viruses. 9. A clinically important species of RNA viruses, retroviruses. 10. Clinically significant species of microscopic fungi. 11. Prions. 12. Antibiotics and chemotherapeutics. 13. Antiviral, antifungal agents.	
<b>Recommended of required reading:</b> 1. BETINA, V. – NEMEC, P. 1977. <i>Všeobecná mikrobiológia</i> . 1977; 2. BEDNÁŘ, M. - FRAŇKOVÁ, V. - SCHINDLER, J. - A. SOUČEK, A. – VÁVRA, J. <i>LÉKAŘSKÁ MIKROBIOLOGIE</i> . 1996.;; 3. VOTAVA J. 2000. <i>Obecná lékařská mikrobiologie</i> . 2000.	
<b>Language:</b> Slovak	
<b>Remarks:</b>	
<b>Evaluation history:</b> <i>Number of evaluated students</i>	

A	B	C	D	E	FX
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<b>Lectures:</b> RNDr. Vladimír Meluš, PhD., MPH					
<b>Last modification:</b> 22.04.2014					
<b>Supervisor:</b> doc. MUDr. Mária Štefkovičová, PhD., MPH.					