

## Information sheet for the course Fundamentals of Microbiology

<b>University:</b> <i>Alexander Dubček University of Trenčín</i>	
<b>Faculty:</b> <i>Faculty of Health Care</i>	
<b>Course unit code:</b> <i>ZakMik/d</i>	<b>Course unit title:</b> <i>Fundamentals of 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> <i>2</i>	
<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> <i>none</i>	
<b>Assessment methods:</b> <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>	
<b>Learning outcomes of the course unit:</b> <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. Student receives an overview of the most common pathogenic microorganisms and human commensals, with particular attention paid to nosocomial infections.</i>	
<b>Course contents:</b> <i>1. Object of microbiology, pathogenicity and virulence of microorganisms</i> <i>2. Taxonomy of clinically relevant bacterial species</i> <i>3. Characterization of clinically relevant bacterial species</i> <i>4. Antibiotics - importance, usage, resistance, side effects</i> <i>5. Distribution of antibiotics</i> <i>6. Microscopic fungi and antifungal chemotherapy</i> <i>7. Single-celled parasites</i> <i>8. Basic characteristics of viruses</i> <i>9. Morphology and taxonomy of viruses</i> <i>10. Clinically significant types of viruses</i> <i>11. The natural microflora of the human body</i> <i>12. Nosocomial infections</i> <i>13. Principles of cooperation between nurses and laboratory technicians in the diagnosis of microorganisms</i>	
<b>Recommended of required reading:</b> <i>1. VOTAVA, M.: Lékařská mikrobiologie obecná I. Brno : Neptun, 2005. 351 p. ISBN 9788086850009.</i> <i>2. VOTAVA, M.: Lékařská mikrobiologie II – přehled vyšetřovacích metod v lékařské mikrobiologii. Brno: Masarykova univerzita, 2000. 309 p. ISBN 9788021022720.</i> <i>3. BETINA, V. - NEMEC, P.: Všeobecná mikrobiológia. Bratislava : Alfa, 1977. 477 p.</i> <i>4. BEDNÁŘ, M. - FRAŇKOVÁ, V. - SCHINDLER, J. - SOUČEK, A. - VÁVRA, J.: Lékařská</i>	

*mikrobiologie. Praha : Triton, 1996. 560 p. ISBN 80-2380-297-6.*

**Language:** *Slovak*

**Remarks:**

**Evaluation history:** *Number of evaluated students: 411*

A	B	C	D	E	FX
15,96	12,72	14,21	12,47	23,94	20,7

**Lectures:**

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**Last modification:** *22.04.2014*

**Supervisor:** *doc. PhDr. Dagmar Mastiliaková, PhD.*