

<b>Higher education institution:</b> <i>Slovak Medical University in Bratislava</i>					
<b>Faculty:</b> <i>Faculty of Medicine</i>					
<b>Course code:</b> <i>GM 011A</i>			<b>Course title:</b> <i>Medical Biochemistry (1)</i>		
<b>Type, extent and method of educational activity:</b> <i>Number of hours per semester:</i> <i>Lectures: 28/2 hours per week</i> <i>Practices: 28/2 hours per week</i>					
<b>Number of credits:</b> <i>5 credits</i>					
<b>Recommended semester/trimester study:</b> <i>2. Th</i>					
<b>Level of higher education study:</b> <i>1. + 2. Level</i>					
<b>Prerequisite courses:-</b>					
<b>Requirements for completion of the course:</b> <i>Method of assessment and completion of the course: active attending of lectures and practical exercises. Final test: minimum threshold of success: 60%. Evaluation: Evaluation: A: 95% -100%, B: 88% -94% C: 77% -87%, D: 66% -76%, E: 60% -65%.</i> <i>Student workloads 69 hours.</i>					
<b>Learning outcomes:</b> <i>I. Biochemistry of Main Body Components</i> <i>II. Metabolism</i>					
<b>Brief content of the course (syllabus):</b> <i>Bochemistry of Main Body Components. Proteins. Saccharides. Lipids/Cholesterol. Enzymes. Nucleotides/DNA/RNA. Hemoglobin. Vitamines, Trace Elements. Complex Lipids. Complex Saccharides. Neurotransmitters. Metabolism. Catabolism of Lipids. Anabolism and Catabolism of Aminoacids. Fuels. Krebs Cycle. Bioenergetics. Water and Electrolytes Balance.</i>					
<b>Recommended literature:</b> <i>J. Baynes, M. Dominiczak: Medical Biochemistry, Mosby, London, 1999</i> <i>P. Campbell, A. Smith: Biochemistry Illustrated, Churchill a Livingstone, London 2001</i> <i>Devlin: Textbook of Biochemistry with Clinical Correlations, Willey-Liss, New York, 1997</i> <i>G. Kováč, A. Porubenová: Medicínska biochémia: základné princípy a ich klinické aplikácie: poznámky k prednáškam, SZU Bratislava, 2012, 1-258</i> <i>D. Pritchard, B: Korf: Základy lékařské genetiky, Galén, 2007</i>					
<b>Language requirements:-</b>					
<b>Notes:</b> <i>The course runs in English language.</i>					
<b>Course assessment</b> Assessed students in total: 0					
A	B	C	D	E	FX
0%	0%	0%	0%	0%	0%
<b>Lecturers:</b> <i>prof. MUDr. RNDr. Gustáv Kováč, CSc., MBA,</i> <i>Ing. Lucia Hudecova</i>					
<b>Date of last modification:</b> 12. 6. 2016					
<b>Supervised by:</b> <i>prof. MUDr. Peter Šimko, CSc.</i>					

<b>Higher education institution:</b> <i>Slovak Medical University in Bratislava</i>																		
<b>Faculty:</b> <i>Faculty of Medicine</i>																		
<b>Course code:</b> <i>GM 011B</i>			<b>Course title:</b> <i>Medical Biochemistry (2)</i>															
<b>Type, extent and method of educational activity:</b> <i>Number of hours per semester:</i> <i>Lectures: 28/3 hours per week</i> <i>Practices: 28/2 hours per week</i>																		
<b>Number of credits:</b> <i>6 credits</i>																		
<b>Recommended semester/trimester study:</b> <i>3. th</i>																		
<b>Level of higher education study:</b> <i>1. + 2. level</i>																		
<b>Prerequisite courses:</b> <i>GM 011A Medical Biochemistry (1)</i>																		
<b>Requirements for completion of the course:</b> <i>Method of assessment and completion of the course: active attending of lectures and practical exercises, test.</i> <i>Final test: minimum threshold of success: 60%. Evaluation: Evaluation: A:95% -100%, B: 88% -94% C: 77% -87%, D: 66% -76%, E:60% -65%. Exam. A, B, C, D, E, FX</i> <i>Student workload is 94 hours</i>																		
<b>Learning outcomes:</b> <i>III. Biochemistry of Organs and Functions</i> <i>IV. Biochemistry of Processes</i>																		
<b>Brief content of the course (syllabus):</b> <i>Bochemistry of Main Organs of Human body. Extracellular Matrix. Membranes. Gastrointestinal Tract. Blood. Liver. Endocrine System. Bone. Muscle. Nervous System. Lungs. Biochemistry of Main Processes in Human Body. Recombinant DNA. Gene Expression. Hemostasis and Thrombosis. Proteosynthesis. Acid Base Balance. Immune Response. Bio Signalling. Antioxidant Defense. Aging. Cancer.</i>																		
<b>Recommended literature:</b> <i>J. Baynes, M. Dominiczak: Medical Biochemistry, Mosby, London, 1999</i> <i>P. Campbell, A. Smith: Biochemistry Illustrated, Churchill Livingstone, London 2001</i> <i>Devlin: Textbook of Biochemistry with Clinical Correlations, Wiley-Liss, New York, 1997</i> <i>G. Kováč, A. Porubenová: Medicínska biochémia: základné princípy a ich klinické aplikácie: poznámky k prednáškam, SZU Bratislava, 2012, 1-258</i> <i>D. Pritchard, B. Korf: Základy lékařské genetiky, Galén, 2007</i>																		
<b>Language requirements:-</b>																		
<b>Notes:</b> <i>The course runs in Slovak and English language.</i>																		
<b>Course assessment</b> Assessed students in total: 0																		
<table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>FX</th> </tr> </thead> <tbody> <tr> <td>0%</td> <td>0%</td> <td>0%</td> <td>0%</td> <td>0%</td> <td>0%</td> </tr> </tbody> </table>							A	B	C	D	E	FX	0%	0%	0%	0%	0%	0%
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