

## Information sheet for the course Pathology and patophysiology

<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>PAPF/d</i>	<b>Course unit title:</b> <i>Pathology and patophysiology</i>
<b>Type of course unit:</b> <i>compulsory</i>	
<b>Planned types, learning activities and teaching methods:</b> <i>Lecture: 2 hours weekly/26 hours per semester of study; full-time</i>	
<b>Number of credits:</b> <i>3</i>	
<b>Recommended semester:</b> <i>3<sup>rd</sup> semester in the 2<sup>nd</sup> year (full-time)</i>	
<b>Degree of study:</b> <i>I (bachelor)</i>	
<b>Course prerequisites:</b> <i>Anatomy I. II., Physiology</i>	
<b>Assessment methods:</b> <i>During semester student can get 50 points</i> <ul style="list-style-type: none"> <li>- <i>Test (20 points)</i></li> <li>- <i>Oral examination (30 points)</i></li> </ul> <i>For assesment A is necessary get at least 48 points, for B at least 44 points, for C at least 41 points, for D at least 38 points and for E minimum 35 points.</i>	
<b>Learning outcomes of the course unit:</b> <i>After completing the course the student is able to:</i> <ul style="list-style-type: none"> <li>- <i>define the basic concepts of pathological anatomy and physiology,</i></li> <li>- <i>describe certain medical conditions, inflammatory diseases, pathology of individual systems,</i></li> <li>- <i>explain the cause of the malfunctioning of the body and disease,</i></li> <li>- <i>explain the link between disease onset and symptoms.</i></li> </ul>	
<b>Course contents:</b> <ol style="list-style-type: none"> <li><i>1. Introduction to pathology. Methods in pathology.</i></li> <li><i>2. Regressive changes. Progressive changes. Pathology of inflammation. Types of inflammation.</i></li> <li><i>3. Circulatory disorders (global and local). Pathology of tumors.</i></li> <li><i>4. Immunopathology. The pathology of the skeletal system.</i></li> <li><i>5. Pathology of the muscular system. The pathology of the central nervous system.</i></li> <li><i>6. The pathology of the peripheral nervous system.</i></li> <li><i>7. Introduction to Pathophysiology - basic concepts, definitions.</i></li> <li><i>8. Fundamentals of molecular etiopatogenesisi. Inflammation, malignant transformation of cells.</i></li> <li><i>9. electrolyte and acid-base balance disorders</i></li> <li><i>10. Patophysiology of pain. Pathophysiology of the respiratory system.</i></li> <li><i>11. Pathophysiology of blood and hematopoietic system. Pathophysiology of the cardiovascular system. Pathophysiology of urinary system.</i></li> <li><i>12. Pathophysiology of the digestive system. Pathophysiology of the endocrine system.</i></li> <li><i>13. Pathophysiology of nervous system. Pathophysiology of bones and joints.</i></li> </ol>	
<b>Recommended of required reading:</b> <ol style="list-style-type: none"> <li><i>1. BENČAT, M. - BAYER, A. - DANIŠ D. Základy patológie. Martin : Osveta, 2003.</i></li> <li><i>2. HULÍN, I., a kol. Patofyziológia a klinická fyziológia pre magisterské a bakalárske štúdium. SAP, s.r.o., 2005. 593 s. ISBN 80-89104-66-5.</i></li> <li><i>3. NEČAS, E. Patologická fyziologie orgánových systémů (Část I) Praha : Karolinum, 2009, 379 s. ISBN 9788024617114.</i></li> <li><i>4. NEČAS, E. Patologická fyziologie orgánových systémů (Část II Praha : Karolinum, 2009, 379 s. ISBN: 9788024617121.</i></li> </ol>	

5. MASÁR, O., MALINA, A. *Patologická fyziológia pre nelekárske odbory.*  
PLANK, L. - JÁN HANÁČEK, J. A KOL. *Patologická anatómia a patologická fyziológia.* Martin  
: Osveta, 2007. 285 s. ISBN 8080632410.

**Language:** *Slovak*

**Remarks:**

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

A	B	C	D	E	FX

**Lectures:** *prof. MUDr Jiří Klein, Ph.D, FETCS, prof. MUDr. Adriana Ondrušová, PhD., MUDr. Marcel Mišák*

**Last modification:** *22.04.2014*

**Supervisor:** *doc. MUDr. Juraj Čelko, PhD.*