

## Information sheet for the course Laboratory practice IV.

<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>LabPX4/e</i>	<b>Course unit title:</b> <i>Laboratory practice IV.</i>
<b>Type of course unit:</b> <i>compulsory</i>	
<b>Planned types, learning activities and teaching methods:</b> <i>Practice: 32 hour weekly/ 416 hours per semester of study; full-time</i>	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> <i>6<sup>th</sup> semester in the 3<sup>rd</sup> year (part-time)</i>	
<b>Degree of study:</b> <i>I (bachelor)</i>	
<b>Course prerequisites:</b> <i>Laboratory practice III.</i>	
<b>Assessment methods:</b> <i>A student obtains credits after completion of the prescribed number of hours given to specialized work during laboratory practice. The practical tasks given to students by co-operating external mentors from the partner laboratory workplace, must be managed. A student can obtain maximum of 40 points. For active participation a student obtains maximum of 10 points. All together 50 points for the course.</i> <i>To obtain A, a student must score at least 45 points, to obtain B, a student must score at least 40 points, to obtain C, a student must obtain at least 35 points, to obtain D, a student must obtain at least 30 points, and finally to obtain E, a students must to obtain at least 25 points.</i>	
<b>Learning outcomes of the course unit:</b> <i>Based on the knowledge gained from successful completion of the course “Laboratory practice III”, a student gains routine manual skills in in the basic disciplines of laboratory examination methods within health care. A student acquires knowledge and skills necessary to conduct independent calibration of analytical methods and quality management.</i>	
<b>Course contents:</b> <ol style="list-style-type: none"> <li>1. <i>Operation laboratory analysers – general.</i></li> <li>2. <i>Calibration of the apparatus, rules and possible errors.</i></li> <li>3. <i>Laboratory specific standard operating procedures carried out in a given laboratory workplace.</i></li> <li>4. <i>Principles of creation and modification of standard operating procedures, according to the standards.</i></li> <li>5. <i>The results of laboratory tests, their judgment with respect to the reference limits/bounds.</i></li> <li>6. <i>Internal control management, application of Westgard rules.</i></li> <li>7. <i>External quality control, principles and procedures, solving disagreements.</i></li> <li>8. <i>Validation of laboratory results, policies – principles and procedures.</i></li> <li>9. <i>Communication with caregivers, rules to report results.</i></li> <li>10. <i>Quality management of specific laboratory workplace – controlled documentation of a workplace.</i></li> <li>11. <i>Ethical aspects of laboratory work.</i></li> </ol>	

**Recommended of required reading:**

1. PRŮŠA, R., ČEPOVÁ, J., PETRTÝLOVÁ, K. 2002. Příručka laboratorních vyšetření. Triton, Praha, 2002, 139 p., ISBN 8072542737.
2. ŠTEFANOVIČ, J., HANZEN, J. 2012. Mikroorganizmy človeka v zdraví a chorobe. HPL SERVIS, Bratislava, 2012, 190 p., ISBN 9788097115104.
3. DOLEŽALOVÁ, V., a kol. 1995. Principy biochemických vyšetřovacích metod I., IDVPZ, Brno, 1995, 234 p., ISBN 807013206-X.
4. DOLEŽALOVÁ, V., a kol. 1995. Principy biochemických vyšetřovacích metod II., IDVPZ, Brno, 1995, 230 p., ISBN 807013206-X.
5. MEŠKO, D., PULLMANN, R., NOSÁLOVÁ, G. 1998. Vademékum klinickej biochémie. Osveta, Martin, 1998, 1647 p., ISBN 8080630054.

**Language:** *Slovak***Remarks:****Evaluation history:***Number of evaluated students: 41*

a	b	c	d	e	f
100.00%	0.00%	0.00%	0.00%	0.00%	0.00%

**Lectures:***RNDr. Vladimír Meluš, PhD., MPH, Ing. Jana Netriová, PhDr. Katarína Kašlíková PhD., Bc. Jana Gavendová, Mgr. Lucia Dorová, doc. Jana Slobodníková, CSc.***Last modification:** *22.4.2014***Supervisor:** *doc. MUDr. Jana Slobodníková, CSc.*