

## Information sheet for the course Hematology

<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>Hem/e</i>	<b>Course unit title:</b> <i>Hematology</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> <i>Seminar: 2 hours weekly/26 hours per semester of study; full-time</i>	
<b>Number of credits:</b> <i>4</i>	
<b>Recommended semester:</b> <i>5<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>none</i>	
<b>Assessment methods:</b> <i>Student achieves during the semester 50 points</i> <ul style="list-style-type: none"> <li>- <i>making seminar work práce on ordained theme (20 points)</i></li> <li>- <i>oral examination (30 points)</i></li> </ul> <i>Needed points to evaluation: A- at least 48 points, B at least 44 points, C - at least 41 points, D at least 38 points, E - at least 35 points.</i>	
<b>Learning outcomes of the course unit:</b> Student obtains, by study of hematology, the basic knowledge about the blood cells creation, physiology of hemostasis, imunology of red blood cells, white blood cells, thrombocytes, and from transfusiology. Student obtains the knowledge about laboratory examinations in hematology, in hemostatis and in immunohematology and will be able to use them in practise.	
<b>Course contents:</b>	
<b>Lectures</b>	
<ol style="list-style-type: none"> <li>1. <i>Hematology- introduction, physiology of blood cells creation.</i></li> <li>2. <i>Physiology of hemostasis.</i></li> <li>3. <i>Immunology of blood red celles, blood white cells and thrombocytes.</i></li> <li>4. <i>Anaemias..</i></li> <li>5. <i>Non-tumorous and tumorous disorders of blood white cells.</i></li> <li>6. <i>Hemostasis disorders.</i></li> <li>7. <i>Laboratory diagnostics in hematology.</i></li> <li>8. <i>Laboratory diagnostics in hemostatis.</i></li> <li>9. <i>Laboratory diagnostics in immunohematology.</i></li> <li>10. <i>Physiological and pathological values of complete blood count a hemostatic examinations.</i></li> <li>11. <i>Preanalytical phase in hematology, quality control in hematologic laboratory.</i></li> <li>12. <i>Basis of transfusiology.</i></li> <li>13. <i>POCT tests and analysers in hematology and transfusiology.</i></li> </ol>	
<b>Practical excercises:</b>	
<ol style="list-style-type: none"> <li>1. <i>Laboratory excercises from analytic methods in hematology I.</i></li> <li>2. <i>Laboratory excercises from analytic methods in hematology II.</i></li> <li>3. <i>Laboratory excercises from analytic methods in hematology III.</i></li> <li>4. <i>Laboratory excercises from analytic methods in hemastasis I.</i></li> <li>5. <i>Laboratory excercises from analytic methods in hemastosis II.</i></li> <li>6. <i>Laboratory excercises from analytic methods in hemastasis III.</i></li> <li>7. <i>Laboratory excercises from analytic methods in hemastosis IV.</i></li> </ol>	

8. *Laboratory excercises from analytic methods in immunohematology I.*
9. *Laboratory excercises from analytic methods in immunohematology II.*
10. *Laboratory excercises from analytic methods in immunohematology III.*
11. *Laboratory excercises from analytic methods in immunohematology IV.*
12. *Laboratory excercises – quality control in laboratory of hematology.*
13. *Laboratory excercises – POCT analyse in hematology.*