





ԵՐԵՎԱՆԻ ՊԵՏԱԿԱՆ ՀԱՄԱԼՍԱՐԱՆ

YEREVAN STATE UNIVERSITY

ЕРЕВАНСКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ

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**Yerevan State University**  
**New syllabus – Haematology**

**12 weeks x 2 hours lecture + 6 weeks x2 hours laboratory practical / tutorial**

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	<b>Course/Module Title</b>	<b>Haematology</b>
	<b>Course/Module Type</b>	Faculty of Biology, Dept.of Human &Animal Physiology; BSc Haematology (Life sciences)
	<b>Lecturer/Lecturers</b>	<p><b>Susanna Sahakyan</b>, PhD, Associate Professor, Dept. of Human &amp;Animal Physiology, YSU;  e-mail: <a href="mailto:sus_sah@yahoo.com">sus_sah@yahoo.com</a>  <b>Anahit Arakelyan</b>, PhD, Head Of the Dept. of Human &amp; Animal Physiology, YSU;  e-mail:<a href="mailto:anahit_arakelian@yahoo.com">anahit_arakelian@yahoo.com</a></p>
	<b>Course/Module Code</b>	<b>B01/04</b>
	<b>Course/Module Aims</b>	<p><b>The aims of this module are as follows:</b></p> <ul style="list-style-type: none"> <li>to build the basic knowledge of normal and selected abnormalities in haematology and how of all aspects of the cellular and other related diagnostic tests;</li> </ul>







4	<p>Haemolytic anaemias (Lecture handouts provided by the authors + suggested literature)</p> <p>Inherited</p> <ul style="list-style-type: none"> <li>• Membrane disorders eg spherocytosis</li> <li>• Enzymopathies eg G6PD deficiency</li> </ul> <p>Acquired</p> <ul style="list-style-type: none"> <li>• Immune haemolysis</li> <li>• Non-immune haemolysis</li> </ul>	<p>Blood/marrow morphology in disease</p> <ul style="list-style-type: none"> <li>• Red cell abnormalities in different types of anaemia</li> <li>• White cell abnormalities in different types of leukaemia</li> </ul> <p>(lab work handouts provided by the authors + suggested literature)</p>
5	<p>Genetic disorders of haemoglobin (Lecture handouts provided by the authors + suggested literature)</p> <ul style="list-style-type: none"> <li>• Thalassaemia syndromes</li> <li>• Structural haemoglobinopathies</li> </ul>	<p>Coagulation screen</p> <ul style="list-style-type: none"> <li>• Prothrombin time (PT)</li> <li>• Activated partial thromboplastin time (APTT)</li> <li>• Platelet count</li> </ul> <p>(lab work handouts provided by the authors + suggested literature)</p>
6	<p>Anaemia due to bone marrow failure (Lecture handouts provided by the authors + suggested literature)</p> <ul style="list-style-type: none"> <li>• Aplastic anaemia</li> </ul> <p>White cells</p> <ul style="list-style-type: none"> <li>• Normal function</li> <li>• Non-leukaemic disorders, for example changes seen in different type of infection (bacterial, viral, parasites)</li> </ul>	<p>Blood grouping</p> <ul style="list-style-type: none"> <li>• ABO</li> <li>• Rh</li> </ul> <p>Cross matching (lab work handouts provided by the authors + suggested literature)</p>
7	<p>Myeloid malignancies (Lecture handouts provided by the authors + suggested literature)</p> <ul style="list-style-type: none"> <li>• AML</li> <li>• CML</li> <li>• Myeloproliferative disorders</li> <li>• Myelodysplastic disorders</li> </ul>	
8	<p>Lymphoid malignancies (Lecture handouts provided by the authors + suggested literature)</p> <ul style="list-style-type: none"> <li>• ALL</li> <li>• CLL</li> <li>• Hodgkins lymphoma</li> <li>• Non-Hodgkins lymphoma</li> </ul>	

	<ul style="list-style-type: none"> <li>• Myeloma</li> </ul>	
9	<p>Haemostasis(Lecture handoutsprovided by the authors + suggested literature)</p> <ul style="list-style-type: none"> <li>• Components</li> <li>• Mechanisms, including regulatory / anticoagulant systems</li> </ul>	
10	<p>Disorders of haemostasis (Inherited and Acquired)(Lecture handoutsprovided by the authors + suggested literature)</p> <ul style="list-style-type: none"> <li>• Bleeding disorders</li> <li>• Thrombotic disorders (including thrombophilia)</li> </ul>	
11.	<p>Transfusion Science – Immunohaematology(Lecture handoutsprovided by the authors + suggested literature)</p> <ul style="list-style-type: none"> <li>• ABO, Rh and other blood group systems</li> <li>• Clinical importance</li> <li>• Pre-transfusion testing</li> </ul>	
12.	<p>Transfusion Science – clinical aspects(Lecture handoutsprovided by the authors + suggested literature)</p> <ul style="list-style-type: none"> <li>• Donor selection</li> <li>• Collection storage and testing of donated blood</li> <li>• Hazards of transfusion</li> </ul>	

Vice-rector on Educational Affairs



Aleksandr Grigoryan

Dean Faculty of Biology



Emil Gevorgyan

