

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
HAEMATOTOLOGY of CARDIOPULMONARY BYPASS	PRFY1112520	Fall Semester	2+0	2	6
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Second Cycle (Master's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Prof.Dr. Halil TÜRKOĞLU				
<b>Name of Lecturer(s)</b>	Prof.Dr. Korhan ERKANLI				
<b>Assistant(s)</b>					
<b>Aim</b>	Knowledge to Perfusionist students about Cardiopulmonary bypass and Haematology				
<b>Course Content</b>	This course contains; 1-Blood components,2-Endotel cell functions,3-Red cell function,4-White cell functions,5-Platelet functions,6-Blood plasma and functions,7-Blood proteins,8-Blood gases and evaluation,9-Coagulations and fibrinolysis tests,10-Coagulation factors and abnormalities,11-Anticoagulants,12-Atherosclerosis and mechanism,13-Approach to risks of thrombosis,14-Cardiac injury markers and clinical applications.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
1-Blood components and functions					
2- Endotel cell definition and functions					
3-White blood cell, red blood cell and platelet definitions and functions					
4-Blood plasma definition and functions					
5-Atherosclerosis definition and mechanism					
6-Coagulation and fibrinolysis, definition, interactions					
7-Risks of thrombosis and antithrombins					
8-Cardiac injury markers and clinical importance					
<b>Teaching Methods</b>					
<b>Assessment Methods</b>					
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	1-Blood components				
2	2-Endotel cell functions				
3	3-Red cell function				
4	4-White cell functions				
5	5-Platelet functions				
6	6-Blood plasma and functions				
7	7-Blood proteins				
8	8-Blood gases and evaluation				
9	9-Coagulations and fibrinolysis tests				
10	10-Coagulation factors and abnormalities				
11	11-Anticoagulants				
12	12-Atherosclerosis and mechanism				
13	13-Approach to risks of thrombosis				
14	14-Cardiac injury markers and clinical applications				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		50			
General Exam		50			
<b>Resources</b>					
lesson notes from Prof.Halil Türkoğlu,M.D.,Prof.Atıf Akcevin, M.D, Assc.Prof.Tijen Alkan BozkayaKirklin - Cardiac surgery Textbook, Perfusion Textbook (Avaliable from Dept. of Cardiovascular surgery)					