TTEE I - CARDIOVASCULAR SYSTEM
DISTRIBUTION of LECTURE HOURS
September 17 - October 26, 2018
COMMITTEE DURATION: 6 WEEKS

		THEORETICAL	PRACTICAL	TOTAL
MED 203	**BASIC MEDICAL SCIENCES II**	**108**	**27**	**135**
	DISCIPLINE			
	ANATOMY	14	2Grx4H	18
	BIOCHEMISTRY	12	3Grx2H	14
	BIOPHYSICS	10	0	10
	BIOSTATISTICS	2	0	2
	HISTOLOGY & EMBRYOLOGY	11	2Grx5H	16
	IMMUNOLOGY	3	0	3
	MEDICAL BIOLOGY	4	0	4
	MEDICAL MICROBIOLOGY	9	4GrX3H	12
	PATHOLOGY	7	0	7
	PHYSIOLOGY	34	3Grx10H	44
	SCIENTIFIC PROJECTS-II	2	4GrX3H	5

MED 202	**INTRODUCTION TO CLINICAL PRACTICE- II**	4GrX 1H	4GrX 2H	3

Coordination Committee	**Head**	Bayram YILMAZ, PhD. Prof.
	Secretary	Alev CUMBUL, PhD. Assist. Prof.
	Member	Mehtap KAÇAR, MD. PhD. Assoc. Prof.
	Member	Akif MAHARRAMOV, PhD. Assist. Prof.

COMMITTEE I - CARDIOVASCULAR SYSTEM
LECTURERS

MED 203 BASIC MEDICAL SCIENCES II	
DISCIPLINE	**LECTURERS**
ANATOMY	ERDEM SÖZTUTAR, MD. Assist. Prof. Aikaterini PANTELİ, MD. Lecturer. LAB: Edibe BİLİŞLİ, DVM LAB: Zeynep Büşra ODABAŞ, DMD
BIOCHEMISTRY	İnci ÖZDEN, PhD Prof. LAB: Jale ÇOBAN, MD Prof. LAB: Müge KOPUZ, PhD.
BIOPHYSICS	Akif MAHARRAMOV, PhD Assist. Prof. Bilge GÜVENÇ TUNA, PhD Assist. Prof.
BIOSTATISTICS	E. Çiğdem ALTUNOK, PhD Assist. Prof.
HISTOLOGY & EMBRYOLOGY	Aylin YABA UÇAR, PhD Assoc. Prof. Alev CUMBUL, PhD Assist. Prof.
IMMUNOLOGY	Gülderen YANIKKAYA DEMİREL, MD PhD Assoc. Prof.
MEDICAL BIOLOGY	Turgay İSBİR, PhD Prof. Soner DOĞAN, PhD Assoc. Prof. Deniz KIRAÇ, PhD Assoc. Prof.
MEDICAL MICROBIOLOGY	İ. Çağatay ACUNER Assoc. Prof Microbiology Lecturer
PATHOLOGY	Aydın SAV, MD. Prof.
PHYSIOLOGY	Bayram YILMAZ, PhD Prof. Mehtap KAÇAR, MD. PhD. Assoc. Prof . Burcu GEMİCİ BAŞOL, PhD. Assoc. Prof.
SCIENTIFIC PROJECTS-II	Gülderen YANIKKAYA DEMİREL, MD. PhD. Assoc. Prof.

MED 202 INTRODUCTION TO CLINICAL PRACTICE II	
DISCIPLINE	**LECTURERS**
CLINICAL SKILLS LAB	Özlem TANRIÖVER, MD. MPH. Assoc. Prof. A. Arzu AKALIN, MD. Assist. Prof. Serdar ÖZDEMİR, MD. PhD. Assist. Prof.

COMMITTEE I - CARDIOVASCULAR SYSTEM
AIM and LEARNING OBJECTIVES

AIMS

1. To convey knowledge about biophysical, biological, anatomical, embryological, histological, physiological and biochemical properties of cardiovascular system,
2. To convey knowledge on hemodynamics of cardiovascular system,
3. To convey information about electrical activity and functional activity of heart by defining all basic parameters,
4. To convey information about cardiovascular system anatomy
5. To convey basic, general knowledge about immunology,
6. To convey basic, general knowledge about microbiology and information about the structural/biological features and pathogenesis of fungi,
7. To convey basic knowledge about biostatistics.

LEARNING OBJECTIVES

At the end of this committee, student should be able to:

1.0. For cardiovascular systems;
   1.1. explain biophysical changes,
   1.2. associate with the clinical reflections.
2.0. For cardiovascular system;
   2.1. explain biological characteristics of the system,
   2.2. associate with the clinical reflections.
3.0. For cardiovascular system;
   3.1. describe their anatomy,
   3.2. associate with adjacent tissues and organs,
   3.3. explain their functional and clinical reflections..
4.0. For thorax and diaphragm
   4.1. describe their anatomy,
   4.2. associate with adjacent tissue and organs,
   4.3. explain their functional and clinical reflections.
5.0. For cardiovascular system;
   5.1. explain developmental stages,
   5.2. list embryological origins of organs,
   5.3. associate the relation between major birth abnormalities and developmental process.
6.0. list lymphatic organs of cardiovascular system and histological properties of blood.
7.0. explain hemodynamics of cardiovascular system and electrical activity of heart by biophysical mechanisms.
8.0. describe the structure, functions, synthesis and degradation of hemoglobin.
9.0. describe erythrocyte-specific metabolisms.
10.0. describe formation, differentiation and functions of blood cells.
11.0. describe physiopathology of diseases, such as anemia, leukemia, hemophilia.
12.0. describe heart rhythm, cardiac output and cardiac cycle.
13.0. describe nervous (autonomous) control of cardiovascular system.
14.0. explain functions of cardiovascular system.
15.0. explain functions and dynamics of circulatory system.
16.0. explain measurements of hematocrit, blood group analysis, blood pressure and ECG methods.

17.0. For immune system;
    17.1. explain development and differentiation of immune cells,
    17.2. relate changes with diseases,
    17.3. describe the properties of immune response.
18.0. For hemodynamic changes;
    18.1. explain mechanisms of development,
    18.2. describe mechanisms for cellular damage,
    18.3. describe pathologies occurring due to cell and tissue damage.
19.0. describe the factors that determine pathology as a basic science.
20.0. explain the factors of tissue damage
21.0. describe the pathological consequences and interactions of cellular injury on the cell and tissue morphology with examples.
22.0. describe examples of pathological consequences of immune response.
23.0. explain the factors that affect the clinical course and outcome of cell injury
24.0. list disorders resulting from hemodynamic changes.
25.0. describe how to write a scientific project proposal
26.0. prepare a research project draft.
27.0. count biostatistical sampling methods.
28.0. count significance tests in biostatistics.
29.0. For human flora;
    29.1 describe the flora,
    29.2 explain its relation to clinical conditions.
30.0. Describe the structural/biological features and pathogenesis of fungi.
31.0. explain case scenario related basic medical science topics in a clinical context.

COMMITTEE I - CARDIOVASCULAR SYSTEM
COMMITTEE I ASSESSMENT MATRIX

LEARNING OBJECTIVES	DISCIPLINE	LECTURER/ INSTRUCTOR	DISTRUBITION of MCQs			
			CE	FE	IE	TOTAL
3.0-4.0	ANATOMY	Dr. E. Söztutar Dr. A. Panteli	**15**	**5**	**5**	**25**
8.0-10.0	BIOCHEMISTRY	Dr. İ. Özden	**12**	**4**	**4**	**20**
1.0	BIOPHYSICS	Dr. A. Maharramov	**10**	**4**	**4**	**18**
27.0-28.0	BIOSTATISTICS	Dr. Ç. Altunok	**1**	**1**	**1**	**3**
5.0-6.0	HISTOLOGY & EMBRYOLOGY	Dr. A. Cumbul Dr. A. Yaba Uçar	**12**	**4**	**4**	**20**
17.0	IMMUNOLOGY	Dr. G. Yanıkkaya Demirel	**2**	**1**	**1**	**4**
2.0	MEDICAL BIOLOGY	Dr. T. İsbir Dr. D. Kıraç	**3**	**1**	**1**	**5**
29.0-30.0	MEDICAL MICROBIOLOGY	Dr. Ç. Acuner Microbiology Lecturer	**7**	**3**	**3**	**13**
18.0-24.0	PATHOLOGY	Dr. A. Sav	**7**	**3**	**3**	**13**
7.0-16.0	PHYSIOLOGY	Dr. B. Yılmaz Dr. M. Kaçar Dr. B. Gemici Başol	**30**	**12**	**12**	**54**
29	PBL		**1**	**0**	**0**	1
		TOTAL	**100**	**38/200#**	**38/200#**	**176**

LEARNING OBJECTIVES	DISCIPLINE	DISTRUBITION of LAB ASSESSMENT POINTS
		LPE
3.0-4.0	ANATOMY	**30**
8.0-10.0	BIOCHEMISTRY	**5**
5.0-6.0	HISTOLOGY & EMBRYOLOGY	**10**
29.0-30.0	MEDICAL MICROBIOLOGY	**15**
7.0-16.0	PHYSIOLOGY	**40**
	TOTAL	**100**

Total number of MCQs are 100, equal to100 pts. Each question has 1 pt.).
Total value of LPE is equal to 100 points

Committee Score (CS)= 95% of [90% CE (MCQ and SbMCQ) + 10% (LPE)]+5% of PBL-P

MCQ: Multiple Choice Questions
SbMCQ: Scienario-based Multiple Choice Questions
LPE: Laboratory Practical Exam
CE: Committee Exam
CS: Committee Score
FE: Final Exam
ICE: Incomplete Exam
Pts.: Points
In FE and ICE**, 34** out of 200 FE and ICE MCQs and SbMCQ will be from Committee I (Each question is 0.5 pt, equal value)

COMMITTEE I - CARDIOVASCULAR SYSTEM
I. WEEK / 17– 21 Sep 2018

	Monday 17-Sep-2018	Tuesday 18-Sep-2018	Wednesday 19-Sep-2018	Thursday 20-Sep-2018	Friday 21-Sep-2018
09.00- 09.50	**Introductory Session** Introduction to Phase II Phase II Coordination Committee	**Lecture** Introduction to Medical Microbiology *İ. Çağatay Acuner*	**Lecture** Porphin, Porphyrins, Heme, Hemoglobin, Structure of Hemoglobin *İnci Özden*	**Laboratory / Microbiology** Principles and Procedures of Laboratory Safety *Microbiology Instructors* **Group A** / **Group B,C,D IL**	**Lecture** Functions of Hemoglobin *İnci Özden*
10.00- 10.50	**PBL Session**	**Lecture** Sterilization and Disinfection *İ. Çağatay Acuner*	**Lecture** Porphin, Porphyrins, Heme, Hemoglobin, Structure of Hemoglobin *İnci Özden*	**Group B** / **Group A,C,D IL**	**Lecture** Functions of Hemoglobin *İnci Özden*
11.00- 11.50		**Lecture** Thoracic Cavity & Mediastinum *Aikaterini Panteli*	**Lecture** Introduction to Cardiovascular System *Aikaterini Panteli*	**Group C** / **Group A,B,D IL**	**Lecture / Scientific Project II** How to write a scientific project proposal *Gülderen Yanıkkaya Demirel*
12.00- 12.50		Lecture Thoracic Cavity & Mediastinum *Aikaterini Panteli*	**Lecture** Pericardium and Outer Surface of the Heart *Aikaterini Panteli*	**Group D** / **Group A,B,C IL**	**Lecture / Scientific Project II** How to write a scientific project proposal *Gülderen Yanıkkaya Demirel*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00- 14.50	Introduction to Committee I Secretary of Committee	**Lecture** Functions of blood *Burcu Gemici Başol*	**Lecture** Histology of Circulatory Systems; Gn Spec. Arteries *Aylin Yaba Uçar*	**Lecture** Chambers of the Heart *Aikaterini Panteli*	**Laboratory / Anatomy** Pericardium, Outer Surface and Chambers of the Heart *Aikaterini Panteli* **Group B** / **Group A I.L**
15.00- 15.50	**Independent Learning**	**Lecture** Leukocytes *Burcu Gemici Başol*	**Lecture** Histology of Circulatory Systems; Capillaries & Veins *Aylin Yaba Uçar*	**Lecture** Chambers of the Heart *Aikaterini Panteli*	**Group B I.L** / **Group A**
16.00- 16.50		**Lecture** Leukocytes *Burcu Gemici Başol*	**Laboratory / Anatomy** Thoracic Wall, Cavity and Mediastinum *Aikaterini Panteli* **Group A** / **Group B IL**	**Independent Learning**	**Independent Learning**
17.00-17.50		**Independent Learning**	**Group A IL** / Group B		**Independent Learning**

IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinators.

COMMITTEE I - CARDIOVASCULAR SYSTEM
II. WEEK / 24 – 28 Sep 2018

<table>
<tr><th></th><th>Monday
24-Sep-2018</th><th>Tuesday
25-Sep-2018</th><th>Wednesday
26-Sep-2018</th><th colspan="2">Thursday
27-Sep-2018</th><th>Friday
28-Sep-2018</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="3">PBL Session</td><td>Lecture
Coronary arteries, Cardiac Veins, and Cardiac Conduction System
Aikaterini Panteli</td><td>Lecture
Synthesis of Hemoglobin, Disorders Concerning Synthesis of Hemoglobin
İnci Özden</td><td>Laboratory / Microbiology
Collection, Storage and Transport of Specimens
Microbiology Instructors
Group D</td><td rowspan="2">Laboratory /Physiology
Hematocrit Determination and Blood Typing & Bleeding Time
Mehtap Kaçar
Group A</td><td>Lecture
Adaptations
Aydın Sav</td></tr>
<tr><td>10.00- 10.50</td><td>Lecture
Coronary arteries, Cardiac Veins, and Cardiac Conduction System
Aikaterini Panteli</td><td>Lecture
Synthesis of Hemoglobin, Disorders Concerning Synthesis of Hemoglobin
İnci Özden</td><td>Group C</td><td>Lecture
Adaptations
Aydın Sav</td></tr>
<tr><td>11.00- 11.50</td><td>Lecture
Erythrocyte
Burcu Gemici Başol</td><td>Lecture
Introduction to Mycology
İ. Çağatay Acuner</td><td>Group B</td><td rowspan="2">Group C</td><td>Lecture
Regulation of Cardiac Function
Bayram Yılmaz & Mehtap Kaçar</td></tr>
<tr><td>12.00- 12.50</td><td>PBL Panel</td><td>Lecture
Erythrocytes
Burcu Gemici Başol</td><td>Lecture
Fungal Pathogenesis
İ. Çağatay Acuner</td><td>Group A</td><td>Lecture
Regulation of Cardiac Function
Bayram Yılmaz & Mehtap Kaçar</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td colspan="2">Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td>Lecture
Introduction to Bioelectromagnetics Magnetic Field
Akif Maharramov</td><td>Lecture
Great Vessels of the Heart
Aikaterini Panteli</td><td>Lecture
Platelets and Coagulation
Bayram Yılmaz & Mehtap Kaçar</td><td colspan="2">Lecture
Introduction to Pathology
Aydın Sav</td><td rowspan="3">ICP / CSL: Hand Washing & Wearing Sterile Gloves
Özlem Tanrıöver/ Serdar Özdemir
Group A

Group D SP SGS

Laboratory / Physiology
Hematocrit Determination and Blood Typing & Bleeding Time
Bayram Yılmaz & Mehtap Kaçar
Group B</td></tr>
<tr><td>15.00- 15.50</td><td>Lecture
Introduction to Bioelectromagnetics Electric Field
Akif Maharramov</td><td>Lecture
Major Vessels of the Body
Aikaterini Panteli</td><td>Lecture
Blood Types and Transfusion Reactions
Bayram Yılmaz & Mehtap Kaçar</td><td colspan="2">Lecture
Lymphocytes and the Immune System
Bayram Yılmaz & Mehtap Kaçar</td></tr>
<tr><td>16.00- 16.50</td><td>Lecture
Leucocyte circulation and migration into tissue
Gülderen Yanıkkaya Demirel</td><td rowspan="2">Independent Learning</td><td>Laboratory / Anatomy
Coronary Arteries, Cardiac Veins, Cardiac Conduction System, Great Vessels of Heart and Body
Aikaterini Panteli</td><td colspan="2" rowspan="2">Lecture
Lymphocytes and the Immune System
Bayram Yılmaz & Mehtap Kaçar</td></tr>
<tr><td>17.00-17.50</td><td>Independent Learning</td><td>Group B, I.L</td><td>Group A</td><td colspan="2">Independent Learning</td><td colspan="3">Independent Learning</td></tr>
</table>

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COMMITTEE I - CARDIOVASCULAR SYSTEM
III. WEEK / 01 – 05 Oct 2018

	Monday 01-Oct-2018	Tuesday 02-Oct-2018	Wednesday 03-Oct-2087	Thursday 04-Oct-2018	Friday 05-Oct-2018
09.00-09.50	**Lecture** Rhythmical Excitation of the Heart *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Degradation of Hemoglobin *İnci Özden*	**Lecture** Development of Circulatory System; Endocardial Tube Formation & Looping *Alev Cumbul*	**Laboratory / Histology** Histology of Lymph Organs *Alev Cumbul & Aylin Yaba Uçar* **Group A** / **Group B I.L**	**Lecture** Microcirculation and the Lymphatic System *Bayram Yılmaz & Mehtap Kaçar*
10.00-10.50	**Lecture** Rhythmical Excitation of the Heart *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Degradation of Hemoglobin *İnci Özden*	**Lecture** Development of Circulatory Systems; Septation *Alev Cumbul*		**Lecture** Capillary Fluid Exchange, Interstitial Fluid, and Lymph Flow *Bayram Yılmaz & Mehtap Kaçar*
11.00-11.50	**Lecture** Introduction to Lymphatic System *Aikaterini Panteli*	**Lecture** Principles of Electrocardiography *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Principles of Hemodynamics *Bayram Yılmaz & Burcu Gemici Başol*	**Group B** / **Group A I.L**	**Lecture** Coronary Circulation *Mehtap Kaçar*
12.00-12.50	**Lecture** Circulation of Lymph *Aikaterini Panteli*	**Lecture** Electrocardiographic Interpretation of Cardiac Abnormalities *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Principles of Hemodynamics *Bayram Yılmaz & Burcu Gemici Başol*		**Lecture** Biophysics of Cardiac Muscle Contraction *Akif Maharramov*
13.00-13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00-14.50	**Lecture** Histology of Lymph Organs; General Aspects, Thymus and Lymph Node *Aylin Yaba Uçar*	**Lecture** Superficial/Subcutaneous Mycosis *İ. Çağatay Acuner*	**Lecture** Immunology of heart and vessels *Gülderen Yanıkkaya Demirel*	**Lecture** Cardiac Arrhythmias *Bayram Yılmaz & Mehtap Kaçar*	**ICP** / CSL: Hand Washing & Wearing Sterile Gloves *Özlem Tanrıöver/ Serdar Özdemir* **Group B** / **Group A SP SGS** / **Group C, D I.L**
15.00-15.50	**Lecture** Histology of Lymph Organs; Spleen and MALT (Tonsils) *Aylin Yaba Uçar*	**Lecture** Systemic Mycoses *İ. Çağatay Acuner*	**Lecture** Immunology of heart and vessels *Gülderen Yanıkkaya Demirel*	**Lecture** Cardiac Arrhythmias *Bayram Yılmaz & Mehtap Kaçar*	
16.00-16.50	**Lecture** Ischemia and Infarction *Aydın Sav*	Lymphatic System **Laboratory / Anatomy** *Aikaterini Panteli* **Group B** / **Group A I.L**	**Independent Learning**	**Lecture** Biophysics of Hemodynamics *Akif Maharramov*	
17.00-17.50	**Lecture** Ischemia and Infarction *Aydın Sav*	**Group B I.L** / **Group A**		**Lecture** Measurements of Different Hemodynamic Parameters *Akif Maharramov*	**Independent Learning**

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COMMITTEE I - CARDIOVASCULAR SYSTEM
IV. WEEK / 08 – 12 Oct 2018

	Monday 08-Oct-2018		Tuesday 09-Oct-2018		Wednesday 10-Oct-2018	Thursday 11-Oct-2018		Friday 12-Oct-2018		
09.00- 09.50	**Lecture** Congenital Heart Anomalies *Alev Cumbul*		**Lecture** Disorders Concerning Hemoglobin Metabolism *İnci Özden*		**Lecture** Regulation of Blood Pressure *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory / Microbiology** Mycology *Microbiology Instructors* **Group D**	**Laboratory / Physiology** ECG-II *Bayram Yılmaz & Mehtap Kaçar* **Group A**	**Lecture** Heart Valves and Heart Sounds *Bayram Yılmaz & Mehtap Kaçar*		
10.00- 10.50	**Lecture** Development of Circulatory Systems; Arteries and Anomalies *Alev Cumbul*		**Lecture** Disorders Concerning Hemoglobin Metabolism *İnci Özden*		**Lecture** Regulation of Blood Pressure *Bayram Yılmaz & Mehtap Kaçar*	**Group C**		**Lecture** Heart Valves and Heart Sounds *Bayram Yılmaz & Mehtap Kaçar*		
11.00- 11.50	**Lecture** Vascular Distensibility and Functions of Arterial and Venous Systems *Bayram Yılmaz & Mehtap Kaçar*		**Lecture** Local and Humoral Control of Blood Flow by the Tissues *Bayram Yılmaz & Mehtap Kaçar*		**Lecture** Hyperemia & Congestion *Aydın Sav*	**Group B**	**Group C**	**Lecture** Blood Coagulation, Primary Hemostasis *İnci Özden*		
12.00- 12.50	**Lecture** Vascular Distensibility and Functions of Arterial and Venous Systems *Bayram Yılmaz & Mehtap Kaçar*		**Lecture** Local and Humoral Control of Blood Flow by the Tissues *Bayram Yılmaz & Mehtap Kaçar*		**Lecture** Hyperemia & Congestion *Aydın Sav*	**Group A**		**Lecture** Secondary hemostasis, Procoagulation, Anticoagulation, Fibrinolysis *İnci Özden*		
13.00- 13.50	**Lunch Break**		**Lunch Break**		**Lunch Break**	**Lunch Break**		**Lunch Break**		
14.00- 14.50	**Laboratory/ Physiology** ECG I *Bayram Yılmaz & Mehtap Kaçar* **Group A**	**Laboratory / Biochemistry** Peripheral Blood Smear *Jale Çoban & Müge Kopuz* **Group B**	**Lecture** Introduction to Bioelectromagnetics: Electromagnetic Field *Akif Maharramov*		**Lecture** Opportunistic Mycoses-I *İ. Çağatay Acuner*	**Lecture** Biophysics of Blood Pressure *Akif Maharramov*		**ICP** / CSL: Hand Washing & Wearing Sterile Gloves *Arzu Akalın/ Serdar Özdemir* **Group C**	**Group D SP SGS**	**Group A, B I.L**
15.00- 15.50			**Lecture** Bioelectromagnetic Effects on the Heart *Akif Maharramov*		**Lecture** Opportunistic Mycoses-II *İ. Çağatay Acuner*	**Lecture** Diagnostic Methods in Mycology *İ. Çağatay Acuner*				
16.00- 16.50	**Group C**	**Group A**	**Laboratory/ Physiology** ECG I *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory / Biochemistry** Peripheral Blood Smear *Jale Çoban & Müge Kopuz*	**Lecture** Oxygen, Oxidative Stress, NO, Redox Disequilibrium in the Failing Heart and Cardiovascular System *Deniz Kıraç*	**Laboratory / Physiology** ECG-II *Bayram Yılmaz & Mehtap Kaçar* **Group B**	**Group A, C I.L**			
17.00-17.50			**Group B**	**Group C**	**Lecture** Oxygen, Oxidative Stress, NO, Redox Disequilibrium in the Failing Heart and Cardiovascular System *Deniz Kıraç*			**Independent Learning**		

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COMMITTEE I - CARDIOVASCULAR SYSTEM
V. WEEK / 15 – 19 Oct 2018

	Monday 15-Oct-2018	Tuesday 16-Oct-2018	Wednesday 17-Oct-2018	Thursday 18-Oct-2018	Friday 19-Oct-2018
09.00- 09.50	**Lecture** Development of Head; Splanchocranium, Neurocranium *Aylin Yaba Uçar*	**Lecture** Fetal circulation *Aikaterini Panteli*	**Lecture** Cardiac Failure *Bayram Yılmaz & Mehtap Kaçar*	**Laboratory / Histology** Histology of the Cardiovascular System *Alev Cumbul & Aylin Yaba Uçar* **Group B** / **Laboratory / Physiology** Heart Sounds *Bayram Yılmaz & Mehtap Kaçar* **Group A**	**Lecture** Sampling, Data Collection and Data Processing *E. Çiğdem Altunok*
10.00- 10.50	**Lecture** Development of Neck; Pharyngeal Arches and Anomalies *Aylin Yaba Uçar*	**Lecture** Review of the Cardiovascular System *Aikaterini Panteli*	**Lecture** Circulatory Shock and Physiology of Its Treatment *Bayram Yılmaz & Mehtap Kaçar*		**Lecture** Statistical Decision Theory, Test of Hypothesis and Significance *E. Çiğdem Altunok*
11.00- 11.50	**Lecture** Nervous Regulation of the Circulation *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Hemorheology *Akif Maharramov*	**Lecture** Development of Circulatory Systems; Veins and Anomalies *Alev Cumbul*	**Group A** / **Group C**	**Lecture** Biological Basis of Cardiovascular Diseases; Death Begets Failure in the Heart *Turgay İsbir*
12.00- 12.50	**Lecture** Nervous Regulation of the Circulation *Bayram Yılmaz & Mehtap Kaçar*	**Lecture** Hemorheology *Akif Maharramov*	**Invited Speaker**		**Lecture** Biological Basis of Cardiovascular Diseases; Death Begets Failure in the Heart *Turgay İsbir*
13.00- 13.50	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**	**Lunch Break**
14.00-14.50	**Laboratory / Physiology** Blood Pressure *Bayram Yılmaz & Mehtap Kaçar* **Group A** / **Group B** / **Group C I.L**	**Laboratory / Physiology** Blood Pressure *Bayram Yılmaz & Mehtap Kaçar* **Group B** / **Group B, C I.L**	**Independent Learning**	**Laboratory / Physiology** Heart Sounds *Bayram Yılmaz & Mehtap Kaçar* **Group B** / **Group A, C I.L**	**ICP** / CSL: **ICP** Hand Washing & Wearing Sterile Gloves *Arzu Akalın/ Serdar Özdemir* **Group D** / **Group C SP SGS**
15.00- 15.50					
16.00- 16.50	**Group C** / **Group A** / **Group B I.L**	**Independent Learning**		**Laboratory / Histology Review Session** *Alev Cumbul & Aylin Yaba Uçar* **Group A** / **Group B I.L**	
17.00-17.50				**Group A I.L** / **Group B**	**Independent Learning**

IL: Independent Learning, CSL: Clinical Skills Learning, Student groups for laboratory/practice sessions will be announced by coordinators.

COMMITTEE I - CARDIOVASCULAR SYSTEM
VII. WEEK / 22 – 26 Oct 2018

<table>
<tr><th></th><th>Monday
22-Oct-2018</th><th>Tuesday
23-Oct-2018</th><th>Wednesday
24-Oct-2018</th><th>Thursday
25-Oct-2018</th><th>Friday
26-Oct-2018</th></tr>
<tr><td>09.00- 09.50</td><td rowspan="4">Assessment Session
(Practical Exam)</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td>Independent Learning</td></tr>
<tr><td>10.00- 10.50</td><td rowspan="3">Assessment Session
Committee I
(MCQ)</td></tr>
<tr><td>11.00- 11.50</td></tr>
<tr><td>12.00- 12.50</td></tr>
<tr><td>13.00- 13.50</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td><td>Lunch Break</td></tr>
<tr><td>14.00- 14.50</td><td rowspan="4">Assessment Session
(Practical Exam)</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td rowspan="4">Independent Learning</td><td rowspan="2">Program Evaluation Session
Review of the Exam Questions,
Evaluation of the Committee I Program
Secretary of Committee</td></tr>
<tr><td>15.00- 15.50</td></tr>
<tr><td>16.00- 16.50</td><td rowspan="2">Independent Learning</td></tr>
<tr><td>17.00-17.50</td></tr>
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