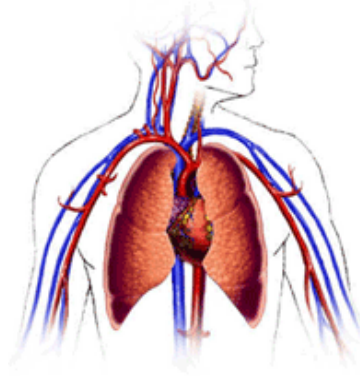


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**MARMARA UNIVERSITY – EASTERN MEDITERRANEAN  
UNIVERSITY INTERNATIONAL MEDICAL SCHOOL**



**CARDIOVASCULAR SYSTEM AND RELATED DISORDERS  
YEAR 3 COURSE 1  
September 2<sup>nd</sup>, 2024 – October 16<sup>th</sup>, 2024**

**Year 3 Coordinators**

Prof. Arzu Akşit İLKİ & Prof. Pinar Mega TİBER & Assist. Prof. Masoud AFSHANI

**PBL Module Coordinator**

Prof. Rezzan GÜLHAN & Assist. Prof. Masoud AFSHANI

**Coordinator of Multidisciplinary Students' Lab.**

Assoc. Prof. M. Burak AKSU & Assoc. Prof. Ergül Mutlu ALTUNDAĞ

**Coordinator of Clinical Skill Lab.**

Prof. Pemra ÜNALAN & Assist. Prof. Bülent SEZGİN

**Coordinator of ICS Res. Lab.**

Prof. Pemra ÜNALAN & Assist. Prof. İlke AKÇAY

**Vice-Chief Coordinators**

**Assessment**

Assist. Prof. Cevdet NACAR & Assist. Prof. H. Eren SAKALLI

**Student Affairs**

Assist. Prof. Can ERZİK

**Chief Coordinator**

Prof. Hasan R. YANANLI & Assoc. Prof. Amber EKER

**Coordinator of Medical Education Program  
Evaluation and Development Commission**

Prof. Harika ALPAY

**Coordinator of the Joint Program**

Prof. Süleyman Ümit ŞEHİRLİ

**Dean (EMU) (a)**

Assoc. Prof. Nilüfer GÜZOĞLU

**Dean (MU)**

Prof. Süleyman Ümit ŞEHİRLİ

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### LEARNING OUTCOMES / COMPETENCIES

- A. **Clinical Care: Qualified patient care and community oriented health care**
  - 1. Basic clinical skills
  - 2. The organization and management of the patient and the patient care
  - 3. The organization and the management of health care delivery services / system
  - 4. Health promotion and disease prevention
- B. **Medical Knowledge and Evidence-Based Medicine**
  - 5. Appropriate information retrieval and management skills
  - 6. The integration of knowledge, critical thinking and evidence-based decision making
  - 7. Scientific methods and basic research skills
- C. **Professional Attitudes and Values**
  - 8. Communication skills and effective communication with patients / patient relatives
  - 9. Interpersonal relationships and team working
  - 10. Ethical and professional values, responsibilities
  - 11. Individual, social and cultural values and responsibilities
  - 12. Reflective practice and continuing development
  - 13. Healthcare delivery systems, management and community oriented health care
  - 14. Education and counseling

### PHASE-1 LEARNING OBJECTIVES

- 1. Understanding the normal structures and functions of human body
- 2. Correlating the basic concepts and principles to each other that define health and disease; applying basic concepts and principles to health and disease conditions
- 3. Developing clinical problem solving, clinical reasoning and evaluation skills by integrating biomedical, clinical, social and humanities knowledge
- 4. Gaining basic clinical skills by applications in simulated settings.
- 5. Awareness of the professional values in health and disease processes (professional, individual, societal) and acquisition necessary related skills
- 6. Evaluating critically and synthesizing all the medical evidence and perform respecting scientific, professional and ethical values
- 7. Acquisition skills in reflective thinking and practicing, being open to continuous individual / professional development.

### PHASES – 1 THEMA/ORGAN SYSTEM-BASED COURSE PROGRAMS

Year 1, Course 1: Introduction to Cell and Cellular Replication

Year 1, Course 2: Cellular Metabolism and Transport

Year 1, Course 3: Development and Organization of Human Body

Year 1, Course 4: Introduction to Nervous System and Human Behavior

Year 2, Course 1: Cell and Tissue Injury I

Year 2, Course 2: Cell and Tissue Injury II

Year 2, Course 3: Hematopoietic System and Related Disorders

Year 2, Course 4: Musculoskeletal, Integumentary Systems and Related Disorders

Year 2, Course 5: Respiratory System and Related Disorders

### Year 3, Course 1: Cardiovascular System and Related Disorders

Year 3, Course 2: Gastrointestinal System, Metabolism and Related Disorders

Year 3, Course 3: Nervous System and Related Disorders

Year 3, Course 4: Growth, Development, Mental Health and Related Disorders

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<b>Year 3, Course 1: Cardiovascular System and Related Disorders</b>	
<b>CARDIOVASCULAR SYSTEM AND RELATED DISORDERS</b>	
<p style="text-align: center;"><b>AIM and LEARNING OBJECTIVES of COURSE</b></p> <p><b>Aim:</b> With an interdisciplinary approach, to learn about the morphology and functions of the cardiovascular system, about the principles of circulation and to correlate the pathophysiological mechanisms with the diseases of the cardiovascular system.</p> <p><b>Learning Objectives:</b> At the end of this course, third year students will,</p> <ul style="list-style-type: none"><li>○ To learn the morphology of the heart and the vessels</li><li>○ To describe the basic mechanisms of circulation</li><li>○ To define and discuss the factors impairing the normal function of the cardiovascular system and their pathological reflections on the occurrence of the diseases</li><li>○ To learn the major symptoms and signs of the cardiovascular diseases and the principles of therapeutic approaches</li><li>○ To learn the methods of the prevention from the cardiovascular diseases and its epidemiological importance as related with the mortality and morbidity in the population</li></ul>	
<p style="text-align: center;"><b>ASSESSMENT SYSTEM</b></p> <p><b>Module examination:</b> Written exam at the end of the course and performance during the module</p> <p><b>Practical examination:</b> Practical exams at the end of course</p> <p><b>Course examination:</b> Written exam at the end of course</p>	<p style="text-align: center;"><b>PROGRAM EVALUATION</b></p> <p>Evaluation at the end of the course, is done both orally and by using structured evaluation forms</p>
<b>DEPARTMENTS PARTICIPATING IN COURSE-3.1.</b>	
<ul style="list-style-type: none"><li>• Anatomy</li><li>• Biochemistry</li><li>• Biophysics</li><li>• Cardiology</li><li>• Clinical Pharmacology</li><li>• Family Medicine</li><li>• Histology and Embryology</li><li>• Nuclear Medicine</li><li>• Microbiology</li></ul>	<ul style="list-style-type: none"><li>• Pathology</li><li>• Pediatric Cardiology</li><li>• Physiology</li><li>• Public Health</li><li>• Radiology</li><li>• Medical Genetics</li></ul>
<b>LECTURERS / TUTORS</b>	
Alper Kepez, Assoc. Prof., Cardiology Alper Yıldırım, Assoc. Prof., Physiology Amber Eker, Assoc. Prof., Neurology Ahmet Akıcı, Prof., Clinical Pharmacology Ahmet Altuğ Çinçin, Assoc. Prof., Cardiology Banu Aydın Omay, Assoc. Prof., Biophysics Berfu Çerçi Öngün, Inst., Anatomy	Hüseyin Kemal Türköz, Assoc. Prof., Pathology İpek Erbarut, Assoc. Prof., Pathology Masoud Afshani, Assist. Prof., Histology and Embryology Mehmet Ali Söylemez, Lecturer of Medical Genetics Murat Sünbül, Assoc. Prof., Cardiology Mustafa Kürşat Tigen, Prof., Cardiology Nimet Emel Lüleci, Prof., Public Health

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Berna Terzioğlu Bebitoğlu, Prof., Pharmacology  
Berrak Yeğen, Prof., Physiology  
Beste Özben Sadıç, Prof., Cardiology  
Bülent Mutlu, Prof., Cardiology  
Cevdet Nacar, Assist. Professor of Biophysics  
Efe Soydemir, Assist. Professor of Radiology  
Emine Özerinç, , Inst., Turkish Language  
Erdi Sözen, Assoc. Prof., Biochemistry  
Figen Akalın, Prof., Pediatric Cardiology  
Koray Ak, Prof., Cardiovascular Surgery  
Halil Ataş, Assoc. Prof., Cardiology  
Halil Eren Sakallı, Assist. Prof., Pharmacology  
Halil Turgut Turoğlu, Prof., Nuclear Medicine  
Hatice Efehan, Assist. Prof., Anatomy  
Hızır Kurtel, Prof., Physiology  
Hülya Cabadak, Prof., Biophysics

Nurver Ülger, Prof., Microbiology  
Önder Şirikçi, Prof., Biochemistry  
Özlem Tuğçe Kaya, Assoc. Prof., Histology  
Özgür Kasımay, Prof., Physiology  
Pemra Ünal, Prof., Family Medicine  
Pınar Mega Tiber, Prof., Biophysics  
Saime Batirel, Assoc. Prof., Biochemistry  
Şule Çetinel, Prof., Histology and Embryology  
Ural Verimli, Prof., Anatomy  
Ülkü Sur Ünal, Assist. Prof., Family Medicine  
Yusuf Emre Gürel, Assoc. Prof., Cardiology  
Zafer Gören, Prof., Pharmacology  
Zeliha Leyla Cinel, Prof., Pathology

### READING / STUDYING MATERIALS

- Pocket Guide to ECG Diagnosis, Edward K.Chung, First edition, Blackwell Science.
- Chou's Electrocardiography in Clinical Practice, 6th edition, Surawicz, Kinilans, 2008, Saunders, Elsevier.
- Clinical Cardiology, Lange Medical Books, Melvin D. Cheitlin, Maurice Sokolow, Malcolm B. Mc Ilroy.
- Cardiac Imaging Secrets, Elsevier Neil J. Weissman MD, Gabriel A. Adelman MD, 2004.
- Clinical Electrocardiography, Ary L. Goldberger, Simplified Approach Mosby-Elsevier, 2008.
- Drugs for the Heart, Lionel H. Opie, Bernard J. Gersh 7th Edition, Saunders Elsevier.
- Current Diagnosis and Treatment in Cardiology, Michael Crawford Lange Medical Books, McGraw Hill, 2006.
- Clinical Skills, Bouchier and Morris, Saunders.
- Braunwald Heart Disease, 8th Edition, W. B. Saunders, Eugene Braunwald, Douglas P.Zipes, Peter Libby, 2012.
- Kardiyoloji, Editörler: İsfendiyar Candan, Derviş Oral, Ankara Üniversitesi, Tıp Fakültesi Yayınları.
- Klinik Kardiyoloji, Hasan Gök, Nobel Kitabevi, 2002.
- Lecture Notes on Cardiology, Huon H Gray, Keith H Dawkins, John M. Morgan, T. Simpson, 4th Edition Blackwell Science.
- Lecture Notes on Clinical Skills, Robert Turner, Roger Blackwood, 3rd Edition, Blackwell Science, 2003.
- Pathophysiology of Heart Disease, Leonard S. Lilly, Lea & Febiger, 2008.
- Manual of Cardiovascular Medicine, 3rd Edition, Brian P Griffin, Eric J. Topol, Lippincott Williams & Wilkins, 2004.
- Cardiovascular Diagnosis The Initial Examination, J. Willis Hurst Mosby Wolfe Medical Communication, 2004.
- Cardiac Drug Therapy, M. Gabriel Kahn, 6th Edition, Saunders.
- Handbook of Cardiovascular Emergencies, 2nd Edition, James W. Hoekstra, Lippincott Williams Wilkins.
- Hurst's The Heart, Manual of Cardiology, 10th Edition, Robert A. O'Rourke, Valentin Fuster, R.Wayne Alexander.
- Cardiovascular Physiology Lange Physiology Series, David E. Rohrman, Louis J. Heller, 6th Edition, 2006.
- A Pocket Guide to Physical Examination and History Taking, Barbara Bates J. B., Lippincott.
- Kardiyoloji Modern Semiyoloji, Prof. Dr. Dinçer Uçak, Nobel Kitabevi, 2003.
- A Colour Atlas of Physical Signs in Cardiovascular Disease, L. M. Shapiro, K. M. Fox Wolfe Medical Publication.
- Netter's Cardiology, Marschall S Runge, Magnus Ohman, Icon Learning Systems 2004.

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<b>SUMMARY OF THE COURSE 3.1. (MEDN 310)</b>			
<b>Discipline</b>	<b>Lecture &amp; Group Discussion</b>	<b>Multidisciplinary Lab. &amp; Clinical Skills Lab. Practice</b>	<b>Total</b>
Anatomy	4	1	5
Biochemistry	10		10
Biophysics	7		7
Cardiology	28		28
Cardiovascular Surgery	1		1
Clinical Pharmacology	12		12
Family Medicine	2		2
Histology and Embryology	5	2	7
Nuclear Medicine	1		1
Microbiology	1		1
Pathology	7	1	8
Pediatric Cardiology	5		5
Physiology	17	3	20
Public Health	1		1
Radiology	1		1
Medical Genetics	1		1
<b>Problem Based Learning (PBL) Module</b>	<b>10</b>		<b>10</b>
<b>Subtotal</b>	<b>113</b>	<b>7</b>	<b>120</b>
<b>ICS-3 BMP: Basic Medical Practice (MEDN361)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>ICS-3 CLS: Clinical Skills Lab. (MEDN362)</b>	<b>8</b>	<b>8</b>	<b>16</b>
<b>ICS-3 SRA: Student Research Activity (MEDN363)</b>	<b>4</b>	<b>1</b> (Mentor Meeting)	<b>5</b>
<b>Turkish for Medical Students – IV (TFMS301)</b>	<b>24</b>		<b>24</b>
<b>Turkish for Medical Students – IV (Interactive Session) (TFMS301)</b>	<b>2</b>		<b>2</b>
<b>Elective (UE-03)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL</b>	<b>151</b>	<b>16</b>	<b>167</b>

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		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	
<b>1<sup>st</sup> Week (02– 06 September, 2024)</b>				
	<b>Calendar Days</b>		<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>02 September</b>			
08:40-09:30	STUDY TIME			
09:40-10:30	STUDY TIME			
10:40-11:30	STUDY TIME			
11:40-12:30	STUDY TIME			
13:40-14:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç		IN CLASS
14:40-15:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç		IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç		IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç		IN CLASS
<b>Tuesday</b>	<b>03 September</b>			
08:40-09:30	STUDY TIME			
09:40-10:30	Heart and pericardium	Dr. Ural Verimli		IN CLASS
10:40-11:30	Heart and pericardium	Dr. Ural Verimli		IN CLASS
11:40-12:30	Heart and pericardium	Dr. Ural Verimli		IN CLASS
13:40-14:30	Anatomy of the vessels (arterial and venous system)	Dr. Ural Verimli		IN CLASS
14:40-15:30	STUDY TIME			
15:40-16:30	STUDY TIME			
16:40-17:30	STUDY TIME			
<b>Wednesday</b>	<b>04 September</b>			
08:40-09:30	Histology of the heart	Dr. Özlem Tuğçe Kaya		MS TEAMS
09:40-10:30	Histology of blood vessels	Dr. Özlem Tuğçe Kaya		MS TEAMS
10:40-11:30	Histology of blood vessels	Dr. Özlem Tuğçe Kaya		MS TEAMS
11:40-12:30	STUDY TIME			

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13:40-14:30	<b>ICS-3 SRA:</b> Student Reserch Activity (SRA) Introduction and Orientation to ICS-3 SRA. Informing about the aims and objectives of the ICS-3 SRA through 2023-24	Dr. İlke Çetin Akçay	IN CLASS
14:40-15:30	<b>ICS-3 SRA:</b> Feedback from last year	Dr. Ilke Çetin Akçay	IN CLASS
15:40-16:30	Introduction to the course and orientation of the year	Dr. Amber Eker Bakkaloğlu	IN CLASS
16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>05 September</b>		
08:40-09:30	Development of the cardiovascular system	Dr. Şule Çetinel	MS TEAMS
09:40-10:30	Development of the cardiovascular system	Dr. Şule Çetinel	MS TEAMS
10:40-11:30	Fluid Mechanics	Dr. Banu Aydın Omay	MS TEAMS
11:40-12:30	Fluid Mechanics	Dr. Banu Aydın Omay	MS TEAMS
13:40-14:30	Electrical fields, potential at a point	Dr. Cevdet Nacar	MS TEAMS
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>06 September</b>		
08:40-09:30	Principles of hemodynamics	Dr. Hızır Kurtel	IN CLASS
09:40-10:30	Principles of hemodynamics	Dr. Hızır Kurtel	IN CLASS
10:40-11:30	Regulation of blood pressure	Dr. Hızır Kurtel	IN CLASS
11:40-12:30	Regulation of blood pressure	Dr. Hızır Kurtel	IN CLASS
13:40-14:30	Systemic hypertension and hypertensive heart disease	Dr. Beste Özben Sadiç	IN CLASS
14:40-15:30	Systemic hypertension and hypertensive heart disease	Dr. Beste Özben Sadiç	IN CLASS
15:40-16:30	Cardiovascular diseases in special population	Dr. Beste Özben Sadiç	IN CLASS
16:40-17:30	STUDY TIME		
<b>2<sup>nd</sup> Week (09– 13 September, 2024)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>

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<b>Monday</b>	<b>09 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	STUDY TIME		
13:40-14:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
14:40-15:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
<b>Tuesday</b>	<b>10 September</b>		
08:40-09:30	<b>Turkish For Medical Students-IV (Interactive Session)</b>	Inst. Emine Özerinç	IN CLASS
09:40-10:30	<b>Turkish For Medical Students-IV (Interactive Session)</b>	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Cardiac cycle	Dr. Berrak Yegen	IN CLASS
11:40-12:30	Cardiac cycle	Dr. Berrak Yegen	IN CLASS
13:40-14:30	Principles of ECG	Dr. Berrak Yegen	IN CLASS
14:40-15:30	Principles of ECG	Dr. Berrak Yegen	IN CLASS
15:40-16:30	<b>PBL-1</b>	Dr. Nilüfer Güzoğlu Dr. Amber Eker	PBL Room
16:40-17:30	<b>PBL-1</b>	Dr. Bülent Sezgin Dr. Halil Eren Sakallı	
<b>Wednesday</b>	<b>11 September</b>		
08:40-09:30	Physiological properties of the cardiac muscle	Dr. Alper Yıldırım	IN CLASS
09:40-10:30	Regulation of cardiac functions	Dr. Alper Yıldırım	IN CLASS
10:40-11:30	Arterial pulse	Dr. Özgür Kasımay	IN CLASS
11:40-12:30	Regulation of blood flow	Dr. Özgür Kasımay	IN CLASS
13:40-14:30	Heart sounds	Dr. Özgür Kasımay	IN CLASS
14:40-15:30	ECG and its interpretation	Dr. Özgür Kasımay	IN CLASS



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15:40-16:30	Cardiac output	Dr. Alper Yıldırım	IN CLASS
16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>12 September</b>		
08:40-09:30	Coronary circulation	Dr. Alper Yıldırım	IN CLASS
09:40-10:30	Circulation through specific organs	Dr. Özgür Kasımay	IN CLASS
10:40-11:30	<b>Physiology LAB: ECG-1 (Group A)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
11:40-12:30	<b>Physiology LAB: ECG-1(Group B)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
13:40-14:30	<b>Physiology LAB: ECG-1 (Group C)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
14:40-15:30	<b>Physiology LAB: ECG-1(Group D)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
15:40-16:30	<b>Physiology LAB: ECG-1(Group E)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>13 September</b>		
08:40-09:30	<b>Physiology LAB: Blood pressure, heart sounds, pulse (Group 1,2)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
09:40-10:30	Turkish For Medical Students-IV ( <b>Interactive Session</b> )	Inst. Emine Özeriç	IN CLASS
	<b>Physiology LAB: Blood pressure, heart sounds, pulse(Group 3,4)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
10:40-11:30	<b>Physiology LAB: ECG-2 (Group A)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
11:40-12:30	Turkish For Medical Students-IV ( <b>Interactive Session</b> )	Inst. Emine Özeriç	IN CLASS
	<b>Physiology LAB: ECG-2 (Group B)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
13:40-14:30	Turkish For Medical Students-IV ( <b>Interactive Session</b> )	Inst. Emine Özeriç	IN CLASS
	<b>Physiology LAB: ECG-2 (Group C)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.

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14:40-15:30	Turkish For Medical Students-IV ( <b>Interactive Session</b> )	Inst. Emine Özerinç	IN CLASS
	<b>Physiology LAB: ECG-2 (Group D)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
15:40-16:30	<b>Physiology LAB: ECG-2 (Group E)</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplinary Lab.
16:40-17:30	STUDY TIME		
<b>3<sup>rd</sup> Week (16– 20 September, 2024)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>16 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	<b>Anatomy LAB: Heart and pericardium- Group 1,2,3</b>	Dr. Berfu Çerçi Öngün Dr. Hatice Efehan	Anatomy Lab.
11:40-12:30	<b>Anatomy LAB: Heart and pericardium- Group 4,5,6</b>	Dr. Berfu Çerçi Öngün Dr. Hatice Efehan	Anatomy Lab.
13:40-14:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
14:40-15:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
<b>Tuesday</b>	<b>17 September</b>		
08:40-09:30	Principal symptom and general signs in cardiovascular disease	Dr. Ahmet Altuğ Çinçin	IN CLASS
09:40-10:30	Principal symptom and general signs in cardiovascular disease	Dr. Ahmet Altuğ Çinçin	IN CLASS
10:40-11:30	Approach to the patient with cardiovascular system disease	Dr. Ahmet Altuğ Çinçin	IN CLASS
11:40-12:30	Pericarditis	Dr. Ahmet Altuğ Çinçin	IN CLASS
13:40-14:30	Examination of the heart and vessels	Dr. Mustafa Kürşat Tigen	IN CLASS
14:40-15:30	Examination of the heart and vessels	Dr. Mustafa Kürşat Tigen	IN CLASS
15:40-16:30	Valvular heart disease	Dr. Mustafa Kürşat Tigen	IN CLASS
16:40-17:30	Valvular heart disease	Dr. Mustafa Kürşat Tigen	IN CLASS

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<b>Wednesday</b>	<b>18 September</b>		
08:40-09:30	ICS-3 CLS: Respiratory System Examination	Dr. Bülent Sezgin	IN CLASS
09:40-10:30	ICS-3 CLS: Respiratory System Examination	Dr. Bülent Sezgin	IN CLASS
10:40-11:30	ICS-3 CLS: Respiratory System Examination	Dr. Bülent Sezgin	IN CLASS
11:40-12:30	ICS-3 CLS: Respiratory System Examination	Dr. Bülent Sezgin	IN CLASS
13:40-14:30	ICS-3 CLS: Cardiovascular System Examination	Dr. Bülent Sezgin	IN CLASS
14:40-15:30	ICS-3 CLS: Cardiovascular System Examination	Dr. Bülent Sezgin	IN CLASS
15:40-16:30	ICS-3 CLS: Cardiovascular System Examination	Dr. Bülent Sezgin	IN CLASS
16:40-17:30	ICS-3 CLS: Cardiovascular System Examination	Dr. Bülent Sezgin	IN CLASS
<b>Thursday</b>	<b>19 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Cardiac injury and markers	Dr. Önder Şirikçi	MS TEAMS
10:40-11:30	Cardiac injury and markers	Dr. Önder Şirikçi	MS TEAMS
11:40-12:30	STUDY TIME		
13:40-14:30	STUDY TIME		
14:40-15:30	Neoplastic diseases of the heart & blood vessels	Dr. Hüseyin Kemal Türköz	MS TEAMS
15:40-16:30	Valvular diseases of the heart	Dr. Hüseyin Kemal Türköz	MS TEAMS
16:40-17:30	Elderly patient with leg pain: Primary care approach	Dr. Pemra Cöbek Ünalın	MS TEAMS
<b>Friday</b>	<b>20 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Viscosity, laminar and turbulent flow	Dr. Pınar Mega Tiber	IN CLASS
10:40-11:30	The role of gravity in the circulation	Dr. Pınar Mega Tiber	IN CLASS
11:40-12:30	Principles of electrocardiography	Dr. Pınar Mega Tiber	IN CLASS
13:40-14:30	Vascular events	Dr. Erdi Sözen	IN CLASS
14:40-15:30	Hyperlipidemias and atherosclerosis	Dr. Erdi Sözen	IN CLASS
15:40-16:30	Hyperlipidemias and atherosclerosis	Dr. Erdi Sözen	IN CLASS

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16:40-17:30	STUDY TIME		
<b>4<sup>th</sup> Week (23– 27 September, 2024)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>23 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	<b>ICS-3 SRA: Theme, Assessment, Timeline and Schedule of the Year</b>	Dr. İlke Çetin Akçay	IN CLASS
11:40-12:30	<b>ICS-3 SRA: Informing about the Ethical Board Application Process</b>	Dr. İlke Çetin Akçay	IN CLASS
13:40-14:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
14:40-15:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
<b>Tuesday</b>	<b>24 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Biochemical aspects of the metabolic syndrome	Dr. Saime Batirel	IN CLASS
10:40-11:30	Biochemical aspects of the metabolic syndrome	Dr. Saime Batirel	IN CLASS
11:40-12:30	Lipoprotein metabolism	Dr. Saime Batirel	IN CLASS
13:40-14:30	Lipoprotein metabolism	Dr. Saime Batirel	IN CLASS
14:40-15:30	Lipoprotein metabolism	Dr. Saime Batirel	IN CLASS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>25 September</b>		
08:40-09:30	Acute coronary syndrome	Dr. Murat Sünbül	IN CLASS
09:40-10:30	Acute coronary syndrome	Dr. Murat Sünbül	IN CLASS
10:40-11:30	Heart failure and cardiogenic shock	Dr. Murat Sünbül	IN CLASS
11:40-12:30	Heart failure and cardiogenic shock	Dr. Murat Sünbül	IN CLASS

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13:40-14:30	Cardiac dysrhythmias	Dr. Yusuf Emre Gürel	IN CLASS
14:40-15:30	Cardiac dysrhythmias	Dr. Yusuf Emre Gürel	IN CLASS
15:40-16:30	Diseases of the aorta and the peripheral blood vessels	Dr. Yusuf Emre Gürel	IN CLASS
16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>26 September</b>		
08:40-09:30	Introduction to cardiovascular pharmacology	Dr. Zafer Gören	IN CLASS
09:40-10:30	Coronary artery disease	Dr. Halil Ataş	IN CLASS
10:40-11:30	Coronary artery disease	Dr. Halil Ataş	IN CLASS
11:40-12:30	Pulmonary hypertension in cardiology	Dr. Halil Ataş	IN CLASS
13:40-14:30	Turkish For Medical Students-IV ( <b>Interactive Session</b> )	Inst. Emine Özerinç	IN CLASS
	<b>Histology LAB: Histology of heart, blood vessels-Group 3,4</b>	Dr. Masoud Afshani	Multidisciplinary Lab.
14:40-15:30	Turkish For Medical Students-IV ( <b>Interactive Session</b> )	Inst. Emine Özerinç	IN CLASS
	<b>Histology LAB: Histology of heart, blood vessels-Group 3,4</b>	Dr. Masoud Afshani	Multidisciplinary Lab.
15:40-16:30	<b>Histology LAB: Histology of heart, blood vessels-Group 1,2</b>	Dr. Masoud Afshani	Multidisciplinary Lab.
16:40-17:30	<b>Histology LAB: Histology of heart, blood vessels-Group 1,2</b>	Dr. Masoud Afshani	Multidisciplinary Lab.
<b>Friday</b>	<b>27 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Clinical electrocardiography	Dr. Alper Kepez	IN CLASS
10:40-11:30	Clinical electrocardiography	Dr. Alper Kepez	IN CLASS
11:40-12:30	Syncope and sudden cardiac death	Dr. Alper Kepez	IN CLASS
13:40-14:30	<b>PBL-2</b>	Dr. Amber Eker Dr. Ergül Mutlu Altundağ	PBL Room
14:40-15:30	<b>PBL-2</b>	Dr. Bülent Sezgin Dr. Berfu Çerçi Ongun	
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		

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<b>5th Week (30 September - 04 October, 2024)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>30 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	STUDY TIME		
13:40-14:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
14:40-15:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
<b>Tuesday</b>	<b>01 October</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel	IN CLASS
10:40-11:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel	IN CLASS
11:40-12:30	Vasculitis	Dr. Zeliha Leyla Cinel	IN CLASS
13:40-14:30	<b>PBL-3</b>	Dr. Nilüfer Güzoğlu Dr. Amber Eker	PBL Room
14:40-15:30	<b>PBL-3</b>	Dr. Bülent Sezgin Dr. Halil Eren Sakallı	
15:40-16:30	<b>Turkish For Medical Students-IV (Interactive Session)</b>	Inst. Emine Özerinç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV (Interactive Session)</b>	Inst. Emine Özerinç	IN CLASS
<b>Wednesday</b>	<b>02 October</b>		
08:40-09:30	<b>ICS-3 CLS: Respiratory - Cardiovascular System Physical Examination</b>	Dr. Bülent Sezgin Dr. Barış Sarı	ICS Lab.
09:40-10:30	<b>ICS-3 CLS: Respiratory - Cardiovascular System Physical Examination</b>	Dr. Bülent Sezgin Dr. Barış Sarı	ICS Lab.
10:40-11:30	<b>ICS-3 CLS: Respiratory - Cardiovascular System Physical Examination</b>	Dr. Bülent Sezgin Dr. Barış Sarı	ICS Lab.

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11:40-12:30	<b>ICS-3 CLS:</b> Respiratory - Cardiovascular System Physical Examination	Dr. Bülent Sezgin Dr. Barış Sarı	ICS Lab.
13:40-14:30	<b>ICS-3 CLS:</b> Respiratory - Cardiovascular System Physical Examination	Dr. Bülent Sezgin Dr. Barış Sarı	ICS Lab.
14:40-15:30	<b>ICS-3 CLS:</b> Respiratory - Cardiovascular System Physical Examination	Dr. Bülent Sezgin Dr. Barış Sarı	ICS Lab.
15:40-16:30	<b>ICS-3 CLS:</b> Respiratory - Cardiovascular System Physical Examination	Dr. Bülent Sezgin Dr. Barış Sarı	ICS Lab.
16:40-17:30	<b>ICS-3 CLS:</b> Respiratory - Cardiovascular System Physical Examination	Dr. Bülent Sezgin Dr. Barış Sarı	ICS Lab.
<b>Thursday</b>	<b>03 October</b>		
08:40-09:30	Pharmacotherapy of ischemic heart disease and MI	Dr. Ahmet Akıcı	IN CLASS
09:40-10:30	Pharmacotherapy of ischemic heart disease and MI	Dr. Ahmet Akıcı	IN CLASS
10:40-11:30	Pharmacotherapy of hyperlipidemias	Dr. Ahmet Akıcı	IN CLASS
11:40-12:30	STUDY TIME		
13:40-14:30	Cardiomyopathies and myocarditis	Dr. Bülent Mutlu	MS TEAMS
14:40-15:30	Diagnostic methods in cardiology	Dr. Bülent Mutlu	MS TEAMS
15:40-16:30	Diagnostic methods in cardiology	Dr. Bülent Mutlu	MS TEAMS
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>04 October</b>		
08:40-09:30	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı	IN CLASS
09:40-10:30	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı	IN CLASS
10:40-11:30	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı	IN CLASS
11:40-12:30	Ischaemic heart disease	Dr. İpek Erbarut	IN CLASS
13:40-14:30	Ischaemic heart disease	Dr. İpek Erbarut	IN CLASS
14:40-15:30	<b>Pathology LAB:</b> Heart and valvular diseases <b>Group 1,2,3</b>	Dr. İpek Erbarut	Multidisciplinary Lab.
15:40-16:30	<b>Pathology LAB:</b> Heart and valvular diseases <b>Group 4,5,6</b>	Dr. İpek Erbarut	Multidisciplinary Lab.
16:40-17:30	STUDY TIME		

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<b>6<sup>th</sup> Week (07– 11 October, 2024)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>07 October</b>		
08:40-09:30	Approach to thromboembolic disorders	Dr. Koray Ak	MS TEAMS
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	STUDY TIME		
13:40-14:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Inst. Emine Özerinç	IN CLASS
14:40-15:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Inst. Emine Özerinç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Inst. Emine Özerinç	IN CLASS
	<b>Elective Courses</b>		
16:40-17:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Inst. Emine Özerinç	IN CLASS
	<b>Elective Courses</b>		
<b>Tuesday</b>	<b>08 October</b>		
08:40-09:30	Acute rheumatic fever	Dr. Figen Akalın	IN CLASS
09:40-10:30	Acute rheumatic fever	Dr. Figen Akalın	IN CLASS
10:40-11:30	Congenital acyanotic heart disease with left to right shunt	Dr. Figen Akalın	IN CLASS
11:40-12:30	Congenital cyanotic heart disease	Dr. Figen Akalın	IN CLASS
13:40-14:30	Congenital heart disease with valvular obstruction or stenosis	Dr. Figen Akalın	IN CLASS
14:40-15:30	Pharmacotherapy in peripheral arterial and venous occlusive diseases	Dr. Halil Eren Sakallı	IN CLASS
15:40-16:30	<b>PBL-4</b>	Dr. Nilüfer Güzoğlu Dr. Amber Eker	PBL Room
16:40-17:30	<b>PBL-4</b>	Dr. Bülent Sezgin Dr. Halil Eren Sakallı	
<b>Wednesday</b>	<b>09 October</b>		
08:40-09:30	Epidemiology of cardiovascular diseases	Dr. Nimet Emel Lüleci	MS TEAMS
09:40-10:30	Genetic basis of the cardiovascular diseases	Dr. Mehmet Ali Söylemez	MS TEAMS



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10:40-11:30	Adult patient with chest pain. Primary care approach	Dr. Ülkü Sur Ünal	MS TEAMS
11:40-12:30	Microbiological approach to cardiovascular infections	Dr. Nurver Ülger	MS TEAMS
13:40-14:30	STUDY TIME		
14:40-15:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Berna Terzioğlu Bebitoğlu	MS TEAMS
15:40-16:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Berna Terzioğlu Bebitoğlu	MS TEAMS
16:40-17:30	ICS 3 SRA: Meeting with mentor		
<b>Thursday</b>	<b>10 October</b>		
08:40-09:30	Turkish For Medical Students-IV ( <b>Interactive Session</b> )	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-IV ( <b>Interactive Session</b> )	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Pharmacotherapy of heart failure	Dr. Halil Eren Sakallı	IN CLASS
11:40-12:30	Pharmacotherapy of heart failure	Dr. Halil Eren Sakallı	IN CLASS
13:40-14:30	<b>PBL-5</b>	Dr. Nilüfer Güzoğlu Dr. Amber Eker Dr. Bülent Sezgin Dr. Halil Eren Sakallı	PBL Room
14:40-15:30	<b>PBL-5</b>		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>11 October</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	STUDY TIME		
13:40-14:30	Radiology of the cardiovascular system	Dr. Efe Soydemir	MS TEAMS
14:40-15:30	Myocardial scintigraphy and radionuclide ventriculography	Dr. Halil Turgut Turoğlu	MS TEAMS
15:40-16:30	Cardiac action potentials	Dr. Hülya Cabadak	MS TEAMS
16:40-17:30	STUDY TIME		

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7 <sup>th</sup> Week (14– 18 October, 2024)			
	Calendar Days	Instructor Name	Lecture Platform
<b>Monday</b>	<b>14 October</b>		
08:40-09:30	<b>PRACTICAL EXAM</b>		
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30			
14:40-15:30			
15:40-16:30			
16:40-17:30			
<b>Tuesday</b>	<b>15 October</b>		
08:40-09:30	<b>PRACTICAL EXAM</b>		
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30			
14:40-15:30			
15:40-16:30			
16:40-17:30			
<b>Wednesday</b>	<b>16 October</b>		
08:40-09:30	<b>Y3C1 COMMITTEE EXAM</b>		
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30	Committee Exam Feedback Session	Dr. Amber Eker Bakkaloğlu Dr. Halil Eren Sakallı	IN CLASS

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14:40-15:30			
15:40-16:30			
16:40-17:30			
<b>Thursday</b>	<b>17 October</b>		
08:40-09:30	<b>Y2C1 COMMITTEE EXAM</b>		
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30			
14:40-15:30			
15:40-16:30			
16:40-17:30			
<b>Friday</b>	<b>18 October</b>		
08:40-09:30			
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30			
14:40-15:30			
15:40-16:30			
16:40-17:30			