

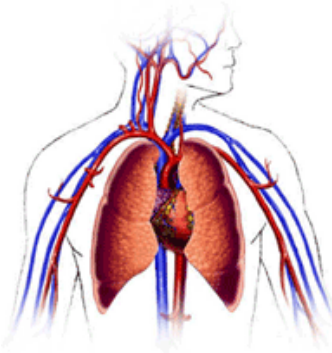


Last Updated on 06 October, 2023

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 <b>MARMARA UNIVERSITY – EASTERN MEDITERRANEAN UNIVERSITY INTERNATIONAL MEDICAL SCHOOL</b> 	
	
<b>CARDIOVASCULAR SYSTEM AND RELATED DISORDERS YEAR 3 COURSE 1 September 4<sup>th</sup>, 2023 – October 12<sup>th</sup>, 2023</b>	
<b>Year 3 Coordinators</b> Prof. Arzu Akşit İLKİ & Prof. Pinar Mega TİBER & Assoc. Prof. Amber EKER	
<b>PBL Module Coordinator</b> Prof. Rezzan GÜLHAN & Assoc. Prof. Nilüfer GÜZOĞLU	<b>Coordinator of Multidisciplinary Students' Lab.</b> Prof. Betül YILMAZ & Assoc. Prof. Ergül Mutlu ALTUNDAĞ
<b>Coordinator of Clinical Skill Lab.</b> Prof. Pemra ÜNALAN & Assist. Prof. Bülent SEZGİN	<b>Coordinator of ICS Res. Lab.</b> Prof. Pemra ÜNALAN & Assist. Prof. İlke AKÇAY
<b>Assessment</b> Assist. Prof. Cevdet NACAR & Assist. Prof. H. Eren SAKALLI	<b>Student Affairs</b> Asist. Prof. Can ERZİK Inst. Ayşen ŞEKERİM
<b>Chief Coordinator</b> Prof. Hasan R. YANANLI & Assist. Prof. Masoud AEZHANI	<b>Coordinator of Medical Education Program Evaluation and Development Commission</b> Prof. Harika Alpay
<b>Coordinator of the Joint Program</b> Prof. Süleyman Ümit ŞEHİRLİ	
<b>Dean (EMU) (a)</b> Asist. Prof. İlke AKÇAY	<b>Dean (MU)</b> 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>	
<b>AIM and LEARNING OBJECTIVES of COURSE</b>	
<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>	
<b>ASSESSMENT SYSTEM</b>	<b>PROGRAM EVALUATION</b>
<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>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>● Biophysics</li> <li>● Cardiology</li> <li>● Cardiovascular Surgery</li> <li>● Family Medicine</li> <li>● Histology and Embryology</li> <li>● Medical Biochemistry</li> <li>● Pediatric Cardiology</li> </ul>	<ul style="list-style-type: none"> <li>● Medical Genetics</li> <li>● Microbiology</li> <li>● Nuclear Medicine</li> <li>● Pathology</li> <li>● Pharmacology</li> <li>● Physiology</li> <li>● Public Health</li> <li>● Radiology</li> </ul>
<b>LECTURERS / TUTORS</b>	
<p>Alper Kepez, Assoc. Prof., Cardiology</p> <p>Alper Yıldırım, Assoc. Prof., Physiology</p> <p>Amber Eker, Assoc. Prof., Neurology</p> <p>Ahmet Akıcı, Prof., Clinical Pharmacology</p> <p>Ahmet Altuğ Çiğcin, Assoc. Prof., Cardiology</p> <p>Banu Aydın Omay, Assoc. Prof., Biophysics</p> <p>Berfu Çerçi Öngün, Inst., Anatomy</p> <p>Berna Terzioğlu Bebitoğlu, Prof., Pharmacology</p>	<p>Hüseyin Kemal Türköz, Assoc. Prof., Pathology</p> <p>İpek Erbarut, Assoc. Prof., Pathology</p> <p>Masoud Afshani, Assist. Prof., Histology and Embryology</p> <p>Mehmet Ali Söylemez, Lecturer of Medical Genetics</p> <p>Mert Kaşkal, Lecturer of Pharmacology</p> <p>Murat Sünbül, Assoc. Prof., Cardiology</p> <p>Mustafa Kürşat Tigen, Prof., Cardiology</p> <p>Nimet Emel Lülecı, Prof., Public Health</p>

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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  
Elif Erolu, Assoc Pediatric Cardiology  
Emine Özerinç, , Sr. Inst., Turkish Language  
Erdi Sözen, Assoc. Prof., Biochemistry  
Figen Akalin, 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, Inst., 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.</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	1	6
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>Subtotal</b>	<b>103</b>	<b>6</b>	<b>109</b>
<b>PBL Module</b>	8		8
<b>ICS-3: Clinical Skills Lab.</b>			
<b>ICS-3 Research</b>			
Turkish for Medical Students – IV	16		16
Turkish for Medical Students – IV <b>(Interactive Session)</b>	4		4
<b>TOTAL</b>	<b>131</b>	<b>6</b>	<b>137</b>

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	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	
<b>1<sup>st</sup> Week (04– 08 September, 2023)</b>			
	Calendar Days	Instructor Name	Lecture Platform
<b>Monday</b>	<b>04 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</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
14:40-15:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
<b>Tuesday</b>	<b>05 September</b>		
08:40-09:30	Introduction to the course and opening lecture	Dr. Amber Eker Bakkaloğlu	IN CLASS
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	<b>ICS-3:</b> Introduction to ICS- 3 program in general	Dr. Pemra Cöbek Ünalın Dr. Bülent Sezgin	IN CLASS
15:40-16:30	<b>ICS-3:</b> Introduction and Orientation to ICS-3: Student Research Activity (SRA).	Dr. Pemra Cöbek Ünalın Dr. İlke Çetin Akçay	IN CLASS
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>06 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Histology of the heart	Dr. Özlem Tuğçe Kaya	MS TEAMS

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10:40-11:30	Histology of blood vessels	Dr. Özlem Tuğçe Kaya	MS TEAMS
11:40-12:30	Histology of blood vessels	Dr. Özlem Tuğçe Kaya	MS TEAMS
13:40-14:30	<b>ICS-3 Research:</b> Feedback from last year	Dr. İlke Akçay	IN CLASS
14:40-15:30	<b>ICS-3 Research:</b> Theme, Assessment, Timeline and Schedule of the Year	Dr. İlke Akçay	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Sr. Inst. Emine Özeriç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Sr. Inst. Emine Özeriç	IN CLASS
<b>Thursday</b>	<b>07 September</b>		
08:40-09:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Sr. Inst. Emine Özeriç	IN CLASS
09:40-10:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Sr. Inst. Emine Özeriç	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	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>08 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	Heart sounds	Dr. Özgür Kasımay	MS TEAMS
14:40-15:30	Regulation of blood flow	Dr. Özgür Kasımay	MS TEAMS
15:40-16:30	Circulation through specific organs	Dr. Özgür Kasımay	MS TEAMS
16:40-17:30	STUDY TIME		

**2<sup>nd</sup> Week (11– 15 September, 2023)**

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	Calendar Days	Instructor Name	Lecture Platform
<b>Monday</b>	<b>11 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Electrical fields, potential at a point	Dr. Cevdet Nacar	MS TEAMS
11:40-12:30	STUDY TIME		
13:40-14:30	<b>ICS-3:</b> Physical Examination of the Chest and Lungs (presentation)	Dr. Bülent Sezgin	IN CLASS
14:40-15:30	<b>ICS-3:</b> Physical Examination of the Chest and Lungs (presentation)	Dr. Bülent Sezgin	IN CLASS
15:40-16:30	<b>ICS-3:</b> Physical Examination of the Chest and Lungs (presentation)	Dr. Bülent Sezgin	IN CLASS
16:40-17:30	<b>ICS-3:</b> Physical Examination of the Chest and Lungs (presentation)	Dr. Bülent Sezgin	IN CLASS
<b>Tuesday</b>	<b>12 September</b>		
08:40-09:30	Principal symptom and general signs in cardiovascular disease	Dr. Beste Özben Sadıç	IN CLASS
09:40-10:30	Principal symptom and general signs in cardiovascular disease	Dr. Beste Özben Sadıç	IN CLASS
10:40-11:30	Diagnostic methods in cardiology	Dr. Beste Özben Sadıç	IN CLASS
11:40-12:30	Diagnostic methods in cardiology	Dr. Beste Özben Sadıç	IN CLASS
13:40-14:30	Vascular events	Dr. Erdi Sözen	MS TEAMS
14:40-15:30	Hyperlipidemias and atherosclerosis	Dr. Erdi Sözen	MS TEAMS
15:40-16:30	Hyperlipidemias and atherosclerosis	Dr. Erdi Sözen	MS TEAMS
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>13 September</b>		
08:40-09:30	<b>ICS-3:</b> Cardiac System Examination (presentation)	Dr. Bülent Sezgin	IN CLASS
09:40-10:30	<b>ICS-3:</b> Cardiac System Examination (presentation)	Dr. Bülent Sezgin	IN CLASS
10:40-11:30	<b>ICS-3:</b> Cardiovascular System Examination (tutor presentation –infant)	Dr. Nilüfer Güzoğlu	IN CLASS



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11:40-12:30	<b>ICS-3:</b> Cardiovascular System Examination (tutor presentation –infant)	Dr. Nilüfer Güzoğlu	IN CLASS
13:40-14:30	<b>Anatomy LAB:</b> Heart and pericardium- <b>Group 1,2,3</b>	Dr. Berfu Çerçi Öngün Dr. Hatice Efehan	Anatomy Lab.
	<b>Histology LAB:</b> Histology of heart, blood vessels- <b>Group 4,5,6</b>	Dr. Masoud Afshani	Multidis. Lab
14:40-15:30	<b>Anatomy LAB:</b> Heart and pericardium- <b>Group 4,5,6</b>	Dr. Berfu Çerçi Öngün Dr. Hatice Efehan	Anatomy Lab.
	<b>Histology LAB:</b> Histology of heart, blood vessels- <b>Group 1,2,3</b>	Dr. Masoud Afshani	Multidis. Lab
15:40-16:30	<b>PBL 1</b>	Dr. Amber Eker Dr. Bülent Sezgin Dr. Halil Eren Sakallı Dr. Nilüfer Güzoğlu	IN CLASS
16:40-17:30	<b>PBL 1</b>		
<b>Thursday</b>	<b>14 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Lipoprotein metabolism	Dr. Saime Batirel	IN CLASS
10:40-11:30	Lipoprotein metabolism	Dr. Saime Batirel	IN CLASS
11:40-12:30	Lipoprotein metabolism	Dr. Saime Batirel	IN CLASS
13:40-14:30	Biochemical aspects of the metabolic syndrome	Dr. Saime Batirel	IN CLASS
14:40-15:30	Biochemical aspects of the metabolic syndrome	Dr. Saime Batirel	IN CLASS
15:40-16:30	<b>PBL 2</b>	Dr. Amber Eker Dr. Bülent Sezgin Dr. Halil Eren Sakallı Dr. Nilüfer Güzoğlu	IN CLASS
16:40-17:30	<b>PBL 2</b>		
<b>Friday</b>	<b>15 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	Epidemiology of cardiovascular diseases	Dr. Nimet Emel Lüleci	MS TEAMS
13:40-14:30	Valvular diseases of the heart	Dr. Hüseyin Kemal Türköz	MS TEAMS

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14:40-15:30	Neoplastic diseases of the heart & blood vessels	Dr. Hüseyin Kemal Türköz	MS TEAMS
15:40-16:30	Introduction to cardiovascular pharmacology	Dr. Zafer Gören	MS TEAMS
16:40-17:30	STUDY TIME		
<b>3<sup>rd</sup> Week (18– 22 September, 2023)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>18 September</b>		
08:40-09:30	Clinical electrocardiography	Dr. Halil Ataş	IN CLASS
09:40-10:30	Clinical electrocardiography	Dr. Halil Ataş	IN CLASS
10:40-11:30	Syncope and sudden cardiac death	Dr. Halil Ataş	IN CLASS
11:40-12:30	STUDY TIME		
13:40-14:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
14:40-15:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
<b>Tuesday</b>	<b>19 September</b>		
08:40-09:30	Pharmacotherapy of heart failure	Dr. Mert Kaşkal	MS TEAMS
09:40-10:30	Pharmacotherapy of heart failure	Dr. Mert Kaşkal	MS TEAMS
10:40-11:30	Viscosity, laminar and turbulent flow	Dr. Pınar Mega Tiber	MS TEAMS
11:40-12:30	The role of gravity in the circulation	Dr. Pınar Mega Tiber	MS TEAMS
13:40-14:30	Arterial pulse	Dr. Özgür Kasımay	MS TEAMS
14:40-15:30	Cardiac injury and markers	Dr. Önder Şirikçi	MS TEAMS
15:40-16:30	Cardiac injury and markers	Dr. Önder Şirikçi	MS TEAMS
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>20 September</b>		
08:40-09:30	<b>ICS-3: Thorax and Cardiovascular System Examination</b> (practice)	Dr. Amber Eker	
09:40-10:30	<b>ICS-3: Thorax and Cardiovascular System Examination</b> (practice)	Dr. Bülent Sezgin Dr. Nilüfer Güzoğlu	

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10:40-11:30	ICS-3: Thorax and Cardiovascular System Examination (practice)		ICP LAB.
11:40-12:30	ICS-3: Thorax and Cardiovascular System Examination (practice)		
13:40-14:30	ICS-3: Thorax and Cardiovascular System Examination (practice)		
14:40-15:30	ICS-3: Thorax and Cardiovascular System Examination (practice)	Dr. Amber Eker Dr. Bülent Sezgin Dr. Nilüfer Güzoğlu	ICP LAB.
15:40-16:30	ICS-3: Thorax and Cardiovascular System Examination (practice)		
16:40-17:30	ICS-3: Thorax and Cardiovascular System Examination (practice)		
<b>Thursday</b>	<b>21 September</b>		
08:40-09:30	Heart failure and cardiogenic shock	Dr. Murat Sünbül	IN CLASS
09:40-10:30	Heart failure and cardiogenic shock	Dr. Murat Sünbül	IN CLASS
10:40-11:30	Cardiomyopathies and myocarditis	Dr. Murat Sünbül	IN CLASS
11:40-12:30	Cardiovascular diseases in special population	Dr. Murat Sünbül	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	Coronary artery disease	Dr. Mustafa Kürşat Tigen	IN CLASS
16:40-17:30	Coronary artery disease	Dr. Mustafa Kürşat Tigen	IN CLASS
<b>Friday</b>	<b>22 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Systemic hypertension and hypertensive heart disease	Dr. Yusuf Emre Gürel	IN CLASS
10:40-11:30	Systemic hypertension and hypertensive heart disease	Dr. Yusuf Emre Gürel	IN CLASS
11:40-12:30	Diseases of the aorta and the peripheral blood vessels	Dr. Yusuf Emre Gürel	IN CLASS
13:40-14:30	Acute coronary syndrome	Dr. Alper Kepez	IN CLASS
14:40-15:30	Acute coronary syndrome	Dr. Alper Kepez	IN CLASS

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15:40-16:30	Pericarditis	Dr. Alper Kepez	IN CLASS
16:40-17:30	Pharmacotherapy in peripheral arterial and venous occlusive diseases	Dr. Halil Eren Sakallı	IN CLASS
<b>4<sup>th</sup> Week (25– 29 September, 2023)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>25 September</b>		
08:40-09:30	Approach to the patient with cardiovascular system disease	Dr. Ahmet Altuğ Çinçin	IN CLASS
09:40-10:30	Cardiac dysrhythmias	Dr. Ahmet Altuğ Çinçin	IN CLASS
10:40-11:30	Cardiac dysrhythmias	Dr. Ahmet Altuğ Çinçin	IN CLASS
11:40-12:30	Elderly patient with leg pain: Primary care approach	Dr. Pemra Cöbek Ünalın	IN CLASS
13:40-14:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Sr. Inst. Emine Özerinç	IN CLASS
14:40-15:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Sr. Inst. Emine Özerinç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Sr. Inst. Emine Özerinç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Sr. Inst. Emine Özerinç	IN CLASS
18:00-20:00	Development of the cardiovascular system	Dr. Şule Çetinel	MS TEAMS
<b>Tuesday</b>	<b>26 September</b>		
08:40-09:30	Ischaemic heart disease	Dr. İpek Erbarut	IN CLASS
09:40-10:30	Ischaemic heart disease	Dr. İpek Erbarut	IN CLASS
10:40-11:30	<b>Pathology LAB: Heart and valvular diseases- Group 1,2,3</b>	Dr. İpek Erbarut	IN CLASS
11:40-12:30	<b>Pathology LAB: Heart and valvular diseases- Group 4,5,6</b>	Dr. İpek Erbarut	IN CLASS
13:40-14:30	Regulation of cardiac functions	Dr. Alper Yıldırım	MS Teams
14:40-15:30	Physiological properties of the cardiac muscle	Dr. Alper Yıldırım	MS Teams
15:40-16:30	Cardiac output	Dr. Alper Yıldırım	MS Teams
16:40-17:30	Radiology of the cardiovascular system	Dr. Efe Soydemir	MS TEAMS
<b>Wednesday</b>	<b>27 September</b>		
08:40-09:30			

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09:40-10:30	<b>HOLIDAY</b>		
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>Thursday</b>	<b>28 September</b>		
08:40-09:30	Coronary circulation	Dr. Alper Yıldırım	IN CLASS
09:40-10:30	ECG and its interpretation	Dr. Özgür Kasımay	IN CLASS
10:40-11:30	<b>Physiology LAB: ECG-1</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
11:40-12:30	<b>Physiology LAB: ECG-1</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
13:40-14:30	<b>Physiology LAB: ECG-1</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
14:40-15:30	<b>Physiology LAB: ECG-1</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
15:40-16:30	<b>Physiology LAB: ECG-1</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
16:40-17:30	<b>Physiology LAB: ECG-1</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
<b>Friday</b>	<b>29 September</b>		
08:40-09:30	<b>Physiology LAB: ECG-2</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
09:40-10:30	<b>Physiology LAB: ECG-2</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
10:40-11:30	<b>Physiology LAB: ECG-2</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
11:40-12:30	<b>Physiology LAB: ECG-2</b>	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab

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13:40-14:30	<b>Physiology LAB:</b> ECG-2	Dr. Alper Yıldırım Dr. Özgür Kasımay	Multidis. Lab
14:40-15:30	<b>Physiology LAB:</b> ECG-2	Dr. Alper Yıldırım Dr. Özgür Kasımay	Multidis. Lab
15:40-16:30	<b>Physiology LAB:</b> Blood pressure, heart sounds, pulse	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
16:40-17:30	<b>Physiology LAB:</b> Blood pressure, heart sounds, pulse	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
<b>5<sup>th</sup> Week (02– 06 October, 2023)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>02 October</b>		
08:40-09:30	Valvular heart disease	Dr. Bülent Mutlu	MS TEAMS
09:40-10:30	Valvular heart disease	Dr. Bülent Mutlu	MS TEAMS
10:40-11:30	Pulmonary hypertension in cardiology	Dr. Bülent Mutlu	MS TEAMS
11:40-12:30	Cardiac action potentials	Dr. Hülya Cabadak	MS TEAMS
13:40-14:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
14:40-15:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Sr. Inst. Emine Özeriç	IN CLASS
<b>Tuesday</b>	<b>03 October</b>		
08:40-09:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Berna Terzioğlu Bebitoğlu	MS TEAMS
09:40-10:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Berna Terzioğlu Bebitoğlu	MS TEAMS
10:40-11:30	Adult patient with chest pain. Primary care approach	Dr.Ülkü Sur Ünal	MS TEAMS
11:40-12:30	STUDY TIME		
12:40-13:30	<b>PBL-3</b>	Dr. Amber Eker Dr. Bülent Sezgin Dr. Halil Eren Sakallı Dr. Nilüfer Güzoğlu	IN CLASS
13:40-14:30	<b>PBL-3</b>		
14:40-15:30	Pharmacotherapy of ischemic heart disease and MI	Dr. Ahmet Akıcı	IN CLASS
15:40-16:30	Pharmacotherapy of ischemic heart disease and MI	Dr. Ahmet Akıcı	IN CLASS

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16:40-17:30	Pharmacotherapy of hyperlipidemias	Dr. Ahmet Akıcı	IN CLASS
<b>Wednesday</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	<b>PBL 4</b>	Dr. Amber Eker Dr. Bülent Sezgin Dr. Halil Eren Sakallı Dr. Nilüfer Güzoğlu	IN CLASS
12:40-13:30	<b>PBL 4</b>		
13:40-14:30	STUDY TIME		
14:40-15:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel	MS TEAMS
15:40-16:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel	MS TEAMS
16:40-17:30	Vasculitis	Dr. Zeliha Leyla Cinel	MS TEAMS
<b>Thursday</b>	<b>05 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	<b>PBL 5</b>	Dr. Amber Eker Dr. Bülent Sezgin Dr. Halil Eren Sakallı Dr. Nilüfer Güzoğlu	IN CLASS
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>06 October</b>		
08:40-09:30	Congenital heart disease with valvular obstruction or stenosis	Dr. Elif Erolu	MS TEAMS
09:40-10:30	Genetic basis of the cardiovascular diseases	Dr. Mehmet Ali Söylemez	MS TEAMS
10:40-11:30	Microbiological approach to cardiovascular infections	Dr. Nurver Ülger	MS TEAMS
11:40-12:30	Principles of electrocardiography	Dr. Pınar Mega Tiber	MS TEAMS

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13:40-14:30	Fluid Mechanics	Dr. Banu Aydın Omay	MS TEAMS
14:40-15:30	Fluid Mechanics	Dr. Banu Aydın Omay	MS TEAMS
15:40-16:30	Myocardial scintigraphy and radionuclide ventriculography	Dr. Halil Turgut Turoğlu	MS TEAMS
16:40-17:30	Approach to thromboembolic disorders	Dr. Koray Ak	MS TEAMS
<b>6<sup>th</sup> Week (09– 13 October, 2023)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>09 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	STUDY TIME		
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Tuesday</b>	<b>10 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	STUDY TIME		
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>11 October</b>		
08:40-09:30			



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

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