

Last Updated on 02 December, 2022

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



**CARDIOVASCULAR SYSTEM AND RELATED DISORDERS  
YEAR 3 COURSE 1  
September 5<sup>th</sup>, 2022 – October 20<sup>th</sup>, 2022**

**Year 3 Coordinators**

Prof. Arzu Akşit İLKI & Assoc. Prof. Pınar Mega TİBER & Assoc. Prof. Amber EKER

**PBL Module Coordinator**

Prof. Rezzan GÜLHAN & Assist. Prof. Bülent SEZGİN

**Coordinator of Multidisciplinary Students' Lab.**

Prof. Betül YILMAZ & Assist. Prof. Ergül Mutlu  
ALTUNDAĞ

**Coordinator of Clinical Skill Lab.**

Prof. Pemra ÜNALAN & Assoc. Prof. Nilüfer GÜZOĞLU

**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**

Asist. Prof. Can ERZİK  
Inst. Ayşen ŞEKERİM

**Chief Coordinator**

Prof. Hasan R. YANANLI & Assist. Prof. Masoud  
AFSHANI

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

Prof. Harika Alpay

**Coordinator of the Joint Program**

Prof. Süleyman Ümit ŞEHİRLİ

**Dean (EMU)**

Prof. Nahide GÖKÇORA

**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>	
<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>• Child Health and Diseases</li> <li>• Family Medicine</li> <li>• Histology and Embryology</li> <li>• Medical Biochemistry</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Genetics</li> <li>• Medical 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>Ahmet Akıcı, Prof., Pharmacology</p> <p>Ahmet Altuğ Çınçın, Assoc. Professor of Cardiology</p> <p>Amber Eker, Assoc. Prof., Neurology</p> <p>Alper Yıldırım, Assoc. Prof., Physiolog</p> <p>Arzu Uzuner, Prof., Family Medicine</p> <p>Aslıhan Engin Bozoğlu, Inst., German Language</p> <p>Ayşe Atasoylu, Inst., Advanced Physical Exam Skills&amp; Intro to Clinical Reasoning</p>	<p>Masoud Afshani, Assist. Prof., Histology and Embryology</p> <p>Mehmet Ali Söylemez, Lecturer of Medical Genetics</p> <p>Murat Sünbül, Assoc. Prof., Cardiology</p> <p>Mustafa Kürşat Tigen, Prof., Cardiology</p> <p>Nahide Gökçora, Prof., Nuclear Medicine</p> <p>Nilüfer Güzoğlu, Assoc. Prof., Neonatology</p> <p>Nimet Emel Lülecı, ,Prof., Public Health</p> <p>Nurver Ülger, Prof., Microbiology</p>

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Banu Aydın Omay, Assoc. Prof., Biophysics  
Berfu Çerçi Öngün, Inst., Anatomy  
Berrak Yeğen, Prof., Physiology  
Beste Özben Sadıç, Prof., Cardiology  
Betül Yılmaz, Prof., Biochemistry  
Bülent Sezgin, Assist. Prof., Internal Medicine  
Cevdet Nacar, Assist. Prof., Biophysics  
Efe Soydemir, Assist. Prof., Radiology  
Emine Özerinç., Inst., Turkish Language  
Eren Sakallı, Assist. Prof., Pharmacology  
Figen Akalın, Prof., Pediatric Cardiology  
Gülru Pemra Ünalın, Prof., Family Medicine  
İlke Akçay, Assist. Prof., Biostatistics  
İpek Erbarut, Assoc. Prof., Pathology  
Halil Ataş, Assoc. Prof., Cardiology  
Hatice Efehan, Inst., Anatomy  
Hızır Kurtel, Prof., Physiology  
Hülya Cabadak, Prof., Biophysics

Osman Yeşildağ, Prof., Cardiology  
Önder Şirikçi, Prof., Biochemistry  
Özlem Tuğçe Kaya, Assoc. Prof., Histology  
Özgür Kasımay Çakır, Prof., Physiology  
Mustafa Batıbeniz, Inst., Art and Craft  
Pınar Mega Tiber, Assoc. Prof., Biophysics  
Rezzan Gülhan, Prof., Pharmacology  
Ural Verimli, Prof., Anatomy  
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
Biophysics	7		7
Cardiology	32		32
Family Medicine	2		2
Histology and Embryology	5	1	6
Medical Biochemistry	10		10
Medical Genetics	1		1
Medical Microbiology	1		1
Nuclear Medicine	1		1
Pathology	7	1	8
Pharmacology	12		12
Physiology	10	3	13
Public Health	1		1
Radiology	1		1
<b>Subtotal</b>	<b>94</b>	<b>6</b>	<b>100</b>
<b>PBL Module</b>	9		9
<b>ICS-3: Clinical Skills Lab.</b>	8	8	16
<b>ICS-3 Research</b>	2		
Turkish for Medical Students – IV	24		24
Turkish for Medical Students – IV (Interactive Session)	14		14
<b>Elective Courses</b>	2		2
<b>TOTAL</b>	<b>153</b>	<b>14</b>	<b>167</b>

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		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	
<b>1<sup>st</sup> Week (05– 09 September, 2022)</b>				
	<b>Calendar Days</b>		<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>05 September</b>			
08:40-09:30	STUDY TIME			
09:40-10:30	Introduction to the course and opening lecture	Dr. Amber Eker	IN CLASS	
10:40-11:30	<b>ICS-3:</b> Introduction to ICS 3 program and Orientation to ICS-3 Student Research Activity (SRA).	Dr. Gülru Pemra Ünalın & Dr. İlke Akçay	IN CLASS	
11:40-12:30	<b>ICS-3 Research:</b> Informing about the aims and objectives of the ICS-3 SRA and Feedback from last year	Dr. Gülru Pemra Ünalın & Dr. İlke Akçay	IN CLASS	
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	
16:40-17:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Inst. Emine Özerinç	IN CLASS	
<b>Tuesday</b>	<b>06 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	<b>Anatomy LAB: Heart and pericardium-Group (2,4,6)</b>	Dr. Ural Verimli Dr. Berfu Çerçi Öngün Inst. Hatice Efekean	Anatomy Lab.	
15:40-16:30	<b>Anatomy LAB: Heart and pericardium-Group (1,3,5)</b>	Dr. Ural Verimli Dr. Berfu Çerçi Öngün Inst. Hatice Efekean	Anatomy Lab.	
16:40-17:30	STUDY TIME			
<b>Wednesday</b>	<b>07 September</b>			
08:40-09:30	STUDY TIME			

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09:40-10:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Histology of the heart	Dr. Özlem Tuğçe Kaya	IN CLASS
13:40-14:30	Histology of blood vessels	Dr. Özlem Tuğçe Kaya	IN CLASS
14:40-15:30	Histology of blood vessels	Dr. Özlem Tuğçe Kaya	IN CLASS
15:40-16:30	<b>Histology LAB:</b> Histology of heart, blood vessels <b>(Group A)</b>	Dr. Özlem Tuğçe Kaya Dr. Masoud Afshani	Multidis. Lab
16:40-17:30	<b>Histology LAB:</b> Histology of heart, blood vessels <b>(Group B)</b>	Dr. Özlem Tuğçe Kaya Dr. Masoud Afshani	Multidis. Lab
<b>Thursday</b>	<b>08 September</b>		
08:40-09:30	Cardiac cycle	Dr. Berrak Yegen	IN CLASS
09:40-10:30	Cardiac cycle	Dr. Berrak Yegen	IN CLASS
10:40-11:30	Principles of ECG	Dr. Berrak Yegen	IN CLASS
11:40-12:30	Principles of ECG	Dr. Berrak Yegen	IN CLASS
13:40-14:30	Lipoprotein metabolism	Dr. Betül Yılmaz	IN CLASS
14:40-15:30	Lipoprotein metabolism	Dr. Betül Yılmaz	IN CLASS
15:40-16:30	Viscosity, laminar and turbulent flow	Dr. Pınar Mega Tiber	IN CLASS
16:40-17:30	The role of gravity in the circulation	Dr. Pınar Mega Tiber	IN CLASS
<b>Friday</b>	<b>09 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Principles of electrocardiography	Dr. Pınar Mega Tiber	IN CLASS
10:40-11:30	Lipoprotein metabolism	Dr. Betül Yılmaz	IN CLASS
11:40-12:30	Vascular events	Dr. Betül Yılmaz	IN CLASS
13:40-14:30	Hyperlipidemias and atherosclerosis	Dr. Betül Yılmaz	IN CLASS
14:40-15:30	Hyperlipidemias and atherosclerosis	Dr. Betül Yılmaz	IN CLASS
15:40-16:30	Biochemical aspects of the metabolic syndrome	Dr. Betül Yılmaz	IN CLASS
16:40-17:30	Biochemical aspects of the metabolic syndrome	Dr. Betül Yılmaz	IN CLASS

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<b>2<sup>nd</sup> Week (12– 16 September, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>12 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	<b>PBL-1</b>	Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Bülent Sezgin Dr. Eren Sakallı	IN CLASS
11:40-12:30	<b>PBL-1</b>		
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>13 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Principles of hemodynamics	Dr. Hızır Kurtel	IN CLASS
11:40-12:30	Principles of hemodynamics	Dr. Hızır Kurtel	IN CLASS
13:40-14:30	Regulation of blood pressure	Dr. Hızır Kurtel	IN CLASS
14:40-15:30	Regulation of blood pressure	Dr. Hızır Kurtel	IN CLASS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>14 September</b>		
08:40-09:30	Principal symptom and general signs in cardiovascular disease	Dr. Osman Yeşildağ	IN CLASS
09:40-10:30	Principal symptom and general signs in cardiovascular disease	Dr. Osman Yeşildağ	IN CLASS
10:40-11:30	Examination of the heart and vessels	Dr. Osman Yeşildağ	IN CLASS

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11:40-12:30	Examination of the heart and vessels	Dr. Osman Yeşildağ	IN CLASS
13:40-14:30	Electrical fields, potential at a point	Dr. Cevdet Nacar	MS TEAMS
14:40-15:30	Fluid Mechanics	Dr. Banu Aydın Omay	MS TEAMS
15:40-16:30	Fluid Mechanics	Dr. Banu Aydın Omay	MS TEAMS
16:40-17:30	Introduction to cardiovascular pharmacology	Dr. Zafer Gören	MS TEAMS
<b>Thursday</b>	<b>15 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
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	Valvular heart disease	Dr. Beste Özben Sadıç	IN CLASS
14:40-15:30	Valvular heart disease	Dr. Beste Özben Sadıç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Inst. Emine Özerinç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Inst. Emine Özerinç	IN CLASS
<b>Friday</b>	<b>16 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	Pericarditis	Dr. Murat Sünbül	IN CLASS
13:40-14:30	Systemic hypertension and hypertensive heart disease	Dr. Yusuf Emre Gürel	IN CLASS
14:40-15:30	Diseases of the aorta and the peripheral blood vessels	Dr. Yusuf Emre Gürel	IN CLASS
15:40-16:30	Cardiovascular diseases in special population	Dr. Yusuf Emre Gürel	IN CLASS
16:40-17:30	STUDY TIME		
<b>3<sup>rd</sup> Week (19– 23 September, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>19 September</b>		

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08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	<b>PBL-2</b>	Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Bülent Sezgin Dr. Eren Sakallı	IN CLASS
11:40-12:30	<b>PBL-2</b>		
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
16:40-17:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Inst. Emine Özerinç	IN CLASS
<b>Tuesday</b>	<b>20 September</b>		
08:40-09:30	<b>ICS-3: Physical Examination of the Chest and Lungs</b> (presentation)	Dr.Bülent Sezgin	IN CLASS
09:40-10:30	<b>ICS-3: Physical Examination of the Chest and Lungs</b> (presentation)	Dr.Bülent Sezgin	IN CLASS
10:40-11:30	<b>ICS-3: Physical Examination of the Chest and Lungs</b> (presentation)	Dr.Bülent Sezgin	IN CLASS
11:40-12:30	<b>ICS-3: Physical Examination of the Chest and Lungs</b> (presentation)	Dr.Bülent Sezgin	IN CLASS
13:40-14:30	<b>ICS-3: Physical Examination of the Chest and Lungs</b> (practice)	Dr. Nilüfer Güzoğlu Dr.Bülent Sezgin	ICS LAB
14:40-15:30	<b>ICS-3: Physical Examination of the Chest and Lungs</b> (practice)	Dr. Nilüfer Güzoğlu Dr.Bülent Sezgin	ICS LAB
15:40-16:30	<b>ICS-3: Physical Examination of the Chest and Lungs</b> (practice)	Dr. Nilüfer Güzoğlu Dr.Bülent Sezgin	ICS LAB
16:40-17:30	<b>ICS-3: Physical Examination of the Chest and Lungs</b> (practice)	Dr. Nilüfer Güzoğlu Dr.Bülent Sezgin	ICS LAB
<b>Wednesday</b>	<b>21 September</b>		
08:40-09:30	Heart sounds	Dr. Özgür Kasımay	IN CLASS
09:40-10:30	ECG and its interpretation	Dr. Özgür Kasımay	IN CLASS
10:40-11:30	<b>Physiology LAB: ECG-1 (Group 1)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay	Multidis. Lab

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		Dr. Alper Yıldırım	
11:40-12:30	<b>Physiology LAB: ECG-1 (Group 2)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
13:40-14:30	<b>Physiology LAB: ECG-1 (Group 3)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
14:40-15:30	<b>Physiology LAB: ECG-1 (Group 4)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
15:40-16:30	<b>Physiology LAB: ECG-1 (Group 5)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
16:40-17:30	<b>Physiology LAB: ECG-1 (Group 6)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
<b>Thursday</b>	<b>22 September</b>		
08:40-09:30	Circulation through specific organs	Dr. Özgür Kasımay	IN CLASS
09:40-10:30	Arterial pulse	Dr. Özgür Kasımay	IN CLASS
10:40-11:30	<b>Physiology LAB: ECG-2 (Group 6)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
11:40-12:30	<b>Physiology LAB: ECG-2 (Group 5)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
13:40-14:30	<b>Physiology LAB: ECG-2 (Group 4)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
14:40-15:30	<b>Physiology LAB: ECG-2 (Group 3)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
15:40-16:30	<b>Physiology LAB: ECG-2 (Group 2)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
16:40-17:30	<b>Physiology LAB: ECG-2 (Group 1)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab

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<b>Friday</b>	<b>23 September</b>		
08:40-09:30	Regulation of blood flow	Dr. Özgür Kasımay	IN CLASS
09:40-10:30	Regulation of cardiac functions	Dr. Alper Yıldırım	IN CLASS
10:40-11:30	<b>Physiology LAB:</b> Blood pressure, heart sounds, pulse <b>(Group 1,3,5)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
11:40-12:30	<b>Physiology LAB:</b> Blood pressure, heart sounds, pulse <b>(Group 2,4,6)</b>	Dr. Ethem Gelir Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
13:40-14:30	Cardiac output	Dr. Alper Yıldırım	IN CLASS
14:40-15:30	Coronary circulation	Dr. Alper Yıldırım	IN CLASS
15:40-16:30	Physiological properties of the cardiac muscle	Dr. Alper Yıldırım	IN CLASS
16:40-17:30	STUDY TIME		
<b>4<sup>th</sup> Week (26– 30 September, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>26 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	<b>PBL-3</b>	Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Bülent Sezgin Dr. Eren Sakallı	IN CLASS
11:40-12:30	<b>PBL-3</b>		
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
16:40-17:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Inst. Emine Özerinç	IN CLASS
<b>Tuesday</b>	<b>27 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Cardiac action potentials	Dr. Hülya Cabadak	IN CLASS
10:40-11:30	STUDY TIME		

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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>28 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	STUDY TIME		
14:40-15:30	Epidemiology of cardiovascular diseases	Dr. Nimet Emel Lüleci	MS TEAMS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>29 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Approach to the patient with cardiovascular system disease	Dr. Ahmet Altuğ Çiğin	IN CLASS
10:40-11:30	Coronary artery disease	Dr. Mustafa Kürşat Tigen	IN CLASS
11:40-12:30	Coronary artery disease	Dr. Mustafa Kürşat Tigen	IN CLASS
13:40-14:30	Acute coronary syndrome	Dr. Mustafa Kürşat Tigen	IN CLASS
14:40-15:30	Acute coronary syndrome	Dr. Mustafa Kürşat Tigen	IN CLASS
15:40-16:30	Cardiac dysrhythmias	Dr. Ahmet Altuğ Çiğin	IN CLASS
16:40-17:30	Cardiac dysrhythmias	Dr. Ahmet Altuğ Çiğin	IN CLASS
<b>Friday</b>	<b>30 September</b>		
08:40-09:30	Neoplastic diseases of the heart & blood vessels	Dr. İpek Erbarut	IN CLASS
09:40-10:30	Valvular diseases of the heart	Dr. İpek Erbarut	IN CLASS

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10:40-11:30	Ischaemic heart disease	Dr. İpek Erbarut	IN CLASS
11:40-12:30	Ischaemic heart disease	Dr. İpek Erbarut	IN CLASS
13:40-14:30	<b>Pathology LAB: Heart and valvular diseases (Group 2,4,6)</b>	Dr. İpek Erbarut	Multidis. Lab
14:40-15:30	<b>Pathology LAB: Heart and valvular diseases (Group 1,3,5)</b>	Dr. İpek Erbarut	Multidis. Lab
	<b>Turkish For Medical Students-IV (Interactive Session)</b>	Inst. Emine Özeriç	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV (Interactive Session)</b>	Inst. Emine Özeriç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV (Interactive Session)</b>	Inst. Emine Özeriç	IN CLASS
<b>5th Week (03– 07 October, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>03 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	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özeriç	IN CLASS
14:40-15:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Rezzan Gülhan	IN CLASS
15:40-16:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Rezzan Gülhan	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV (Foreign Students)</b>	Inst. Emine Özeriç	IN CLASS
<b>Tuesday</b>	<b>04 October</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Myocardial scintigraphy and radionuclide ventriculography	Dr. Nahide Gökçora	IN CLASS
10:40-11:30	Clinical electrocardiography	Dr. Halil Ataş	IN CLASS
11:40-12:30	Clinical electrocardiography	Dr. Halil Ataş	IN CLASS
13:40-14:30	Syncope and sudden cardiac death	Dr. Halil Ataş	IN CLASS
14:40-15:30	Pulmonary hypertension in cardiology	Dr. Halil Ataş	IN CLASS
15:40-16:30	<b>Turkish For Medical Students-IV (Interactive Session)</b>	Inst. Emine Özeriç	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV (Interactive Session)</b>	Inst. Emine Özeriç	IN CLASS

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<b>Wednesday</b>	<b>05 October</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Vasculitis	Dr. Zeliha Leyla Cinel	IN CLASS
10:40-11:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel	IN CLASS
11:40-12:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel	IN CLASS
13:40-14:30	STUDY TIME		
14:40-15:30	Adult patient with chest pain. Primary care approach	Dr. Arzu Uzuner	MS TEAMS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>06 October</b>		
08:40-09:30	Approach to thromboembolic disorders	Dr. Osman Yeşildağ	MS TEAMS
09:40-10:30	Elderly patient with leg pain: Primary care approach	Dr. Gülrü Pemra Ünalın	MS TEAMS
10:40-11:30	Cardiac injury and markers	Dr. Önder Şirikçi	MS TEAMS
11:40-12:30	Cardiac injury and markers	Dr. Önder Şirikçi	MS TEAMS
13:40-14:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Inst. Emine Özerinç	MS TEAMS
14:40-15:30	<b>Turkish For Medical Students-IV</b> (Interactive Session)	Inst. Emine Özerinç	MS TEAMS
15:40-16:30	Development of the cardiovascular system	Dr. Özlem Tuğçe Kaya	MS TEAMS
16:40-17:30	Development of the cardiovascular system	Dr. Özlem Tuğçe Kaya	MS TEAMS
<b>Friday</b>	<b>07 October</b>		
08:40-09:30	<b>ICS-3:</b> Cardiovascular System Examination (tutor presentation –infant)	Dr.Nilüfer Güzoğlu	IN CLASS
09:40-10:30	<b>ICS-3:</b> Cardiovascular System Examination (tutor presentation – adult)	Dr.Bülent Sezgin	IN CLASS
10:40-11:30	<b>ICS-3:</b> Cardiovascular System Examination (tutor presentation – adult)	Dr.Bülent Sezgin	IN CLASS
11:40-12:30	<b>ICS-3:</b> Cardiovascular System Examination (tutor presentation – adult)	Dr.Bülent Sezgin	IN CLASS

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13:40-14:30	<b>ICS-3:</b> Cardiovascular system examination (practice)	Dr. Nilüfer Güzoğlu Dr.Amber Eker Dr.Bülent Sezgin	ICS LAB
14:40-15:30	<b>ICS-3:</b> Cardiovascular system examination (practice)		
15:40-16:30	<b>ICS-3:</b> Cardiovascular system examination (practice)		
16:40-17:30	<b>ICS-3:</b> Cardiovascular system examination (practice)		
<b>6<sup>th</sup> Week (10– 14 October, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</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	<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
	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft ) (MDCN-125-Medical Anthropology) (MDCN-128- Advanced Physical Exam Skills& Intro to Clinical Reasoning) (GFMS -101 - German for Medical Students)	Dr. Cemal Gürkan Inst. Mustafa Batıbeniz Dr. Deren Çeker Dr. Ayşe Atasoylu Inst. Aslihan Engin Bozoğlu	IN CLASS
16:40-17:30	<b>Turkish For Medical Students-IV</b> (Foreign Students)	Inst. Emine Özerinç	IN CLASS
	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft ) (MDCN-125-Medical Anthropology) (MDCN-128- Advanced Physical Exam Skills& Intro to Clinical Reasoning) (GFMS -101 - German for Medical Students)	Dr. Cemal Gürkan Inst. Mustafa Batıbeniz Dr. Deren Çeker Dr. Ayşe Atasoylu Inst. Aslihan Engin Bozoğlu	IN CLASS
<b>Tuesday</b>	<b>11 October</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Acute rheumatic fever	Dr. Figen Akalın	IN CLASS
10:40-11:30	Acute rheumatic fever	Dr. Figen Akalın	IN CLASS
11:40-12:30	Congenital acyanotic heart disease with left to right shunt	Dr. Figen Akalın	IN CLASS

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13:40-14:30	Congenital cyanotic heart disease	Dr. Figen Akalın	IN CLASS
14:40-15:30	Congenital heart disease with valvular obstruction or stenosis	Dr. Figen Akalın	IN CLASS
15:40-16:30	Pharmacotherapy of heart failure	Dr. Ahmet Akıcı	IN CLASS
16:40-17:30	Pharmacotherapy of heart failure	Dr. Ahmet Akıcı	IN CLASS
<b>Wednesday</b>	<b>12 October</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	<b>PBL-4</b>	Dr. Amber Eker Dr. Nilüfer Güzoğlu	IN CLASS
10:40-11:30	<b>PBL-4</b>	Dr. Bülent Sezgin Dr. Eren Sakallı	
11:40-12:30	Pharmacotherapy in peripheral arterial and venous occlusive diseases	Dr. Halil Eren Sakallı	IN CLASS
13:40-14:30	Pharmacotherapy of ischemic heart disease and MI	Dr. Ahmet Akıcı	IN CLASS
14:40-15:30	Pharmacotherapy of ischemic heart disease and MI	Dr. Ahmet Akıcı	IN CLASS
15:40-16:30	Pharmacotherapy of hyperlipidemias	Dr. Ahmet Akıcı	IN CLASS
16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>13 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-5</b>	Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Bülent Sezgin Dr. Eren Sakallı	IN CLASS
13:40-14:30	Genetic basis of the cardiovascular diseases	Dr. Mehmet Ali Söylemez	MS TEAMS
14:40-15:30	Radiology of the cardiovascular system	Dr Efe Soydemir	MS TEAMS
15:40-16:30	Microbiological approach to cardiovascular infections	Dr. Nurver Ülger	MS TEAMS
16:40-17:30	STUDY TIME		

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<b>Friday</b>	<b>14 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>7<sup>th</sup> Week (17– 21 October, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>17 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>18 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		

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15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>19 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>Thursday</b>	<b>20 October</b>		
08:40-09:30	<b>Y3C1 THEORETICAL EXAM</b>		
09:40-10:30			
10:40-11:30			
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>Friday</b>	<b>21 October</b>		
08:40-09:30			
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30			

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14:40-15:30			
15:40-16:30			
16:40-17:30			