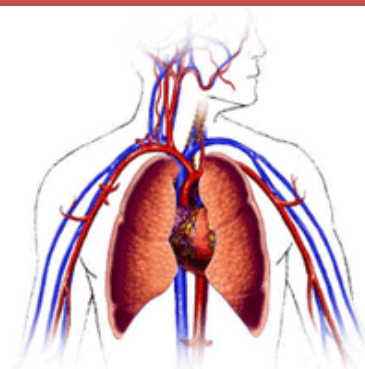




**MARMARA UNIVERSITY – EASTERN MEDITERRANEAN UNIVERSITY
INTERNATIONAL MEDICAL SCHOOL**



**CARDIOVASCULAR SYSTEM AND RELATED DISORDERS
YEAR 3 COURSE 1**

September 2nd, 2019 – October 18th, 2019

Year 3 Coordinators

Prof., Arzu Akşit İLKİ & Assoc. Prof., Pınar Mega TİBER & Assist. Prof., İlke AKÇAY

Module Coordinator

Prof., Özlem SARIKAYA
Inst. Dr. Berfu ÇERÇİ ÖNGÜN

Introduction to Clinician Skills (ICS) Coordinators

Prof., Pemra ÜNALAN
Assist. Prof., Bülent SEZGIN

Coordinator of Clinical Skill Lab.

Prof., Pemra ÜNALAN
Assist. Prof., Bülent SEZGIN

Coordinator of ICS Res. Lab.

Prof., Sibel SAKARYA
Assist. Prof., İlke AKÇAY

Coordinator of Multidisciplinary Students' Lab.

Assoc. Prof., Betül KARADEMİR
Assist. Prof., Mümtaz GÜRAN

Coordinator of Assessment Unit

Asist. Prof., Cevdet NACAR
Assist. Prof., Can ERZİK
Assist. Prof., Halil Eren SAKALLI

Vice-Chief Coordinators

Assessment

Asist. Prof., Cevdet NACAR
Assist. Prof., Halil Eren SAKALLI

Student Affairs

Asist. Prof., Can ERZİK
Assist. Prof., İlke AKÇAY
Assist. Prof., Mümtaz GÜRAN

Chief Coordinator

Assoc. Prof., Hasan YANANLI
Assist. Prof., Mümtaz GÜRAN

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

Prof., Berrak Ç. YEĞEN

Educational Consultant

Assoc. Prof., Mehmet Ali GÜLPINAR

Dean (EMU)

Prof., Nahide GÖKÇORA

Dean (MU)

Prof., Hakan Gündüz

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 : Growth, Development, Mental Health and Related Disorders

Year 3, Course 5: Urinary and Reproductive System and Related Disorders

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

Year 3, Course 5: Urinary and Reproductive System and Related Disorders

CARDIOVASCULAR SYSTEM AND RELATED DISORDERS

AIM and LEARNING OBJECTIVES of COURSE

Aim: 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.

Learning Objectives:

- To learn the morphology of the heart and the vessels
- To describe the basic mechanisms of circulation
- To define and discuss the factors impairing the normal function of the cardiovascular system and their pathological reflections on the occurrence of the diseases
- To learn the major symptoms and signs of the cardiovascular diseases and the principles of therapeutic approaches
- 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

ASSESSMENT SYSTEM

Module examination: Written exam at the end of the course and performance during the module

Practical examination: Practical exams at the end of course

Course examination: Written exam at the end of course

PROGRAM EVALUATION

Evaluation at the end of the course, is done both orally and by using structured evaluation forms

DEPARTMENTS PARTICIPATING IN COURSE-3.1 & MODULE-3.1

- Anatomy
- Biophysics
- Cardiology
- Cardiovascular Surgery
- Child Health and Diseases
- Family Medicine
- Histology and Embryology
- Medical Biochemistry

- Medical Genetics
- Medical Microbiology
- Nuclear Medicine
- Pathology
- Pharmacology
- Physiology
- Public Health
- Radiology

LECTURERS / TUTORS

Ahmet AKICI, Prof., Pharmacology
Alper YILDIRIM, Assoc. Prof., Physiology
Atila KARAALP, Prof., Pharmacology
Berfu ÇERÇİ ÖNGÜN, Instructor Dr., Anatomy
Berrak YEĞEN, Prof., Physiology
Beste ÖZBEN SADIÇ, Prof., Cardiology
Betül KARADEMİR, Assoc. Prof., Medical Biochemistry
Bülent MUTLU, Prof., Cardiology
Bülent SEZGİN, Assist. Prof., Internal Medicine
Derya TÜRELİ, Assoc. Prof., Radiology
Emine ÖZERİNÇ, Instructor, Turkish Language
Figen AKALIN, Prof., Child Health and Diseases
Gülru Pemra ÜNALAN, Prof., Family Medicine
Güner SÖYLEDİR, Prof., Medical Microbiology
Günseli Ayşe GARİP İNHAN, Assoc. Prof., Biophysics
Halil Eren SAKALLI, Assist. Prof., Pharmacology
Hızır KURTEL, Prof., Physiology

İlke AKÇAY, Assist. Prof., Biostatistics
İpek ERBARUT, Assist. Prof., Pathology
Masoud Afshani, Assist. Prof., Histology and Embryology
Mehmet Ali SÖYLEMEZ, Instructor Dr., Medical Genetics
Nahide GÖKÇORA, Prof., Nuclear Medicine
Necmettin Ömer ÖZDOĞMUŞ, Assoc. Prof., Anatomy
Nilgün ÇERİKÇİOĞLU, Prof., Medical Microbiology
Nimet Emel LÜLEÇİ, Prof., Public Health
Okan ERDOĞAN, Prof., Cardiology
Osman YEŞİLDAĞ, Prof., Cardiology
Özgür KASIMAY ÇAKIR, Assoc. Prof., Physiology
Özlem Tuğçe KAYA, Assist. Prof., Histology and Embryology
Pınar MEGA TİBER, Assoc. Prof., Biophysics
Yaşar İnci ALİCAN, Prof., Physiology
Zafer GÖREN, Prof., Pharmacology
Zeliha Leyla CİNEL, 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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SUMMARY OF THE COURSE 3.1			
Discipline	Lecture & Group Discussion	Multidisciplinary LAB. & Clinical Skills LAB. Practice	Total
Anatomy	4	1	5
Biophysics	11		11
Cardiology	28		28
Cardiovascular Surgery	1		1
Child Health and Diseases	5		5
Family Medicine	2		2
Histology and Embryology	5	1	6
Medical Biochemistry	10		10
Medical Genetics	1		1
Medical Microbiology	3		3
Nuclear Medicine	1		1
Pathology	7	1	8
Pharmacology	13		13
Physiology	18	3	21
Public Health	2		2
Radiology	1		1
Subtotal	112	6	118
PBL Module		10	10
ICS-3 Introduction	1		1
ICS-3 Clinical: Basic Medical Practices, Clinical Skills LAB		8	8
ICS-3 Research: Student Research Activity		4	4
TFMS301 – Turkish for Medical Students IV	20		20
Elective Courses	2		2
TOTAL	135	28	163

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	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
1st Week (02 - 06 September 2019)		
Monday	02 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
16:40-17:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
Tuesday	03 September	
08:40-09:30		
09:40-10:30	Introduction to the course and opening lecture	Dr. İlke Akçay
10:40-11:30	Heart and pericardium	Dr. Necmettin Ömer Özdoğmuş
11:40-12:30	Heart and pericardium	Dr. Necmettin Ömer Özdoğmuş
13:40-14:30	Heart and pericardium	Dr. Necmettin Ömer Özdoğmuş
14:40-15:30	Anatomy of the vessels (arterial and venous system)	Dr. Necmettin Ömer Özdoğmuş
15:40-16:30	Anatomy LAB: Heart and pericardium – Group A	Dr. Necmettin Ömer Özdoğmuş Dr. Berfu Çerçi Öngün
16:40-17:30	Anatomy LAB: Heart and pericardium – Group B	Dr. Necmettin Ömer Özdoğmuş Dr. Berfu Çerçi Öngün
Wednesday	04 September	
08:40-09:30	Physiological properties of the cardiac muscle	Dr. Yaşar İnci Alican
09:40-10:30	Regulation of cardiac functions	Dr. Yaşar İnci Alican
10:40-11:30	Arterial pulse	Dr. Özgür Kasımay Çakır
11:40-12:30	Regulation of blood flow	Dr. Özgür Kasımay Çakır
13:40-14:30	Circulation through specific organs	Dr. Özgür Kasımay Çakır
14:40-15:30	Heart sounds	Dr. Yaşar İnci Alican
15:40-16:30	Cardiac output	Dr. Alper Yıldırım
16:40-17:30	Coronary circulation	Dr. Alper Yıldırım
Thursday	05 September	
08:40-09:30	Cardiac cycle	Dr. Berrak Yegen
09:40-10:30	Cardiac cycle	Dr. Berrak Yegen
10:40-11:30	Principles of ECG	Dr. Berrak Yegen
11:40-12:30	Principles of ECG	Dr. Berrak Yegen

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13:40-14:30	ECG and its interpretation	Dr. Özgür Kasımay Çakır
14:40-15:30	Physiology LAB: Blood pressure, heart sounds, pulse (Groups A&B)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
15:40-16:30	Physiology LAB: Blood pressure, heart sounds, pulse (Groups C&D)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
16:40-17:30	STUDY TIME	
Friday	06 September	
08:40-09:30	Physiology LAB: ECG-1 (Group A)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
09:40-10:30	Physiology LAB: ECG-2 (Group A)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
10:40-11:30	Physiology LAB: ECG-1 (Group B)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
11:40-12:30	Physiology LAB: ECG-2 (Group B)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
13:40-14:30	Physiology LAB: ECG-1 (Group C)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
14:40-15:30	Physiology LAB: ECG-2 (Group C)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
15:40-16:30	Physiology LAB: ECG-1 (Group D)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
16:40-17:30	Physiology LAB: ECG-2 (Group D)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
2nd Week (09 - 13 September 2019)		
Monday	09 September	
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	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
16:40-17:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
Tuesday	10 September	
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	PBL Module – 1	
14:40-15:30	PBL Module – 1	
15:40-16:30	ICS-3: Introduction to ICS-3	Dr. Bülent Sezgin
16:40-17:30	STUDY TIME	

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Wednesday	11 September	
08:40-09:30	Histology of the heart	Dr. Özlem Tuğçe Kaya
09:40-10:30	Histology of blood vessels	Dr. Özlem Tuğçe Kaya
10:40-11:30	Histology of blood vessels	Dr. Özlem Tuğçe Kaya
11:40-12:30	Development of the cardiovascular system	Dr. Özlem Tuğçe Kaya
13:40-14:30	Development of the cardiovascular system	Dr. Özlem Tuğçe Kaya
14:40-15:30	Histology LAB: Histology of heart, blood vessels - Group A	Dr. Özlem Tuğçe Kaya Dr. Masoud Afshani
15:40-16:30	Histology LAB: Histology of heart, blood vessels - Group B	Dr. Özlem Tuğçe Kaya Dr. Masoud Afshani
16:40-17:30	STUDY TIME	
Thursday	12 September	
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	Viscosity, laminar and turbulent flow	Dr. Pınar Mega Tiber
14:40-15:30	Viscosity, laminar and turbulent flow	Dr. Pınar Mega Tiber
15:40-16:30	Bernouilli's equation, the role of gravity in the circulation	Dr. Pınar Mega Tiber
16:40-17:30	STUDY TIME	
Friday	13 September	
08:40-09:30	Principles of hemodynamics	Dr. Hızır Kurtel
09:40-10:30	Principles of hemodynamics	Dr. Hızır Kurtel
10:40-11:30	Regulation of blood pressure	Dr. Hızır Kurtel
11:40-12:30	Regulation of blood pressure	Dr. Hızır Kurtel
13:40-14:30	Regulation of blood pressure	Dr. Hızır Kurtel
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
3rd Week (16 - 20 September 2019)		
Monday	16 September	
08:40-09:30	STUDY TIME	
09:40-10:30	Lipoprotein metabolism	Dr. Betül Karademir
10:40-11:30	Lipoprotein metabolism	Dr. Betül Karademir
11:40-12:30	Lipoprotein metabolism	Dr. Betül Karademir
13:40-14:30	Vascular events	Dr. Betül Karademir
14:40-15:30	Hyperlipidemias and atherosclerosis	Dr. Betül Karademir
15:40-16:30	Hyperlipidemias and atherosclerosis	Dr. Betül Karademir
16:40-17:30	STUDY TIME	

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Tuesday	17 September	
08:40-09:30	Cardiac injury and markers	Dr. Betül Karademir
09:40-10:30	Cardiac injury and markers	Dr. Betül Karademir
10:40-11:30	Biochemical aspects of the metabolic syndrome	Dr. Betül Karademir
11:40-12:30	Biochemical aspects of the metabolic syndrome	Dr. Betül Karademir
13:40-14:30	PBL Study Time	
14:40-15:30	PBL Module – 2	
15:40-16:30	PBL Module – 2	
16:40-17:30	Introduction to cardiovascular pharmacology	Dr. Zafer Gören
Wednesday	18 September	
08:40-09:30	STUDY TIME	
09:40-10:30	ICS-3 Research: Student Research Activity	Dr. İlke Akçay
10:40-11:30	ICS-3 Research: Student Research Activity	Dr. İlke Akçay
11:40-12:30	Approach to the patient with cardiovascular system disease	Dr. Beste Özben Sadıç
13:40-14:30	Principal symptom and general signs in cardiovascular disease	Dr. Beste Özben Sadıç
14:40-15:30	Principal symptom and general signs in cardiovascular disease	Dr. Beste Özben Sadıç
15:40-16:30	Diagnostic methods in cardiology	Dr. Beste Özben Sadıç
16:40-17:30	Diagnostic methods in cardiology	Dr. Beste Özben Sadıç
Thursday	19 September	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	Coronary artery disease	Dr. Beste Özben Sadıç
11:40-12:30	Coronary artery disease	Dr. Beste Özben Sadıç
13:40-14:30	Acute coronary syndrome	Dr. Beste Özben Sadıç
14:40-15:30	Acute coronary syndrome	Dr. Beste Özben Sadıç
15:40-16:30	Microbiological approach to cardiovascular infections	Dr. Güner Söyledir
16:40-17:30	Microbiological approach to cardiovascular infections	Dr. Güner Söyledir
Friday	20 September	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	Heart failure and cardiogenic shock	Dr. Beste Özben Sadıç
11:40-12:30	Heart failure and cardiogenic shock	Dr. Beste Özben Sadıç
13:40-14:30	Radiology of the cardiovascular system	Dr. Derya Türel
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
4th Week (23 -27 September 2019)		

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Monday	23 September	
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	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
16:40-17:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
Tuesday	24 September	
08:40-09:30	Clinical electrocardiography	Dr. Okan Erdoğan
09:40-10:30	Clinical electrocardiography	Dr. Okan Erdoğan
10:40-11:30	Cardiac dysrhythmias	Dr. Okan Erdoğan
11:40-12:30	Cardiac dysrhythmias	Dr. Okan Erdoğan
13:40-14:30	PBL Study Time	
14:40-15:30	PBL Module – 3	
15:40-16:30	PBL Module – 3	
16:40-17:30	STUDY TIME	
Wednesday	25 September	
08:40-09:30	Valvular heart disease	Dr. Bülent Mutlu
09:40-10:30	Valvular heart disease	Dr. Bülent Mutlu
10:40-11:30	Pulmonary hypertension in cardiology	Dr. Bülent Mutlu
11:40-12:30	Infective endocarditis	Dr. Bülent Mutlu
13:40-14:30	Syncope and sudden cardiac death	Dr. Okan Erdoğan
14:40-15:30	Cardiomyopathies and myocarditis	Dr. Okan Erdoğan
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	26 September	
08:40-09:30	Valvular diseases of the heart	Dr. İpek Erbarut
09:40-10:30	Neoplastic diseases of the heart & blood vessels	Dr. İpek Erbarut
10:40-11:30	Ischaemic heart disease	Dr. İpek Erbarut
11:40-12:30	Ischaemic heart disease	Dr. İpek Erbarut
13:40-14:30	Pathology LAB: Heart and valvular diseases - Group A	Dr. İpek Erbarut
14:40-15:30	Pathology LAB: Heart and valvular diseases - Group B	Dr. İpek Erbarut
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	27 September	
08:40-09:30	Congenital acyanotic heart disease with left to right shunt	Dr. Figen Akalın
09:40-10:30	Congenital heart disease with valvular obstruction or stenosis	Dr. Figen Akalın

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10:40-11:30	Acute rheumatic fever	Dr. Figen Akalın
11:40-12:30	Acute rheumatic fever	Dr. Figen Akalın
13:40-14:30	Congenital cyanotic heart disease	Dr. Figen Akalın
14:40-15:30	Pharmacotherapy in peripheral arterial occlusive diseases	Dr. Halil Eren Sakallı
15:40-16:30	Pharmacotherapy in venous thromboembolic disease	Dr. Halil Eren Sakallı
16:40-17:30	STUDY TIME	
5th Week (30 September - 04 October 2019)		
Monday	30 September	
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	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
16:40-17:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
Tuesday	01 October	
08:40-09:30	Examination of the heart and vessels	Dr. Osman Yeşildağ
09:40-10:30	Examination of the heart and vessels	Dr. Osman Yeşildağ
10:40-11:30	Systemic hypertension and hypertensive heart disease	Dr. Osman Yeşildağ
11:40-12:30	Systemic hypertension and hypertensive heart disease	Dr. Osman Yeşildağ
13:40-14:30	Nosocomial fungal infections	Dr. Nilgün Çerikçioğlu
14:40-15:30	PBL Study Time	
15:40-16:30	PBL Module – 4	
16:40-17:30	PBL Module – 4	
Wednesday	02 October	
08:40-09:30	Pericarditis	Dr. Osman Yeşildağ
09:40-10:30	Cardiovascular diseases in special population	Dr. Osman Yeşildağ
10:40-11:30	Diseases of the aorta and the peripheral blood vessels	Dr. Osman Yeşildağ
11:40-12:30	Approach to thromboembolic disorders	Dr. Osman Yeşildağ
13:40-14:30	Adult patient with chest pain. Primary care approach	Dr. Gülru Pemra Ünalın
14:40-15:30	Elderly patient with leg pain: Primary care approach	Dr. Gülru Pemra Ünalın
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	03 October	
08:40-09:30	STUDY TIME	
09:40-10:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel

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10:40-11:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel
11:40-12:30	Vasculitis	Dr. Zeliha Leyla Cinel
13:40-14:30	ICS-3 Research: Student Research Activity	Dr. İlke Akçay
14:40-15:30	ICS-3 Research: Student Research Activity	Dr. İlke Akçay
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	04 October	
08:40-09:30	STUDY TIME	
09:40-10:30	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı
10:40-11:30	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı
11:40-12:30	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı
13:40-14:30	Epidemiology of coronary heart disease	Dr. Nimet Emel Lüleci
14:40-15:30	Epidemiology of hypertension and rheumatic fever	Dr. Nimet Emel Lüleci
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
6th Week (07 - 11 October, 2019)		
Monday	07 October	
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	Turkish for Medical Students - IV	Inst. Emine Özerinç
14:40-15:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
15:40-16:30	Turkish for Medical Students - IV Elective Courses	Inst. Emine Özerinç
16:40-17:30	Turkish for Medical Students - IV Elective Courses	Inst. Emine Özerinç
Tuesday	08 October	
08:40-09:30	Electrical fields, potential at a point	Dr. Günseli Ayşe Garip İnhan
09:40-10:30	Electrical fields, potential at a point	Dr. Günseli Ayşe Garip İnhan
10:40-11:30	Cardiac action potentials	Dr. Günseli Ayşe Garip İnhan
11:40-12:30	Principles of hemodynamics	Dr. Günseli Ayşe Garip İnhan
13:40-14:30	PBL Study Time	
14:40-15:30	PBL Module – 5	
15:40-16:30	PBL Module – 5	
16:40-17:30	STUDY TIME	
Wednesday	09 October	
08:40-09:30	Principles of hemodynamics	Dr. Günseli Ayşe Garip İnhan

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09:40-10:30	Principles of electrocardiography	Dr. Günseli Ayşe Garip İnan
10:40-11:30	Principles of electrocardiography	Dr. Günseli Ayşe Garip İnan
11:40-12:30	Principles of electrocardiography	Dr. Günseli Ayşe Garip İnan
13:40-14:30	Myocardial scintigraphy and radionuclide ventriculography	Dr. Nahide Gökçora
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	10 October	
08:40-09:30	Pharmacotherapy of heart failure	Dr. Atila Karaalp
09:40-10:30	Pharmacotherapy of heart failure	Dr. Atila Karaalp
10:40-11:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Atila Karaalp
11:40-12:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Atila Karaalp
13:40-14:30	Genetic basis of the cardiovascular diseases	Dr. Mehmet Ali Söylemez
14:40-15:30	Pharmacotherapy of hyperlipidemias	Dr. Atila Karaalp
15:40-16:30	Pharmacotherapy of ischemic heart disease and MI	Dr. Halil Eren Sakallı
16:40-17:30	Pharmacotherapy of ischemic heart disease and MI	Dr. Halil Eren Sakallı
Friday	11 October	
08:40-09:30	ICS-3: Basic Clinical Skills LAB: Cardiovascular System	Dr. Bülent Sezgin
09:40-10:30	ICS-3: Basic Clinical Skills LAB: Cardiovascular System	
10:40-11:30	ICS-3: Basic Clinical Skills LAB: Cardiovascular System	
11:40-12:30	ICS-3: Basic Clinical Skills LAB: Cardiovascular System	
13:40-14:30	ICS-3: Basic Clinical Skills LAB: Cardiovascular System	Dr. Bülent Sezgin
14:40-15:30	ICS-3: Basic Clinical Skills LAB: Cardiovascular System	
15:40-16:30	ICS-3: Basic Clinical Skills LAB: Cardiovascular System	
16:40-17:30	ICS-3: Basic Clinical Skills LAB: Cardiovascular System	
7th Week (14 - 18 October 2019)		
Monday	14 October	
08:40-09:30	PRACTICAL EXAM	
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		
Tuesday	15 October	
08:40-09:30	PRACTICAL EXAM	
09:40-10:30		

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10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Wednesday	16 October	
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	
Thursday	17 October	
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	
Friday	18 October	
08:40-09:30		
09:40-10:30	Y3C1 THEORETICAL EXAM (starts at 9:30)	
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		