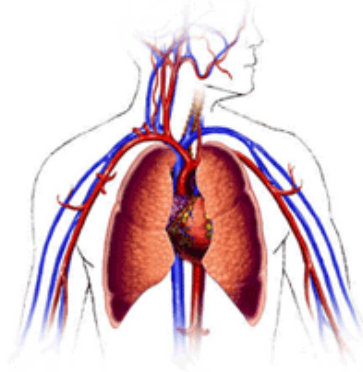




**MARMARA UNIVERSITY – EASTERN MEDITERRANEAN UNIVERSITY
INTERNATIONAL MEDICAL SCHOOL**



**CARDIOVASCULAR SYSTEM AND RELATED DISORDERS
YEAR 3 COURSE 1
September 3rd, 2018 – October 19th, 2018**

Year 3 Coordinators

Prof., Arzu Akşit İLKI & Assoc. Prof., Pinar 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., H. Eren SAKALLI
Assist. Prof., M. Hasan TOPER

Vice-Chief Coordinators

Assessment

Asist. Prof., Cevdet NACAR
Assist. Prof., H. 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
Ayşe GARİP, Assoc. Prof., Biophysics
Berfu ÇERÇİ ÖNGÜN, Instructor, Anatomy
Berrak YEĞEN, Prof., Physiology
Beste ÖZBEN, Assoc. Prof., Cardiology
Betül KARADEMİR, Assoc. Prof., Medical Biochemistry
Bülent MUTLU, Prof., Cardiology
Bülent SEZGİN, Assist. Prof., Internal Medicine
Cemal GÜRKAN, Instructor, Forensic Sciences
Cihan TÜCCAR, Instructor, ICS Clinical
Derya TÜRELİ, Assoc. Prof., Radiology
Didem RIFKI, Instructor, ICS Clinical
Emel LÜLEÇİ, Prof., Public Health
Emine ÖZERİNÇ, Instructor, Turkish Language

Hızır KURTEL, Prof., Physiology
İnci ALİCAN, Prof., Physiology
Kemal TÜRKÖZ, Assoc. Prof., Psychology
Leyla CİNEL, Prof., Pathology
Masoud Afshani, Assist. Prof., Histology and Embryology
Mehmet Ali SÖYLEMEZ, Instructor, Medical Genetics
Mehmet Kemal BERKMAN, Prof., Pharmacology
Nahide GÖKÇORA, Prof., Nuclear Medicine
Necmettin Ömer ÖZDOĞMUŞ, Assoc. Prof., Anatomy
Nurtane KARAGİL, Instructor, Arts and Crafts
Okan ERDOĞAN, Prof., Cardiology
Osman YEŞİLDAĞ, Prof., Cardiology
Özge Cumaoğulları EKER, Instructor, ICS Research
Özgür KASIMAY ÇAKIR, Assoc. Prof., Physiology
Özlem Tuğçe ÇİLİNGİR, Instructor, Histology and Embryology

Figen AKALIN, Prof., Child Health and Diseases
Güner SÖYLELİR, Prof., Medical Microbiology
Halil Eren SAKALLI, Assist. Prof., Pharmacology
Hande TUĞCAN, Instructor, Indian Dance

Pemra ÜNALAN, Prof., Family Medicine
Pınar MEGA TİBER, Assoc. Prof., Biophysics
Saime BATIREL, Assist. Prof., Medical Biochemistry
Yasemin KURTOĞLU, Instructor, Aerial Fitness
Zafer GÖREN, Prof., Pharmacology

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	2	6
Biophysics	11		11
Cardiology	28		28
Cardiovascular Surgery	1		1
Child Health and Diseases	5		5
Family Medicine	2		2
Histology and Embryology	5	2	7
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	1		1
Radiology	1		1
Subtotal	111	8	119
PBL Module		10	10
ICS-3: Basic Medical Practices, Clinical Skills LAB		8	8
ICS-3 Research: Student Research Activity		4	4
TFMS301 – Turkish for Medical Students IV	21	8	29
Elective Courses	4		4
TOTAL	136	38	174

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	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
1st Week (03 - 07 September 2018)		
Monday	3 September	
08:40-09:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
10:40-11:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
11:40-12:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Tuesday	4 September	
08:40-09:30	Introduction to the course and opening lecture	Dr. İlke Akçay
09:40-10:30	Heart and pericardium	Dr. Necmettin Ömer Özdoğan
10:40-11:30	Heart and pericardium	Dr. Necmettin Ömer Özdoğan
11:40-12:30	Heart and pericardium	Dr. Necmettin Ömer Özdoğan
13:40-14:30	Anatomy of the vessels (arterial and venous system)	Dr. Necmettin Ömer Özdoğan
14:40-15:30	Anatomy LAB: Heart and pericardium	Dr. Necmettin Ömer Özdoğan Dr. Berfu Çerçi Öngün
15:40-16:30	Anatomy LAB: Heart and pericardium	Dr. Necmettin Ömer Özdoğan Dr. Berfu Çerçi Öngün
16:40-17:30		
Wednesday	5 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		
15:40-16:30		
16:40-17:30		
Thursday	6 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	Heart sounds	Dr. Yaşar İnci Alican
11:40-12:30	Viscosity , laminar and turbulent flow	Dr. Pınar Mega Tiber

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13:40-14:30	Viscosity , laminar and turbulent flow	Dr. Pinar Mega Tiber
14:40-15:30	Bernouilli's equation, the role of gravity in the circulation	Dr. Pinar Mega Tiber
15:40-16:30		
16:40-17:30		
Friday	7 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	Dr. Özlem Tuğçe Kaya Dr. Masoud Afshani
15:40-16:30	Histology LAB: Histology of heart, blood vessels	Dr. Özlem Tuğçe Kaya Dr. Masoud Afshani
16:40-17:30		
	2nd Week (10 - 14 September 2018)	
Monday	10 September	
08:40-09:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
10:40-11:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
11:40-12:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Tuesday	11 September	
08:40-09:30	Cardiac injury and markers	Dr. Saime Batirel
09:40-10:30	Cardiac injury and markers	Dr. Saime Batirel
10:40-11:30	Biochemical aspects of the metabolic syndrome	Dr. Saime Batirel
11:40-12:30	Biochemical aspects of the metabolic syndrome	Dr. Saime Batirel
13:40-14:30	PBL Study Time	
14:40-15:30	PBL-1	Dr. Bülent Sezgin Dr. Halil Eren Sakallı
15:40-16:30	PBL-1	Dr. Hasan Topper Dr. Didem Rıfki
16:40-17:30	ICS-3: Introduction to ICS-3	Dr. Bülent Sezgin
Wednesday	12 September	
08:40-09:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
10:40-11:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç

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11:40-12:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Thursday	13 September	
08:40-09:30		
09:40-10:30	Approach to the patient with cardiovascular system disease	Dr. Beste Özben Sadıç
10:40-11:30	Principal symptom and general signs in cardiovascular disease	Dr. Beste Özben Sadıç
11:40-12:30	Principal symptom and general signs in cardiovascular disease	Dr. Beste Özben Sadıç
13:40-14:30	Diagnostic methods in cardiology	Dr. Beste Özben Sadıç
14:40-15:30	Diagnostic methods in cardiology	Dr. Beste Özben Sadıç
15:40-16:30	Epidemiology of hypertension and rheumatic fever	Dr. Nimet Emel Lüleci
16:40-17:30		
Friday	14 September	
08:40-09:30		
09:40-10:30	Coronary artery disease	Dr. Beste Özben Sadıç
10:40-11:30	Coronary artery disease	Dr. Beste Özben Sadıç
11:40-12:30	Heart failure and cardiogenic shock	Dr. Beste Özben Sadıç
13:40-14:30	Heart failure and cardiogenic shock	Dr. Beste Özben Sadıç
14:40-15:30	Acute coronary syndrome	Dr. Beste Özben Sadıç
15:40-16:30	Acute coronary syndrome	Dr. Beste Özben Sadıç
16:40-17:30		
3rd Week (17 - 21 September 2018)		
Monday	17 September	
08:40-09:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
09:40-10:30	Turkish Placement Test	Inst. Emine Özerinç
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	18 September	
08:40-09:30	Introduction to cardiovascular pharmacology	Dr. Zafer Gören
09:40-10:30	Cardiac cycle	Dr. Berrak Yegen
10:40-11:30	Cardiac cycle	Dr. Berrak Yegen
11:40-12:30	Principles of ECG	Dr. Berrak Yegen

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13:40-14:30	Principles of ECG	Dr. Berrak Yegen
14:40-15:30	PBL Study Time	
15:40-16:30	PBL-2	Dr. Bülent Sezgin Dr. Halil Eren Sakallı
16:40-17:30	PBL-2	Dr. Hasan Topar Dr. Didem Rıfki
Wednesday	19 September	
08:40-09:30	Regulation of blood flow	Dr. Özgür Kasımay Çakır
09:40-10:30	ECG and its interpretation	Dr. Özgür Kasımay Çakır
10:40-11:30	Circulation through specific organs	Dr. Özgür Kasımay Çakır
11:40-12:30	Arterial pulse	Dr. Özgür Kasımay Çakır
13:40-14:30	Physiology LAB: Blood pressure, heart sounds, pulse (Groups A & B)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
14:40-15:30	Physiology LAB: Blood pressure, heart sounds, pulse (Groups C & D)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
15:40-16:30		
16:40-17:30		
Thursday	20 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-1 (Group B)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
10:40-11:30	Physiology LAB: ECG-1 (Group C)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
11:40-12:30	Physiology LAB: ECG-1 (Group D)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
13:40-14:30	Physiology LAB: ECG-2 (Group A)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
14:40-15:30	Physiology LAB: ECG-2 (Group B)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
15:40-16:30	Physiology LAB: ECG-2 (Group C)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
16:40-17:30	Physiology LAB: ECG-2 (Group D)	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
Friday	21 September	
08:40-09:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
10:40-11:30	Cardiac output	Dr. Alper Yıldırım
11:40-12:30	Coronary circulation	Dr. Alper Yıldırım
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		

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4 th Week (24 -28 September 2018)		
Monday	24 September	
08:40-09:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
10:40-11:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
11:40-12:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
13:40-14:30	Examination of the heart and vessels	Dr. Osman Yeşildağ
14:40-15:30	Examination of the heart and vessels	Dr. Osman Yeşildağ
15:40-16:30	Systemic hypertension and hypertensive heart disease	Dr. Osman Yeşildağ
16:40-17:30	Systemic hypertension and hypertensive heart disease	Dr. Osman Yeşildağ
Tuesday	25 September	
08:40-09:30	Pericarditis	Dr. Osman Yeşildağ
09:40-10:30	Cardiomyopathies and myocarditis	Dr. Osman Yeşildağ
10:40-11:30	Cardiovascular diseases in special population	Dr. Osman Yeşildağ
11:40-12:30	Diseases of the aorta and the peripheral blood vessels	Dr. Osman Yeşildağ
13:40-14:30	Approach to thromboembolic disorders	Dr. Osman Yeşildağ
14:40-15:30	Adult patient with chest pain. Primary care approach	Dr. Gülru Pemra Ünalın
15:40-16:30	Elderly patient with leg pain: Primary care approach	Dr. Gülru Pemra Ünalın
16:40-17:30		
Wednesday	26 September	
08:40-09:30	PBL-3	Dr. Bülent Sezgin Dr. Halil Eren Sakallı
09:40-10:30	PBL-3	Dr. Hasan Toper Dr. Didem Rıfki
10:40-11:30	ICS-3 Research: Student Research Activity	Dr. İlke Akçay Dr. Özge Eker
11:40-12:30	ICS-3 Research: Student Research Activity	Dr. İlke Akçay Dr. Özge Eker
13:40-14:30	Vascular events	Dr. Betül Karademir
14:40-15:30	Lipoprotein metabolism	Dr. Betül Karademir
15:40-16:30	Lipoprotein metabolism	Dr. Betül Karademir
16:40-17:30	Lipoprotein metabolism	Dr. Betül Karademir
Thursday	27 September	
08:40-09:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students – IV (Interactive Session)	Inst. Emine Özerinç
10:40-11:30	Hyperlipidemias and atherosclerosis	Dr. Betül Karademir
11:40-12:30	Hyperlipidemias and atherosclerosis	Dr. Betül Karademir
13:40-14:30	Pharmacotherapy of heart failure	Dr. Atila Karaalp
14:40-15:30	Pharmacotherapy of heart failure	Dr. Atila Karaalp
15:40-16:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Atila Karaalp
16:40-17:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Atila Karaalp

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14:40-15:30	Syncope and sudden cardiac death	Dr. Okan Erdoğan
15:40-16:30	ICS-3 Research: Student Research Activity	Dr. İlke Akçay Dr. Özge Eker
16:40-17:30	ICS-3 Research: Student Research Activity	Dr. İlke Akçay Dr. Özge Eker
Thursday	4 October	
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	Electrical fields, potential at a point	Dr. Günseli Ayşe Garip İhan
14:40-15:30	Electrical fields, potential at a point	Dr. Günseli Ayşe Garip İhan
15:40-16:30	Cardiac action potentials	Dr. Günseli Ayşe Garip İhan
16:40-17:30	Principles of hemodynamics	Dr. Günseli Ayşe Garip İhan
Friday	5 October	
08:40-09:30	Principles of hemodynamics	Dr. Günseli Ayşe Garip İhan
09:40-10:30	Principles of electrocardiography	Dr. Günseli Ayşe Garip İhan
10:40-11:30	Principles of electrocardiography	Dr. Günseli Ayşe Garip İhan
11:40-12:30	Principles of electrocardiography	Dr. Günseli Ayşe Garip İhan
13:40-14:30	Genetic basis of the cardiovascular diseases	Dr. Mehmet Ali Söylemez
14:40-15:30	Myocardial scintigraphy and radionuclide ventriculography	Dr. Nahide Gökçora
15:40-16:30		
16:40-17:30		
6th Week (08 - 12 October, 2018)		
Monday	8 October	
08:40-09:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
09:40-10:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
10:40-11:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
11:40-12:30	Turkish for Medical Students - IV	Inst. Emine Özerinç
13:40-14:30		
14:40-15:30		
15:40-16:30	MDCN181 – Th. and Applied Forensic Sciences MDCN182 – Art & Craft for Medicine Students	Dr. Cemal Gürkan Inst. Nurtane Karagil
16:40-17:30	MDCN186 – Modern Indian Dance Course MDCN187 – Aerial Fitness & High Int. Interval Tr.	Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	9 October	
08:40-09:30		
09:40-10:30		
10:40-11:30	Microbiological approach to cardiovascular infections	Dr. Güner Söyledir
11:40-12:30	Microbiological approach to cardiovascular infections	Dr. Güner Söyledir

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13:40-14:30	Nosocomial fungal infections	Dr. Güner Söyledir
14:40-15:30	PBL Study Time	
15:40-16:30	PBL-5	Dr. Bülent Sezgin Dr. Halil Eren Sakallı
16:40-17:30	PBL-5	Dr. Hasan Toper Dr. Didem Rıfki
Wednesday	10 October	
08:40-09:30	Valvular diseases of the heart	Dr. Kemal Türköz
09:40-10:30	Neoplastic diseases of the heart & blood vessels	Dr. Kemal Türköz
10:40-11:30	PATHOLOGY LAB: Heart and valvular diseases-Group A	Dr. Kemal Türköz Dr. Hasan Toper
11:40-12:30	PATHOLOGY LAB: Heart and valvular diseases-Group B	Dr. Kemal Türköz Dr. Hasan Toper
13:40-14:30	Pharmacotherapy of ischemic heart disease and MI	Dr. Kemal Berkman
14:40-15:30	Pharmacotherapy of ischemic heart disease and MI	Dr. Kemal Berkman
15:40-16:30	Ischaemic heart disease	Dr. Kemal Türköz
16:40-17:30	Ischaemic heart disease	Dr. Kemal Türköz
Thursday	11 October	
08:40-09:30		
09:40-10:30		
10:40-11:30	Pharmacotherapy in peripheral arterial occlusive diseases	Dr. Halil Eren Sakallı
11:40-12:30	Pharmacotherapy in venous thromboembolic disease	Dr. Halil Eren Sakallı
13:40-14:30	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı
14:40-15:30	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı
15:40-16:30	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı
16:40-17:30		
Friday	12 October	
08:40-09:30	ICS-3: Basic Clinical Skills LAB: Cardiovascular System	Dr. Bülent Sezgin Dr. Didem Rıfki Dr. Cihan Tüccar
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 Dr. Didem Rıfki Dr. Cihan Tüccar Dr. Halil Eren Sakallı Dr. Hasan Toper
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 (15 - 19 October 2018)		
Monday	15 October	
08:40-09:30	PRACTICAL EXAM	
09:40-10:30		
10:40-11:30		

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11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Tuesday	16 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		
Wednesday	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	
Thursday	18 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	19 October	
08:40-09:30	Y3C1 THEORETICAL EXAM (starts at 9:30)	
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		