



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

Year 3 Coordinators

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

Module Coordinator Assoc. Prof., Özlem SARIKAYA & Assist. Prof., H. Eren SAKALLI	Introduction to Clinician Skills (ICS) Coordinators Assoc. Prof., Pemra ÜNALAN & Assist. Prof., Bülent SEZGIN
Coordinator of Clinical Skill Lab. Assoc. Prof., Pemra ÜNALAN & Inst., Berfu Çerçi ÖNGÜN	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 Unite Asist. Prof., Cevdet NACAR & Assist. Prof., Mümtaz GÜRAN & Assist. Prof., H. Eren SAKALLI
Vice-Chief Coordinators	
Assessment Asist. Prof., Cevdet NACAR & Assist. Prof., Mümtaz GÜRAN	Student Affairs Asist. Prof., Can ERZİK & Assist. Prof., İlke AKÇAY
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, Assit. Prof., Physiology
 Atila KARAALP, Prof., Pharmacology
 Aydın KARAKUZU, Prof., Cardiovascular Surgery
 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 SEZGİN, Assist. Prof., Internal Medicine
 Cemal GÜRKAN, Instructor, Forensic Sciences
 Duygu GENÇALP, Instructor, Medical Biochemistry
 Emel LÜLEÇİ, Prof., Public Health
 Emine ÖZERİNÇ, Instructor, Turkish Language
 Figen AKALIN, Prof., Child Health and Diseases

Koray AK, Prof, Cardiovascular Surgery
 Leyla CİNEL, Prof., Pathology
 Masoud Afshani, Instructor, Histology and Embryology
 Mehmet Ali SÖYLEMEZ, Instructor, Medical Genetics
 Mehmet Kemal BERKMAN, Prof., Pharmacology
 Mevhibe HOCAOĞLU, Assist. Prof., Public Health
 Mümtaz GÜRAN, Assist. Prof. Medical Microbiology
 Mustafa Kürşat TİGEN, Prof., Cardiology
 Nahide GÖKÇORA, Prof., Nuclear Medicine
 Nilgün ÇERİKÇİOĞLU, Prof., Medical Microbiology
 Nurtane KARAGİL, Instructor, Arts and Crafts
 Okan ERDOĞAN, Prof., Cardiology
 Ömer ÖZDOĞMUŞ, Assoc. Prof., Anatomy
 Onur BUĞDAYCI, Assist. Prof., Radiology
 Osman YEŞİLDAĞ, Prof., Cardiology

Güner SÖYLEDİR, Prof., Medical Microbiology
Halil Eren SAKALLI, Assist. Prof., Pharmacology
Hasan TOPER, Assist. Prof., Pathology
Hızır KURTEL, Prof., Physiology
İlke AKÇAY, Assist. Prof., Biostatistics
İnci ALİCAN, Prof., Physiology
İpek ERBARUT, Assist. Prof., Pathology

Özgür KASIMAY ÇAKIR, Assoc. Prof., Physiology
Özlem Tuğçe ÇİLİNGİR, Instructor, Histology and Embryology
Pemra ÜNALAN, Prof., Family Medicine
Pınar MEGA TİBER, Assist. Prof., Biophysics
Saime BATIREL, Assist. Prof., Medical Biochemistry
Umut ALTUNÇ, Instructor, Pediatrics
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		17	17
ICS-3 Research: Student Research Activity		4	4
Communication in Turkish-III	24		24
Elective Courses	4		4
TOTAL	139	39	178

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	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
1st WEEK (11 - 15 September 2017)		
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	
09:40-10:30	Heart and pericardium	Dr. Necmettin Ömer Özdoğmuş
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	Anatomy of the vessels (arterial and venous system)	Dr. Necmettin Ömer Özdoğmuş
14:40-15:30	Anatomy LAB: Heart and pericardium	Dr. Necmettin Ömer Özdoğmuş Dr. Berfu Çerçi Öngün
15:40-16:30	Anatomy LAB: Heart and pericardium	Dr. Necmettin Ömer Özdoğmuş Dr. Berfu Çerçi Öngün
16:40-17:30	Nosocomial fungal infections	Dr. Nilgün Çerikçioğlu
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

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11:40-12:30	Viscosity , laminar and turbulent flow	Dr. Pinar Mega Tiber
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 (18-22 September 2017)		
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	
15:40-16:30	PBL-1	
16:40-17:30	ICS-3: Introduction to ICS-3	Dr. Bülent Sezgin
Wednesday	12 September	
08:40-09:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	
09:40-10:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	
10:40-11:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	
11:40-12:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	

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13:40-14:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	
14:40-15:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	
15:40-16:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	
16:40-17:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	
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 (25-29 September 2017)		
Monday	17 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	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	
16:40-17:30	PBL-2	
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	Microbiological approach to cardiovascular infections	Dr. Güner Söyledir
16:40-17:30	Microbiological approach to cardiovascular infections	Dr. Güner Söyledir
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		
09:40-10:30		
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		
4th Week (2-6 October 2017)		

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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		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Tuesday	25 September	
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	Approach to thromboembolic disorders	Dr. Koray Ak
14:40-15:30	PBL Study Time	
15:40-16:30	PBL-3	
16:40-17:30	PBL-3	
Wednesday	26 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	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		
09:40-10:30		
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 hyperlipidemias	Dr. Atila Karaalp
16:40-17:30		
Friday	28 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	Dr. Figen Akalın

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	stenosis	
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	Radiology of the cardiovascular system	Dr. Derya Türeli
15:40-16:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Atila Karaalp
16:40-17:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Atila Karaalp
5th Week (09-13 October 2017)		
Monday	1 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	Elective Courses	
16:40-17:30	Elective Courses	
Tuesday	2 October	
08:40-09:30	Adult patient with chest pain. Primary care approach	Dr. Gülru Pemra Ünalın
09:40-10:30	Elderly patient with leg pain: Primary care approach	Dr. Gülru Pemra Ünalın
10:40-11:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel
11:40-12:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel
13:40-14:30	Vasculitis	Dr. Zeliha Leyla Cinel
14:40-15:30	PBL Study Time	
15:40-16:30	PBL-4	
16:40-17:30	PBL-4	
Wednesday	3 October	
08:40-09:30		
09:40-10:30	Clinical electrocardiography	Dr. Okan Erdoğan
10:40-11:30	Clinical electrocardiography	Dr. Okan Erdoğan
11:40-12:30	Cardiac dysrhythmias	Dr. Okan Erdoğan
13:40-14:30	Cardiac dysrhythmias	Dr. Okan Erdoğan
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. Mevhibe Hocaoğlu
16:40-17:30	ICS-3 Research: Student Research Activity	Dr. İlke Akçay, Dr. Mevhibe Hocaoğlu
Thursday	4 October	
08:40-09:30	Valvular heart disease	Dr. Bülent Mutlu

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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 İnan
14:40-15:30	Electrical fields, potential at a point	Dr. Günseli Ayşe Garip İnan
15:40-16:30	Cardiac action potentials	Dr. Günseli Ayşe Garip İnan
16:40-17:30	Principles of hemodynamics	Dr. Günseli Ayşe Garip İnan
Friday	5 October	
08:40-09:30	Principles of hemodynamics	Dr. Günseli Ayşe Garip İnan
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	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 (16-20 October, 2017)		
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	Elective Courses	
16:40-17:30	Elective Courses	
Tuesday	9 October	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30	PBL Study Time	

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15:40-16:30	PBL-5	
16:40-17:30	PBL-5	
Wednesday	10 October	
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	PATHOLOGY LAB: Heart and valvular diseases-Group A	Dr. İpek Erbarut Dr. Hasan Toper
11:40-12:30	PATHOLOGY LAB: Heart and valvular diseases-Group B	Dr. İpek Erbarut 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. İpek Erbarut
16:40-17:30	Ischaemic heart disease	Dr. İpek Erbarut
Thursday	11 October	
08:40-09:30		
09:40-10:30		
10:40-11:30	Pharmacotherapy in peripheral arterial occlusive diseases	Dr. Eren Sakallı
11:40-12:30	Pharmacotherapy in venous thromboembolic disease	Dr. 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	
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	
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 (23-27 October 2017)		
Monday	15 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		

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