



CARDIOVASCULAR SYSTEM AND RELATED DISORDERS
YEAR 3 COURSE 1
September 11th, 2017 – October 27th, 2017

Coordinator of the Course 3.1

Asist. Prof. Mevhibe B. Hocaoğlu

Coordinator of Multidisciplinary Students' LAB.

Asist. Prof., Mümtaz GÜRAN

Coordinator of Clinical Skill LAB.

Instructor. Berfu Çerçi ÖNGÜN

Coordinator of Assessment Unit

Asist. Prof., Mümtaz GÜRAN, Assist. Prof. Dr.
Mevhibe HOCAOĞLU, Asist. Prof., İlke Çetin,

Coordinator of ICS Res. LAB.

Assist. Prof. Dr. Mevhibe HOCAOĞLU

Year 3 Coordinators

Associate Prof. Arzu İlki & Assist. Prof. Pınar Mega Tiber

Module Coordinator

Assoc. Prof. Özlem SARIKAYA

Introduction to Clinician Skills (ICS) Coordinators

Prof. Sibel KALAÇA, Assoc. Prof. Pemra ÜNALAN

Coordinator of Multidisciplinary Students' LAB.

Assoc. Prof. Betül KARADEMİR

Coordinator of Assessment Unit

Asist. Prof. Cevdet NACAR

Vice-Chief Coordinators

Assessment

Asist. Prof., Cevdet NACAR

Students' Affairs

Asist. Prof., Can ERZİK

Chief Coordinator

Assoc. Prof. Hasan YANANLI

**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
- Biochemistry
- Biophysics
- Cardiology
- Cardiovascular Surgery
- Clinical Pharmacology
- Family Medicine
- Histology and Embryology

- Nuclear Medicine
- Microbiology
- Pathology
- Pediatric Cardiology
- Physiology
- Public Health
- Radiology

LECTURERS / TUTORS

Koray AK, Assoc. Professor of Cardiovascular Surgery
Figen AKALIN, Professor of Pediatric Cardiology
Ahmet AKICI, Professor of Clinical Pharmacology
İnci ALİCAN, Professor of Physiology
Feyyaz BALTACIOĞLU, Professor of Radiology
Yelda BAŞARAN, Professor of Cardiology
Saime BATIREL, Assist. Professor of Biochemistry
Kemal BERKMAN, Professor of Pharmacology
Leyla CİNEL, Professor of Pathology
Özgür Kasımay ÇAKIR, Assoc. Professor of Physiology
Şule ÇETİNEL, Professor of Histology and Embryology
Nilgün ÇERİKÇİOĞLU, Assoc. Professor of Microbiology
İpek ERBARUT Assist. Professor of Pathology Okan ERDOĞAN, Professor of Cardiology
Ayşe GARİP, Assoc. Professor of Biophysics
Zafer GÖREN, Professor of Pharmacology

Oya ORUN, Assoc. Professor of Biophysics
Ömer ÖZDOĞMUŞ, Assoc. Professor of Anatomy
Nesrin Kartal ÖZER, Professor of Biochemistry
Beste Özben SADIÇ, Assoc. Professor of Cardiology
Sibel SAKARYA, Professor of Public Health
İbrahim SARI Professor of Cardiology
Nurten SAYAR, Assoc. Professor of Cardiology
Güner SÖYLELİ, Professor of Microbiology
Mehmet Ali SÖYLEMEZ, Assist. Professor of Medical Genetics
Serap ŞİRVANCI, Professor of Histology and Embryology
M. Kürşat TİGEN, Assoc. Professor of Cardiology
Halil Turgut TUROĞLU, Professor of Nuclear Medicine
Kemal TÜRKÖZ, Assoc. Professor of Pathology
Alper YILDIRIM, Assist. Professor of Physiology
Arzu UZUNER, Assoc. Professor of Family Medicine

Atila KARAALP, Professor of Clinical Pharmacology Hızır
KURTEL, Professor of Physiology
Emel LÜLECİ, Assoc. Professor of Public Health
Bülent MUTLU, Professor of Cardiology
Filiz ONAT, Professor of Clinical Pharmacology

Pemra C.ÜNALAN, Assoc. Professor of Family Medicine
Süha YALÇIN, Professor of Biochemistry
Berrak YEĞEN, Professor of Physiology
Osman YEŞİLDAĞ, Professor of Cardiology

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.

SUMMARY OF THE COURSE 2.5			
Discipline	Lecture & Group Discussion	Multidisciplinary LAB. & Clinical Skills LAB. Practice	Total
Anatomy	4	1	5
Biochemistry	10		9
Biophysics	11		11
Cardiology	28		28
Cardiovascular Surgery	1		1
Clinical Pharmacology	13		13
Family Medicine	2		2
Histology and Embryology	5	2	7
Nuclear Medicine	1		1
Microbiology	3		3
Pathology	7	2	7
Pediatric Cardiology	5		5
Physiology	18	3	21
Public Health	2		2
Radiology	1		1
Genetics	1		1
Subtotal	112	8	120
PBL Module	10		10
ICS-3: Basic Medical Practices, Clinical Skills LAB., Student Research Activity	1	16	17
Communication in Turkish-III (Foreign Students)	6		6
Elective Course	10		10
TOTAL	139	24	163

THEORETICAL AND PRACTICAL SESSIONS		LECTURER/TUTOR
1st WEEK (11 - 15 September 2017)		
Monday	11 September	
08:40-09:30	Communication in Turkish III	TBA
09:40-10:30	Communication in Turkish III	TBA
10:40-11:30	Communication in Turkish III	TBA
11:40-12:30	Communication in Turkish III	TBA
13:40-14:30	Elective course	
14:40-15:30	Elective course	
15:40-16:30	Study time	
16:40-17:30	Study time	

Tuesday	12 September	
08:40-09:30	Introduction to the course and opening lecture	Dr. Mevhibe B. Hocaođlu
09:40-10:30	Heart and pericardium	Dr. Ömer Özdođmuş
10:40-11:30	Heart and pericardium	Dr. Ömer Özdođmuş
11:40-12:30	Heart and pericardium	Dr. Ömer Özdođmuş
13:40-14:30	Anatomy of the vessels (arterial and venous system)	Dr. Ömer Özdođmuş
14:40-15:30	ANATOMY LAB: Heart and pericardium-	Dr. Ömer Özdođmuş, Dr. Berfu Çerçi Öngün
15:40-16:30	ANATOMY LAB: Heart and pericardium-	Dr. Ömer Özdođmuş, Dr. Berfu Çerçi Öngün
16:40-17:30	Study time	
Wednesday	13 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	Lipoprotein metabolism	Dr. Saime Batirel
13:40-14:30	Lipoprotein metabolism	Dr. Saime Batirel
14:40-15:30	Lipoprotein metabolism	Dr. Saime Batirel
15:40-16:30	Vascular events	Dr. Saime Batirel
16:40-17:30	Study time	
Thursday	14 September	
08:40-09:30	Principal of hemodynamics	Dr. Hızır Kurtel
09:40-10:30	Principal 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	
Friday	15 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 and Masoud Afshani
15:40-16:30	HISTOLOGY LAB: Histology of heart, blood vessels	Dr. Özlem Tuğçe Kaya and Masoud Afshani
16:40-17:30	Study time	
2nd Week (18-22 September 2017)		
Monday	18 September	
08:40-09:30	Communication in Turkish III	TBA
09:40-10:30	Communication in Turkish III	TBA
10:40-11:30	Communication in Turkish III	TBA
11:40-12:30	Communication in Turkish III	TBA
13:40-14:30	Elective course	
14:40-15:30	Elective course	
15:40-16:30	Study time	
16:40-17:30	Study time	
Tuesday	19 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	Study time	
14:40-15:30	Introduction to ICS-3	Dr. Bülent Sezgin
		Dr. Berfu Çerçi Öngün, Dr. Bülent Sezgin, Dr. Mümtaz Güran, Dr. Mevhibe B. Hocaoğlu
15:40-16:30	PBL-1	Dr. Berfu Çerçi Öngün, Dr. Bülent Sezgin, Dr. Mümtaz Güran, Dr. Mevhibe B. Hocaoğlu
16:40-17:30	PBL-1	Dr. Berfu Çerçi Öngün, Dr. Bülent Sezgin, Dr. Mümtaz Güran, Dr. Mevhibe B. Hocaoğlu
Wednesday	20 September	
08:40-09:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin
09:40-10:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin
10:40-11:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin
11:40-12:30	ICS-3: Basic Clinical Skills LAB: Respiratory System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin

13:40-14:30	ICS-3:Basic Clinical Skills LAB: Respiratory System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin
14:40-15:30	ICS-3:Basic Clinical Skills LAB: Respiratory System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin
15:40-16-30	ICS-3:Basic Clinical Skills LAB: Respiratory System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin
16:40-17:30	ICS-3:Basic Clinical Skills LAB: Respiratory System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin
Thursday	21 September	
08:40-09:30	Study time	
09:40-10:30	Study time	
10:40-11:30	Electrical fields, potential at a point	Dr. Günseli Ayşe Garip İnan
11:40-12:30	Electrical fields, potential at a point	Dr. Günseli Ayşe Garip İnan
13:40-14:30	Cardiac injury and markers	Dr. Betül Karademir
14:40-15:30	Cardiac injury and markers	Dr. Betül Karademir
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	22 September	
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	Biochemical aspects of the metabolic syndrome	Dr. Betül Karademir
14:40-15:30	Biochemical aspects of the metabolic syndrome	Dr. Betül Karademir
15:40-16-30	Hyperlipidemias and atherosclerosis	Dr. Betül Karademir
16:40-17:30	Hyperlipidemias and atherosclerosis	Dr. Betül Karademir
3rd Week (25-29 September 2017)		
Monday	25 September	
08:40-09:30	Communication in Turkish III	TBA
09:40-10:30	Communication in Turkish III	TBA
10:40-11:30	Communication in Turkish III	TBA
11:40-12:30	Communication in Turkish III	TBA

13:40-14:30	Cardiac cycle	Dr. Berrak Yeğen
14:40-15:30	Cardiac cycle	Dr. Berrak Yeğen
15:40-16:30	Principles of ECG	Dr. Berrak Yeğen
16:40-17:30	Principles of ECG	Dr. Berrak Yeğen
Tuesday	26 September	
08:40-09:30	Study time	
09:40-10:30	Study time	
10:40-11:30	Study time	
11:40-12:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel
13:40-14:30	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel
14:40-15:30	Vasculitis	Dr. Zeliha Leyla Cinel
15:40-16:30	PBL-2	Dr. Berfu Çerçi Öngün, Dr. Bülent Sezgin, Dr. Mümtaz Güran, Dr. Mevhibe B. Hocaoğlu
16:40-17:30	PBL-2	Dr. Berfu Çerçi Öngün, Dr. Bülent Sezgin, Dr. Mümtaz Güran, Dr. Mevhibe B. Hocaoğlu
Wednesday	27 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	Cardiac output	Dr. Alper Yıldırım
14:40-15:30	Coronary circulation	Dr. Alper Yıldırım
15:40-16:30	Epidemiology of hypertension and rheumatic fever	Dr. Nimet Emel Lülecı
16:40-17:30	Study time	
Thursday	28 September	
08:40-09:30	PHYSIOLOGY LAB: ECG-1	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
09:40-10:30	PHYSIOLOGY LAB: ECG-2	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
10:40-11:30	PHYSIOLOGY LAB: ECG-3	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
11:40-12:30	PHYSIOLOGY LAB: ECG-4	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
13:40-14:30	PHYSIOLOGY LAB: Blood pressure, heart sounds, pulse	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım

14:40-15:30	PHYSIOLOGY LAB: Blood pressure, heart sounds, pulse	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
15:40-16:30	Study time	
16:40-17:30	Study time	
Friday	29 September	
08:40-09:30	PHYSIOLOGY LAB: ECG-2	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
09:40-10:30	PHYSIOLOGY LAB: ECG-3	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
10:40-11:30	PHYSIOLOGY LAB: ECG-4	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
11:40-12:30	PHYSIOLOGY LAB: ECG-5	Dr. Özgür Kasımay Çakır, Dr. Alper Yıldırım
13:40-14:30	Study time	
14:40-15:30	Study time	
15:40-16:30	Study time	
16:40-17:30	Study time	
4th Week (2-6 October 2017)		
Monday	2 October	
08:40-09:30	Study time	
09:40-10:30	Approach to the patient with cardiovascular system disease	Dr. Beste Özben Sadiç
10:40-11:30	Principal symptom and general signs in cardiovascular disease	Dr. Beste Özben Sadiç
11:40-12:30	Principal symptom and general signs in cardiovascular disease	Dr. Beste Özben Sadiç
13:40-14:30	Diagnostic methods in cardiology	Dr. Beste Özben Sadiç
14:40-15:30	Diagnostic methods in cardiology	Dr. Beste Özben Sadiç
15:40-16:30	PBL-3	Dr. Berfu Ç Öngün, Dr. Bülent Sezgin, Dr. Mevhibe B. Hocaođlu, Dr. Mümtaz Güran
16:40-17:30	PBL-3	Dr. Berfu Ç Öngün, Dr. Bülent Sezgin, Dr. Mevhibe B. Hocaođlu, Dr. Mümtaz Güran
Tuesday	3 October	
08:40-09:30	Study time	
09:40-10:30	Examination of the heart and vessels	Dr. Osman Yeşildađ
10:40-11:30	Examination of the heart and vessels	Dr. Osman Yeşildađ
11:40-12:30	Systemic hypertension and hypertensive heart disease	Dr. Osman Yeşildađ

13:40-14:30	Systemic hypertension and hypertensive heart disease	Dr. Osman Yeşildağ
14:40-15:30	Diseases of the aorta and the peripheral blood vessels	Dr. Osman Yeşildağ
15:40-16:30	Adult patient with chest pain. Primary care approach	Dr. Gülru Pemra Ünal
16:40-17:30	Elderly patient with leg pain: Primary care approach	Dr. Gülru Pemra Ünal
Wednesday	4 October	
08:40-09:30	Valvular heart disease	Dr. Osman Yeşildağ
09:40-10:30	Valvular heart disease	Dr. Osman Yeşildağ
10:40-11:30	Pulmonary hypertension in cardiology	Dr. Osman Yeşildağ
11:40-12:30	Infective endocarditis	Dr. Osman Yeşildağ
13:40-14:30	Pericarditis	Dr. Osman Yeşildağ
14:40-15:30	Introduction to cardiovascular pharmacology	Dr. Zafer Gören
15:40-16:30	Approach to thromboembolic disorders	Dr. Koray Ak
16:40-17:30	Study time	
Thursday	5 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	Bernoulli's equation, the role of gravity in the circulation	Dr. Pınar Mega Tiber
14:40-15:30	Viscosity, laminar and turbulent flow	Dr. Pınar Mega Tiber
15:40-16:30	Viscosity, laminar and turbulent flow	Dr. Pınar Mega Tiber
16:40-17:30	Study time	
Friday	6 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	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	Study time	
16:40-17:30	Study time	
5th Week (09-13 October 2017)		
Monday	09 October	

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	Syncope and sudden cardiac death	Dr. Okan Erdoğan
14:40-15:30	Cardiomyopathies and myocarditis	Dr. Okan Erdoğan
15:40-16:30	Elective course	
16:40-17:30	Elective course	
Tuesday	10 October	
08:40-09:30	Study time	
09:40-10:30	Study time	
10:40-11:30	Acute coronary syndrome	Dr. Mustafa Kürşat Tigen
11:40-12:30	Acute coronary syndrome	Dr. Mustafa Kürşat Tigen
13:40-14:30	Heart failure and cardiogenic shock	Dr. Mustafa Kürşat Tigen
14:40-15:30	Heart failure and cardiogenic shock	Dr. Mustafa Kürşat Tigen
15:40-16:30	PBL-4	Dr. Berfu Çerçi Öngün, Dr. Bülent Sezgin, Dr. Mümtaz Güran, Dr. Mevhibe B. Hocaoğlu
16:40-17:30	PBL-4	Dr. Berfu Çerçi Öngün, Dr. Bülent Sezgin, Dr. Mümtaz Güran, Dr. Mevhibe B. Hocaoğlu
Wednesday	11 October	
08:40-09:30	Study time	
09:40-10:30	Coronary artery disease	Dr. Mustafa Kürşat Tigen
10:40-11:30	Coronary artery disease	Dr. Mustafa Kürşat Tigen
11:40-12:30	Cardiovascular diseases in special population	Dr. Mustafa Kürşat Tigen
13:40-14:30	ICS-3 Research	Dr. İlke Çetin Akçay and Dr. Mevhibe B. Hocaoğlu
14:40-15:30	ICS-3 Research	Dr. İlke Çetin Akçay and Dr. Mevhibe B. Hocaoğlu
15:40-16:30	Study time	
16:40-17:30	Study time	
Thursday	12 October	
08:40-09:30	Study time	
09:40-10:30	Myocardial scintigraphy and radionuclide ventriculography	Dr. Nahide Gökçora
10:40-11:30	Pharmacotherapy of heart failure	Dr. Atila Karaalp

11:40-12:30	Pharmacotherapy of heart failure	Dr. Atila Karaalp
13:40-14:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Atila Karaalp
14:40-15:30	Pharmacotherapy of cardiac dysrhythmias	Dr. Atila Karaalp
15:40-16:30	Pharmacotherapy of hyperlipidemias	Dr. Atila Karaalp
16:40-17:30	Study time	
Friday	13 October	
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
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	PBL-5	Dr. Berfu Çerçi Öngün, Dr. Bülent Sezgin, Dr. Mümtaz Güran, Dr. Mevhibe B. Hocaoglu
15:40-16:30	PBL-5	Dr. Berfu Çerçi Öngün, Dr. Bülent Sezgin, Dr. Mümtaz Güran, Dr. Mevhibe B. Hocaoglu
16:40-17:30	Study time	
6th Week (16-20 October, 2017)		
Monday	16 October	
08:40-09:30	Communication in Turkish III	TBA
09:40-10:30	Communication in Turkish III	TBA
10:40-11:30	Communication in Turkish III	TBA
11:40-12:30	Communication in Turkish III	TBA
13:40-14:30	Elective course	
14:40-15:30	Elective course	
15:40-16:30	Study time	
16:40-17:30	Study time	
Tuesday	17 October	
08:40-09:30	Valvular diseases of the heart	Dr. Hüseyin Kemal Türköz
09:40-10:30	Neoplastic diseases of the heart & blood vessels	Dr. Hüseyin Kemal Türköz
10:40-11:30	PATHOLOGY LAB: Heart and valvular diseases-Group A	Dr. Hüseyin Kemal Türköz
11:40-12:30	PATHOLOGY LAB: Heart and valvular diseases-Group B	Dr. Hüseyin Kemal Türköz
13:40-14:30	Ischaemic heart disease	Dr. İpek Erbarut
14:40-15:30	Ischaemic heart disease	Dr. İpek Erbarut

15:40-16:30	Study time	
16:40-17:30	Study time	
Wednesday	18 October	
08:40-09:30	Nosocomial fungal infections	Dr. Nilgün Çerikçioğlu
09:40-10:30	Microbiological approach to cardiovascular infections	Dr. Güner Söyledir
10:40-11:30	Microbiological approach to cardiovascular infections	Dr. Güner Söyledir
11:40-12:30	Genetic basis of the cardiovascular diseases	Dr. Mehmet Ali Söylemez
13:40-14:30	Radiology of the cardiovascular system	Dr Onur Buğdaycı
14:40-15:30	Study time	
15:40-16:30	Study time	
16:40-17:30	Study time	
Thursday	19 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	Pharmacotherapy in peripheral arterial occlusive diseases	Dr. Halil Eren Sakallı
14:40-15:30	Pharmacotherapy in venous thromboembolic disease	Dr. Halil Eren Sakallı
15:40-16:30	Study time	
16:40-17:30	Study time	
Friday	20 October	
		Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
08:40-09:30	ICS-3:Basic Clinical Skills LAB: Cardiovascular System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
09:40-10:30	ICS-3:Basic Clinical Skills LAB: Cardiovascular System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
10:40-11:30	ICS-3:Basic Clinical Skills LAB: Cardiovascular System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
11:40-12:30	ICS-3:Basic Clinical Skills LAB: Cardiovascular System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
13:40-14:30	ICS-3:Basic Clinical Skills LAB: Cardiovascular System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
14:40-15:30	ICS-3:Basic Clinical Skills LAB: Cardiovascular System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün

15:40-16:30	ICS-3:Basic Clinical Skills LAB: Cardiovascular System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
16:40-17:30	ICS-3:Basic Clinical Skills LAB: Cardiovascular System	Prof. Dr. Aydın Karakuzu, Dr. Bülent Sezgin, Dr. Berfu Çerçi Öngün
7th Week (23-27 October 2017)		
Monday	23 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	24 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	25 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	26 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	27 October	
08:40-09:30	Y3C1 THEORETICAL 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		