



**CARDIOVASCULAR SYSTEM AND RELATED DISORDERS**  
**YEAR 3 COURSE 1**  
**September 7<sup>th</sup>, 2020 – October 16<sup>th</sup>, 2020**

**Year 3 Coordinators**

Prof., Arzu Akşit İLKİ & Assoc. Prof., Pınar Mega TİBER & Assoc. Prof., Amber EKER

**PBL Module Coordinator**

Prof., Özlem SARIKAYA  
Assist. Prof., Bülent SEZGİN

**Coordinator of Multidisciplinary Students' Lab.**

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

**Coordinator of Clinical Skill Lab.**

Prof., Pemra ÜNALAN  
Assoc. Prof., Nilüfer GÜZOĞLU

**Coordinator of ICS Res. Lab.**

Prof., Pemra ÜNALAN  
Assist. Prof., İlke AKÇAY

**Vice-Chief Coordinators**

**Assessment**

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

**Student Affairs**

Asist. Prof., Can ERZİK  
Inst. Yöner MERAY

**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**

Prof., Mehmet Ali GÜLPINAR

**Acting 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

- |                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>● Anatomy</li> <li>● Biophysics</li> <li>● Cardiology</li> <li>● Cardiovascular Surgery</li> <li>● Child Health and Diseases</li> <li>● Family Medicine</li> <li>● Histology and Embryology</li> <li>● Medical Biochemistry</li> </ul> | <ul style="list-style-type: none"> <li>● Medical Genetics</li> <li>● Medical Microbiology</li> <li>● Nuclear Medicine</li> <li>● Pathology</li> <li>● Pharmacology</li> <li>● Physiology</li> <li>● Public Health</li> <li>● Radiology</li> </ul> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### LECTURERS / TUTORS

Ahmet AKICI, Prof., Pharmacology Ahmet Altuğ ÇİNÇİN, Assoc. Prof., Cardiology Alper KEPEZ, Assoc. Prof., Cardiology Alper YILDIRIM, Assoc. Prof., Physiology Amber EKER, Assoc. Prof., Neurology Atila KARAALP, Prof., Pharmacology Arzu UZUNER, Assoc. Prof., Family Medicine Berrak YEĞEN, Prof., Physiology Beste ÖZBEN SADIÇ, Prof., Cardiology Betül KARADEMİR, Prof., Medical Biochemistry Bülent MUTLU, Prof., Cardiology Bülent SEZGİN, Assist. Prof., Internal Medicine Çiğdem Apaydın KAYA, Assoc. Prof., Family Medicine Emine Özerinç, Inst. Turkish Language Figen AKALIN, Prof., Child Health and Diseases Gülru Pemra ÜNALAN, Prof., Family Medicine Günseli Ayşe GARİP İNHAN, Assoc. Prof., Biophysics	Koray AK, Prof., Cardiovascular Surgery Mehmet Ali SÖYLEMEZ, Instructor Dr., Medical Genetics Murat SÜNBÜL, Assoc. Prof., Cardiology Nahide GÖKÇORA, Prof., Nuclear Medicine Necmettin Ömer ÖZDOĞMUŞ, Assoc. Prof., Anatomy Nevin YILMAZ, Prof., Gastroenterology Nilgün ÇERİKÇİOĞLU, Prof., Medical Microbiology Nilüfer GÜZOĞLU, Assoc. Prof., Neonatology Nimet Emel LÜLECİ, Prof., Public Health Nurten SAYAR, Prof., Cardiology Nurver ÜLGER, Prof., Medical Microbiology Onur BUĞDAYCI, Assist. Prof., Radiology Osman YEŞİLDAĞ, Prof., Cardiology Özgür KASIMAY ÇAKIR, Assoc. Prof., Physiology Özlem Tuğçe KAYA, Assist. Prof., Histology and Embryology Pınar MEGA TİBER, Assoc. Prof., Biophysics Saime BATIREL, Assoc. Prof., Medical Biochemistry
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Halil ATAŞ, Inst., Cardiology  
Halil Eren SAKALLI, Assist. Prof., Pharmacology  
Hızır KURTEL, Prof., Physiology  
Hüseyin Kemal TÜRKÖZ, Assoc. Prof., Medical Pathology  
İlke AKÇAY, Assist. Prof., Biostatistics  
İpek ERBARUT, Assist. Prof., Pathology

Şule ÇETİNEL, Prof., Histology and Embryology  
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.

Last updated on January 25, 2021

<b>SUMMARY OF THE COURSE 3.1</b>			
<b>Discipline</b>	<b>Lecture &amp; Group Discussion</b>	<b>Multidisciplinary Lab. &amp; Clinical Skills Lab Practice</b>	<b>Total</b>
Anatomy	4	1	5
Biophysics	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
<b>Subtotal</b>	<b>112</b>	<b>6</b>	<b>118</b>
PBL Module	<b>10</b>		10
<b>ICS-3 Introduction</b>	1		1
<b>ICS-3 Clinical:</b> Basic Medical Practices, Clinical Skills LAB	4	7	11
<b>ICS-3 Research:</b> Student Research Activity	3	3	6
TFMS301 – Turkish for Medical Students IV	14		14
<b>TOTAL</b>	<b>144</b>	<b>16</b>	<b>160</b>

\* online lecture given through **MS Teams Application**

Last updated on January 25, 2021

	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
<b>1<sup>st</sup> Week (07 - 11 September 2020)</b>		
<b>Monday</b>	<b>07 September</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	Introduction to the course and opening lecture	Dr. İlke Akçay*
11:00-11:50	Heart and pericardium	Dr. Necmettin Ömer Özdoğmuş
13:00-13:50	Heart and pericardium	Dr. Necmettin Ömer Özdoğmuş
14:00-14:50	Heart and pericardium	Dr. Necmettin Ömer Özdoğmuş
15:00-15:50	STUDY TIME	
<b>Tuesday</b>	<b>08 September</b>	
09:00-09:50	Histology of the heart	Dr. Özlem Tuğçe Kaya
10:00-10:50	Histology of blood vessels	Dr. Özlem Tuğçe Kaya
11:00-11:50	Histology of blood vessels	Dr. Özlem Tuğçe Kaya
13:00-13:50	Physiological properties of the cardiac muscle	Dr. Yaşar İnci Alican
14:00-14:50	Regulation of cardiac functions	Dr. Yaşar İnci Alican
15:00-15:50	STUDY TIME	
<b>Wednesday</b>	<b>09 September</b>	
09:00-09:50	Cardiac cycle	Dr. Berrak Yegen
10:00-10:50	Cardiac cycle	Dr. Berrak Yegen
11:00-11:50	STUDY TIME	
13:00-13:50	Electrical fields, potential at a point	Dr. Günseli Ayşe Garip İnhan
14:00-14:50	Electrical fields, potential at a point	Dr. Günseli Ayşe Garip İnhan
15:00-15:50	STUDY TIME	
<b>Thursday</b>	<b>10 September</b>	
09:00-09:50	Heart sounds	Dr. Yaşar İnci Alican
10:00-10:50	Principles of ECG	Dr. Berrak Yegen
11:00-11:50	Principles of ECG	Dr. Berrak Yegen
13:00-13:50	Vascular events	Dr. Saime Batirel*
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
<b>Friday</b>	<b>11 September</b>	
09:00-09:50	Cardiac action potentials	Dr. Günseli Ayşe Garip İnhan
10:00-10:50	Principles of hemodynamics	Dr. Hızır Kurtel
11:00-11:50	Principles of hemodynamics	Dr. Hızır Kurtel
13:00-13:50	Approach to the patient with cardiovascular system disease	Dr. Beste Özben Sadıç
14:00-14:50	Cardiac injury and markers	Dr. Saime Batirel*
15:00-15:50	Cardiac injury and markers	Dr. Saime Batirel*

Last updated on January 25, 2021

2 <sup>nd</sup> Week (14 - 18 September 2020)		
<b>Monday</b>	<b>14 September</b>	
09:00-09:50	Anatomy of the vessels (arterial and venous system)	Dr. Necmettin Ömer Özdoğmuş
10:00-10:50	Principal symptom and general signs in cardiovascular disease	Dr. Beste Özben Sadıç
11:00-11:50	Principal symptom and general signs in cardiovascular disease	Dr. Beste Özben Sadıç
13:00-13:50	Regulation of blood pressure	Dr. Hızır Kurtel
14:00-14:50	Regulation of blood pressure	Dr. Hızır Kurtel
15:00-15:50	Regulation of blood pressure	Dr. Hızır Kurtel
<b>Tuesday</b>	<b>15 September</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	Principles of electrocardiography	Dr. Günseli Ayşe Garip İnhan
11:00-11:50	Principles of electrocardiography	Dr. Günseli Ayşe Garip İnhan
13:00-13:50	Examination of the heart and vessels	Dr. Osman Yeşildağ
14:00-14:50	Examination of the heart and vessels	Dr. Osman Yeşildağ
15:00-15:50	STUDY TIME	
<b>Wednesday</b>	<b>16 September</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	Development of the cardiovascular system	Dr. Şule Çetinel
11:00-11:50	Development of the cardiovascular system	Dr. Şule Çetinel
13:00-13:50	<b>PBL Module-1</b>	Dr. Bülent Sezgin* Dr. Amber Eker*
14:00-14:50	<b>PBL Module-1</b>	Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
15:00-15:50	Turkish for Medical Students-IV	Inst. Emine Özerinç*
16:00-16:50	Turkish for Medical Students-IV	Inst. Emine Özerinç*
<b>Thursday</b>	<b>17 September</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	Clinical electrocardiography	Dr. Alper Kepez
11:00-11:50	Clinical electrocardiography	Dr. Alper Kepez
13:00-13:50	Diagnostic methods in cardiology	Dr. Murat Sünbül
14:00-14:50	Diagnostic methods in cardiology	Dr. Murat Sünbül
15:00-15:50	<b>Histology LAB:</b> Histology of heart, blood vessels	Dr. Özlem Tuğçe Kaya
<b>Friday</b>	<b>18 September</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	Arterial pulse	Dr. Özgür Kasımay Çakır

Last updated on January 25, 2021

11:00-11:50	Regulation of blood flow	Dr. Özgür Kasımay Çakır
13:00-13:50	Principles of hemodynamics	Dr. Günseli Ayşe Garip İnhan
14:00-14:50	Principles of hemodynamics	Dr. Günseli Ayşe Garip İnhan
15:00-15:50	<b>Anatomy LAB:</b> Heart and pericardium	Dr. Necmettin Ömer Özdoğmuş
<b>3<sup>rd</sup> Week (21 - 25 September 2020)</b>		
<b>Monday</b>	<b>21 September</b>	
09:00-09:50	Valvular heart disease	Dr. Bülent Mutlu
10:00-10:50	Valvular heart disease	Dr. Bülent Mutlu
11:00-11:50	STUDY TIME	
13:00-13:50	Coronary circulation	Dr. Alper Yıldırım
14:00-14:50	<b>PBL Module-2</b>	Dr. Bülent Sezgin* Dr. Amber Eker*
15:00-15:50	<b>PBL Module-2</b>	Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
<b>Tuesday</b>	<b>22 September</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel
11:00-11:50	Atherosclerosis & hypertensive cardiovascular events	Dr. Zeliha Leyla Cinel
13:00-13:50	Cardiac dysrhythmias	Dr. Alper Kepez
14:00-14:50	Cardiac dysrhythmias	Dr. Alper Kepez
15:00-15:50	Syncope and sudden cardiac death	Dr. Halil Ataş
<b>Wednesday</b>	<b>23 September</b>	
09:00-09:50	Viscosity, laminar and turbulent flow	Dr. Pinar Mega Tiber
10:00-10:50	Viscosity, laminar and turbulent flow	Dr. Pinar Mega Tiber
11:00-11:50	Vasculitis	Dr. Zeliha Leyla Cinel
13:00-13:50	Cardiac output	Dr. Alper Yıldırım
14:00-14:50	<b>PBL Module-3</b>	Dr. Bülent Sezgin* Dr. Amber Eker*
15:00-15:50	<b>PBL Module-3</b>	Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
<b>Thursday</b>	<b>24 September</b>	
09:00-09:50	Approach to thromboembolic disorders	Dr. Koray Ak
10:00-10:50	Coronary artery disease	Dr. Nurten Sayar
11:00-11:50	Coronary artery disease	Dr. Nurten Sayar
13:00-13:50	Acute coronary syndrome	Dr. Ahmet Altuğ Çinçin
14:00-14:50	Acute coronary syndrome	Dr. Ahmet Altuğ Çinçin
15:00-15:50	STUDY TIME	



Last updated on January 25, 2021

<b>Friday</b>	<b>25 September</b>	
<b>09:00-09:50</b>	Circulation through specific organs	Dr. Özgür Kasımay Çakır
<b>10:00-10:50</b>	ECG and its interpretation	Dr. Özgür Kasımay Çakır
<b>11:00-11:50</b>	Diseases of the aorta and the peripheral blood vessels	Dr. Ahmet Altuğ Çınçın
<b>13:00-13:50</b>	Biochemical aspects of the metabolic syndrome	Dr. Saime Batirel*
<b>14:00-14:50</b>	Biochemical aspects of the metabolic syndrome	Dr. Saime Batirel*
<b>15:00-15:50</b>	Bernouilli's equation, the role of gravity in the circulation	Dr. Pınar Mega Tiber
<b>Saturday</b>	<b>26 September</b>	
<b>11:00-11:50</b>	Turkish for Medical Students-IV	Inst. Emine Özerinç*
<b>13:00-13:50</b>	Turkish for Medical Students-IV	Inst. Emine Özerinç*
<b>14:00-14:50</b>	Turkish for Medical Students-IV	Inst. Emine Özerinç*
<b>4<sup>th</sup> Week (28 September -02 October 2020)</b>		
<b>Monday</b>	<b>28 September</b>	
<b>09:00-09:50</b>	Ischaemic heart disease	Dr. İpek Erbarut
<b>10:00-10:50</b>	Ischaemic heart disease	Dr. İpek Erbarut
<b>11:00-11:50</b>	STUDY TIME	
<b>13:00-13:50</b>	Microbiological approach to cardiovascular infections	Dr. Nurver Ülger
<b>14:00-14:50</b>	<b>PBL Module-4</b>	Dr. Bülent Sezgin* Dr. Amber Eker*
<b>15:00-15:50</b>	<b>PBL Module-4</b>	Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
<b>Tuesday</b>	<b>29 September</b>	
<b>09:00-09:50</b>	Lipoprotein metabolism	Dr. Saime Batirel
<b>10:00-10:50</b>	Lipoprotein metabolism	Dr. Saime Batirel
<b>11:00-11:50</b>	Lipoprotein metabolism	Dr. Saime Batirel
<b>13:00-13:50</b>	Heart failure and cardiogenic shock	Dr. Nurten Sayar
<b>14:00-14:50</b>	Heart failure and cardiogenic shock	Dr. Nurten Sayar
<b>15:00-15:50</b>	STUDY TIME	
<b>Wednesday</b>	<b>30 September</b>	
<b>09:00-09:50</b>	STUDY TIME	
<b>10:00-10:50</b>	Hyperlipidemias and atherosclerosis	Dr. Betül Karademir*
<b>11:00-11:50</b>	Hyperlipidemias and atherosclerosis	Dr. Betül Karademir*
<b>13:00-13:50</b>	Epidemiology of coronary heart disease	Dr. Nimet Emel Lüleci
<b>14:00-14:50</b>	<b>PBL Module-5</b>	Dr. Bülent Sezgin* Dr. Amber Eker*
<b>15:00-15:50</b>	<b>PBL Module-5</b>	Dr. Nevin Yılmaz* Dr. Nilüfer Güzoğlu*
<b>Thursday</b>	<b>01 October</b>	

Last updated on January 25, 2021

<b>09:00-09:50</b>	Systemic hypertension and hypertensive heart disease	Dr. Osman Yeşildağ
<b>10:00-10:50</b>	Systemic hypertension and hypertensive heart disease	Dr. Osman Yeşildağ
<b>11:00-11:50</b>	Pericarditis	Dr. Murat Sünbül
<b>13:00-13:50</b>	Cardiomyopathies and myocarditis	Dr. Halil Ataş
<b>14:00-14:50</b>	Principles of echocardiography	Dr. Günseli Ayşe Garip İnhan
<b>15:00-15:50</b>	Microbiological approach to cardiovascular infections	Dr. Nurver Ülger
<b>Friday</b>	<b>02 October</b>	
<b>09:00-09:50</b>	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı
<b>10:00-10:50</b>	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı
<b>11:00-11:50</b>	Pharmacotherapy of hypertension	Dr. Ahmet Akıcı
<b>13:00-13:50</b>	STUDY TIME	
<b>14:00-14:50</b>	Valvular diseases of the heart	Dr. Hüseyin Kemal Türköz
<b>15:00-15:50</b>	Neoplastic diseases of the heart & blood vessels	Dr. Hüseyin Kemal Türköz
<b>Sunday</b>	<b>4 October</b>	
<b>11:00-11:50</b>	Turkish for Medical Students-IV	Inst. Emine Özerinç*
<b>13:00-13:50</b>	Turkish for Medical Students-IV	Inst. Emine Özerinç*
<b>14:00-14:50</b>	Turkish for Medical Students-IV	Inst. Emine Özerinç*
<b>5<sup>th</sup> Week (05- 09 October 2020)</b>		
<b>Monday</b>	<b>05 October</b>	
<b>09:00-09:50</b>	<b>ICS-3: Introduction to ICP/ICS-3</b> (tutor presentation)	Dr. Çiğdem Apaydın Kaya Dr. Pemra C. Ünalın
<b>10:00-10:50</b>	<b>ICS-3 BMP: History taking focused on Respiratory System</b> (tutor presentation and Bates Videos)	Dr. Çiğdem Apaydın Kaya
<b>11:00-11:50</b>	<b>ICS-3 BMP: History taking</b> Online practice with each other and feedback (case study-3 students study)	Dr. Pemra C. Ünalın
<b>13:00-13:50</b>	<b>ICS-3: Student Reserch Activity (SRA)</b> Introduction and Orientation to ICS-3 SRA. Informing about the aims and objectives of the ICS-3 SRA through 2020-21	Dr. İlke Akçay*
<b>14:00-14:50</b>	<b>ICS-3 SRA: Feedback from last year</b>	Dr. İlke Akçay*
<b>15:00-15:50</b>	<b>ICS-3 SRA: Theme, Assessment, Timeline and Schedule of the Year</b>	Dr. İlke Akçay*
<b>Tuesday</b>	<b>06 October</b>	
<b>09:00-09:50</b>	<b>ICS-3 CSL: Respiratory System Examination (adult)</b>	Dr. Bülent Sezgin*
<b>10:00-10:50</b>	<b>ICS-3 CSL: Respiratory System Examination (pediatric)</b>	Dr. Nilüfer Güzoğlu*
<b>11:00-11:50</b>	<b>ICS-3 CSL: Respiratory System Examination</b> (video and practice)	Dr. Nilüfer Güzoğlu*
<b>13:00-13:50</b>	Free Study time for SRA	
<b>14:00-14:50</b>	Free Study time for SRA	

Last updated on January 25, 2021

15:00-15:50	Free Study time for SRA	
<b>Wednesday</b>	<b>07 October</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	Turkish for Medical Students-IV	Inst. Emine Özerinç*
13:00-13:50	Turkish for Medical Students-IV	Inst. Emine Özerinç*
14:00-14:50	Turkish for Medical Students-IV	Inst. Emine Özerinç*
15:00-15:50	STUDY TIME	
<b>Thursday</b>	<b>08 October</b>	
09:00-09:50	ICS-3 BMP: Cardiovascular System History taking (adult) (tutor presentation)	Dr. Bülent Sezgin*
10:00-10:50	ICS-3 BMP: Cardiovascular System History taking (pediatrics)	Dr. Nilüfer Güzoğlu*
11:00-11:50	ICS-3 CSL: Cardiovascular System Examination (video and practice)	Dr. Bülent Sezgin*
13:00-13:50	ICS-3 SRA: Formation of student groups for the Research Activity	Dr. İlke Akçay*
14:00-14:50	ICS-3 SRA: Informing about Ethical Approval Process	Dr. İlke Akçay*
15:00-15:50	STUDY TIME	
<b>Friday</b>	<b>09 October</b>	
09:00-09:50	ICS-3 CSL: Cardiovascular System Examination with video (adult)	Dr. Bülent Sezgin*
10:00-10:50	STUDY TIME	
11:00-11:50	ICS-3 CSL: Cardiovascular System Examination with video (pediatrics)	Dr. Nilüfer Güzoğlu*
13:00-13:50	ICS-3 SRA: Assigning mentors to the student research groups	Dr. İlke Akçay*
14:00-14:50	ICS-3 CSL: Measuring, Pulse, Measuring Blood pressure and Heart Sounds	Dr. Nilüfer Güzoğlu*
15:00-15:50	STUDY TIME	
<b>Saturday</b>	<b>10 October</b>	
11:00-11:50	Turkish for Medical Students-IV	Inst. Emine Özerinç*
13:00-13:50	Turkish for Medical Students-IV	Inst. Emine Özerinç*
14:00-14:50	Turkish for Medical Students-IV	Inst. Emine Özerinç*
<b>6<sup>th</sup> Week (12 - 16 October 2020)</b>		
<b>Monday</b>	<b>12 October</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	STUDY TIME	
13:00-13:50	STUDY TIME	

Last updated on January 25, 2021

<b>14:00-14:50</b>	STUDY TIME	
<b>15:00-15:50</b>	<b>PATHOLOGY LAB:</b> Heart and valvular diseases	Dr. İpek Erbarut
<b>16:00-16:50</b>	Adult patient with chest pain. Primary care approach	Dr. Arzu Uzuner
<b>Tuesday</b>	<b>13 October</b>	
<b>09:00-09:50</b>	Elderly patient with leg pain: Primary care approach	Dr. Gülru Pemra Ünalın
<b>10:00-10:50</b>	Congenital acyanotic heart disease with left to right shunt	Dr. Figen Akalın
<b>11:00-11:50</b>	Congenital heart disease with valvular obstruction or stenosis	Dr. Figen Akalın
<b>13:00-13:50</b>	Nosocomial fungal infections	Dr. Nilgün Çerikçioğlu
<b>14:00-14:50</b>	Genetic basis of the cardiovascular diseases	Dr. Mehmet Ali Söylemez
<b>15:00-15:50</b>	<b>Physiology LAB:</b> Blood pressure, heart sounds, pulse	Dr. Özgür Kasımay Çakır
<b>Wednesday</b>	<b>14 October</b>	
<b>09:00-09:50</b>	Congenital cyanotic heart disease	Dr. Figen Akalın
<b>10:00-10:50</b>	Pharmacotherapy of cardiac dysrhythmias	Dr. Atila Karaalp
<b>11:00-11:50</b>	Pharmacotherapy of cardiac dysrhythmias	Dr. Atila Karaalp
<b>13:00-13:50</b>	Pharmacotherapy of hyperlipidemias	Dr. Atila Karaalp
<b>14:00-14:50</b>	<b>Physiology LAB:</b> ECG-1	Dr. Özgür Kasımay Çakır
<b>15:00-15:50</b>	<b>Physiology LAB:</b> ECG-1	Dr. Özgür Kasımay Çakır
<b>16:00-16:50</b>	Pulmonary hypertension in cardiology	Dr. Bülent Mutlu
<b>17:00-17:50</b>	Infective endocarditis	Dr. Bülent Mutlu
<b>Thursday</b>	<b>15 October</b>	
<b>09:00-09:50</b>	Pharmacotherapy in peripheral arterial occlusive diseases	Dr. Eren Sakallı*
<b>10:00-10:50</b>	Pharmacotherapy in venous thromboembolic disease	Dr. Eren Sakallı*
<b>11:00-11:50</b>	STUDY TIME	
<b>13:00-13:50</b>	Epidemiology of hypertension and rheumatic fever	Dr. Nimet Emel Lüleci
<b>14:00-14:50</b>	Acute rheumatic fever	Dr. Figen Akalın
<b>15:00-15:50</b>	Acute rheumatic fever	Dr. Figen Akalın
<b>16:00-16:50</b>	Radiology of the cardiovascular system	Dr. Onur Buğdaycı
<b>17:00-17:50</b>	Pharmacotherapy of heart failure	Dr. Atila Karaalp
<b>18:00-18:50</b>	Pharmacotherapy of heart failure	Dr. Atila Karaalp
<b>Friday</b>	<b>16 October</b>	
<b>09:00-09:50</b>	Myocardial scintigraphy and radionuclide ventriculography	Dr. Nahide Gökçora*
<b>10:00-10:50</b>	Introduction to cardiovascular pharmacology	Dr. Zafer Gören
<b>11:00-11:50</b>	Cardiovascular diseases in special population	Dr. Halil Ataş
<b>13:00-13:50</b>	Pharmacotherapy of ischemic heart disease and MI	Dr. Ahmet Akıcı
<b>14:00-14:50</b>	Pharmacotherapy of ischemic heart disease and MI	Dr. Ahmet Akıcı
<b>15:00-15:50</b>	STUDY TIME	
<b>18:00-18:30</b>	<b>Trial Exam</b>	

Last updated on January 25, 2021

7 <sup>th</sup> Week (19 - 23 October 2020)		
<b>Monday</b>	<b>19 October</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	STUDY TIME	
13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
<b>Tuesday</b>	<b>20 October</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	STUDY TIME	
13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
<b>Wednesday</b>	<b>21 October</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	STUDY TIME	
13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
<b>Thursday</b>	<b>22 October</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	STUDY TIME	
13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
<b>Friday</b>	<b>23 October</b>	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	STUDY TIME	
13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	

Last updated on January 25, 2021

	8 <sup>th</sup> Week	
<b>Monday</b>	<b>26 October</b>	
	<b>Y3C1 THEORETICAL EXAM (ONLINE)</b>	