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| **C:\Users\Namariel\Downloads\TıpF (1)\TıpF\TıpF-2.png****MARMARA UNIVERSITY SCHOOL of MEDICINE** |
| **cardiovascular.gif**CARDIOVASCULAR SYSTEM AND RELATED DISORDERS YEAR 3 COURSE 1September 04 – October 13, 2023 |
| **Coordinator of the Course 3.1**Prof. Dr. Beste ÖZBEN SADIÇ | **Coordinator of the Module 3.1**Prof. Dr. Halil ATAŞ |
| **Year 3 Coordinators** Prof. Dr. Arzu İLKİ & Prof. Dr. Pınar Mega TİBER |
| **Module Coordinator**Prof. Dr. Rezzan GÜLHANAssist. Prof. Dr. Sinem YILDIZ İNANICI | **Introduction to Clinical Practice (ICP) Coordinator**Prof. Dr. Pemra CÖBEK ÜNALANProf. Dr. Serap ÇİFÇİLİ |
|  **Coordinator of Multidisciplinary Students’ Lab**.Prof. Dr. Betül YILMAZ | **Coordinator of Clinical Skills Lab.**Prof. Dr. Çiğdem APAYDIN KAYA |
|  **Coordinator of Assessment Unite**Assoc. Prof. Dr. Cevdet NACAR | **Coordinator of Student Exchange Programs**Assist. Prof. Dr. Can ERZİK |
| **Vice-Chief Coordinators** |
| **Program**Prof. Dr. Oya ORUN | **Assessment** Prof. Dr. Hasan Raci YANANLI  | **Students’ Affairs**Assist. Prof. Dr. Can ERZİK  |
| **Chief Coordinator (Pre-Clinical Education)** Prof. Dr. Serap ŞİRVANCI | **Coordinator of Medical Education Program Evaluation and Development Commission**Prof. Dr. Harika ALPAY |
| **Vice Dean (Education)**Prof. Dr. Altuğ ÇİNÇİN & Prof. Dr. Hasan Raci YANANLI | **Dean**Prof. Dr. Ümit Süleyman ŞEHİRLİ |

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| MU MEDICAL SCHOOL PRE-CLINICAL EDUCATION PROGRAM |
| LEARNING OUTCOMES / COMPETENCIES1. Clinical Care: Qualified patient care and community oriented health care
2. Basic clinical skills
3. The organization and management of the patient and the patient care
4. The organization and the management of health care delivery services / system
5. Health promotion and disease prevention
6. Medical Knowledge and Evidence-Based Medicine
7. Appropriate information retrieval and management skills
8. The integration of knowledge, critical thinking and evidence-based decision making
9. Scientific methods and basic research skills
10. Professional Attitudes and Values
11. Communication skills and effective communication with patients / patient relatives
12. Interpersonal relationships and team working
13. Ethical and professional values, responsibilities
14. Individual, social and cultural values and responsibilities
15. Reflective practice and continuing development
16. Healthcare delivery systems, management and community oriented health care
17. Education and counseling
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| PHASE-1 LEARNING OBJECTIVES1. 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.
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| PHASES – 1 THEMA/ORGAN SYSTEM-BASED COURSE PROGRAMSYear 1, Course 1: Introduction to Cell and Cellular ReplicationYear 1, Course 2: Cellular Metabolism and TransportYear 1, Course 3: Development and Organization of Human BodyYear 1, Course 4: Introduction to Nervous System and Human BehaviorYear 2, Course 1: Cell and Tissue Injury I Year 2, Course 2: Cell and Tissue Injury IIYear 2, Course 3: Hematopoietic System and Related DisordersYear 2, Course 4: Musculoskeletal, Integumentary Systems and Related DisordersYear 2, Course 5: Respiratory System and Related DisordersYear 3, Course 1: Cardiovascular System and Related DisordersYear 3, Course 2: Gastrointestinal System, Metabolism and Related DisordersYear 3, Course 3: Nervous System and Related DisordersYear 3, Course : Growth, Development, Mental Health and Related DisordersYear 3, Course 5: Urinary and Reproductive System and Related Disorders |

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| 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
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| **ASSESSMENT SYSTEM**Module examination: Written exam at the end of module (10 % of final score)Practical examination: Practical exams at the end of courseCourse 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
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| **LECTURERS / TUTORS** |

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| Koray AK, Professor of Cardiovascular SurgeryAhmet AKICI, Professor of Clinical PharmacologyFigen AKALIN, Professor of Pediatric CardiologyHalil ATAŞ, Assoc. Professor of CardiologySaime BATIREL, Professor of BiochemistryBerna TERZİOĞLU BEBİTOĞLU, Professor of Clinical PharmacologyZeliha Leyla CİNEL, Professor of PathologyHülya CABADAK, Professor of BiophysicsŞule ÇETİNEL, Professor of Histology and EmbryologySaliha Serap ÇİFÇİLİ, Professor of Family MedicineAhmet Altuğ ÇİNÇİN, Professor of Cardiologyİpek ERBARUT, Professor of PathologyElif EROLU, Assoc. Professor of Pediatric CardiologyZafer GÖREN, Professor of PharmacologyYusuf Emre GÜREL, Assoc. Professor of Cardiology Özgür KASIMAY, Professor of PhysiologyMert KAŞKAL, Lecturer of PharmacologyÇiğdem APAYDIN KAYA, Professor of Familiy MedicineÖzlem Tuğçe KAYA, Assoc. Professor of Histology and EmbryologyAlper KEPEZ, Professor of CardiologyHızır KURTEL, Professor of PhysiologyNimet Emel LÜLECİ, Professor of Public Health | Bülent MUTLU, Professor of CardiologyCevdet NACAR, Assoc. Professor of BiophysicsBanu AYDIN OMAY, Assoc. Professor of BiophysicsOya ORUN, Professor of BiophysicsNecmettin Ömer ÖZDOĞMUŞ, Professor of AnatomyBeste ÖZBEN SADIÇ, Professor of CardiologyNurten SAYAR, Professor of CardiologyEfe SOYDEMİR, Assist. Professor of RadiologyMehmet Ali SÖYLEMEZ, Lecturer of Medical GeneticsErdi SÖZEN, Assist. Professor of Biochemistry Murat SÜNBÜL, Professor of CardiologyÖnder ŞİRİKÇİ, Professor of Biochemistry Mustafa Kürşat TİGEN, Professor of CardiologyHalil Turgut TUROĞLU, Professor of Nuclear MedicineHüseyin Kemal TÜRKÖZ, Assoc. Professor of PathologyArzu UZUNER, Professor of Familiy MedicineNurver ÜLGER, Professor of MicrobiologyGülru Pemra CÖBEK ÜNALAN, Professor of Familiy MedicineÜlkü Sur ÜNAL, Assist. Professor of Family MedicineBerrak YEĞEN, Professor of PhysiologyAlper YILDIRIM, Professor of Physiology  |

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| **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.
* **K**ardiyoloji, 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  |
| **Discipline** | **Lecture & Group Discussion** | **Multidisciplinary Lab. & Clinical Skills Lab. Practice** | Total |
| Anatomy | 4 | 1 | 5 |
| Biochemistry | 10 |  | 10 |
| Biophysics | 7 |  | 7 |
| Cardiology | 28 |  | 28 |
| Cardiovascular Surgery | 1 |  | 1 |
| Clinical Pharmacology | 12 |  | 12 |
| Family Medicine | 2 |  | 2 |
| Histology and Embryology | 5 | 1 | 6 |
| Nuclear Medicine | 1 |  | 1 |
| Microbiology  | 1 |  | 1 |
| Pathology | 7 | 1 | 8 |
| Pediatric Cardiology | 5 |  | 5 |
| Physiology | 17 | 3 | 20 |
| Public Health | 1 |  | 1 |
| Radiology | 1 |  | 1 |
| Genetics | 1 |  | 1 |
| Subtotal | 103 | 6 | 109 |
| PBL Module | 10 |  | 10 |
| ICP-3: Basic Medical Practices, Clinical Skills Lab., Student Research Activity | 1 |  8 | 9 |
| **TOTAL** | **114** | **14** | **128** |

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| **SEVEN WEEK PROGRAM** |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week-1 (04 September - 08 September 2023)** |
| **Monday** | **04 September** |   |
| 08:40 – 09:30 | Introduction to the course and opening lecture | Dr. Mustafa Kürşat Tigen |
| 09:40 – 10:30 | Physiological properties of the cardiac muscle | Dr. Alper Yıldırım |
| 10:40 – 11:30 | Coronary circulation | Dr. Alper Yıldırım |
| 11:40 – 12:30 |  |  |
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| 13:40 – 14:30 |  |  |
| 14:40 – 15:30 |  |  |
| 15:40 – 16:30 |  |  |
| 16:40 – 17:30 |  |  |
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| **Tuesday** | **05 September** |  |
| 08:40 – 09:30 |  |  |
| 09:40 – 10:30 | Anatomy of the vessels (arterial and venous system) | Dr. Necmettin Ömer Özdoğmuş |
| 10:40 – 11:30 | Cardiac cycle | Dr. Berrak Yegen |
| 11:40 – 12:30 | Cardiac cycle | Dr. Berrak Yegen |
|  |  |  |
| 13:40 – 14:30 | Regulation of blood pressure | Dr. Hızır Kurtel |
| 14:40 – 15:30 | Regulation of blood pressure | Dr. Hızır Kurtel |
| 15:40 – 16:30 |  |  |
| 16:40 – 17:30 |  |  |
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| **Wednesday** | **06 September** |  |
| 08:40 – 09:30 | Heart and pericardium | Dr. Necmettin Ömer Özdoğmuş |
| 09:40 – 10:30 | Principles of ECG | Dr. Berrak Yegen |
| 10:40 – 11:30 | Principles of ECG | Dr. Berrak Yegen |
| 11:40 – 12:30 | Heart sounds | Dr. Özgür Kasımay |
|  |  |  |
| 13:40 – 14:30 |  |  |
| 14:40 – 15:30 | ECG and its interpretation | Dr. Özgür Kasımay |
| 15:40 – 16:30 |  |  |
| 16:40 – 17:30 |  |  |
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| **Thursday** | **07 September** |  |
| 08:40 – 09:30 |  |  |
| 09:40 – 10:30 | Histology of the heart | Dr. Özlem Tuğçe Kaya |
| 10:40 – 11:30 | Histology of blood vessels | Dr. Özlem Tuğçe Kaya |
| 11:40 – 12:30 | Histology of blood vessels | Dr. Özlem Tuğçe Kaya |
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| 13:40 – 14:30 | Arterial pulse | Dr. Özgür Kasımay |
| 14:40 – 15:30 | Principles of hemodynamics | Dr. Hızır Kurtel |
| 15:40 – 16:30 | Principles of hemodynamics | Dr. Hızır Kurtel |
| 16:40 – 17:30 |  |  |
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| **Friday** | **08 September** |  |
| 08:40 – 09:30 | Heart and pericardium | Dr. Necmettin Ömer Özdoğmuş |
| 09:40 – 10:30 | Heart and pericardium | Dr. Necmettin Ömer Özdoğmuş |
| 10:40 – 11:30 |  |  |
| 11:40 – 12:30 |  |  |
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| 13:40 – 14:30 |  |  |
| 14:40 – 15:30 | Electrical fields, potential at a point | Dr. Cevdet Nacar |
| 15:40 – 16:30 | Cardiac action potentials | Dr. Hülya Cabadak |
| 16:40 – 17:30 |  |  |
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| **Week-2 (11 September - 15 September 2023)** |
| **Monday** | **11 September** |  |
| 08:40 – 09:30 |  |  |
| 09:40 – 10:30 |  |  |
| 10:40 – 11:30 | Regulation of cardiac functions | Dr. Alper Yıldırım |
| 11:40 – 12:30 | Cardiac output | Dr. Alper Yıldırım |
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| 13:40 – 14:30 | Physiology LAB: ECG-1 | Computer Lab. |
| 14:40 – 15:30 | Physiology LAB: ECG-1 | Computer Lab. |
| 15:40 – 16:30 | Physiology LAB: ECG-1 | Computer Lab. |
| 16:40 – 17:30 | Physiology LAB: ECG-1 | Computer Lab. |
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| **Tuesday** | **12 September** |  |
| 08:40 – 09:30 |  |  |
| 09:40 – 10:30 | Principles of electrocardiography | Dr. Oya Orun |
| 10:40 – 11:30 | Radiology of the cardiovascular system | Dr. Efe Soydemir |
| 11:40 – 12:30 | Introduction to ICP-3 | ICP Lab. |
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| 13:40 – 14:30 | Anatomy LAB: Heart and pericardium-Group A | Anatomy Lab. |
| 14:40 – 15:30 | Anatomy LAB: Heart and pericardium-Group B | Anatomy Lab. |
| 15:40 – 16:30 |  |  |
| 16:40 – 17:30 |  |  |
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| **Wednesday** | **13 September** |  |
| 08:40 – 09:30 |  |  |
| 09:40 – 10:30 | Approach to the patient with cardiovascular system disease | Dr. Ahmet Altuğ Çinçin |
| 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 |
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| 13:40 – 14:30 | Regulation of blood flow | Dr. Özgür Kasımay |
| 14:40 – 15:30 | Circulation through specific organs | Dr. Özgür Kasımay |
| 15:40 – 16:30 | Viscosity, laminar and turbulent flow | Dr. Oya Orun |
| 16:40 – 17:30 | The role of gravity in the circulation | Dr. Oya Orun |
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| **Thursday** | **14 September** |  |
| 08:40 – 09:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
| 09:40 – 10:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
| 10:40 – 11:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
| 11:40 – 12:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
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| 13:40 – 14:30 | Examination of the heart and vessels | Dr. Nurten Sayar |
| 14:40 – 15:30 | Examination of the heart and vessels | Dr. Nurten Sayar |
| 15:40 – 16:30 | Diagnostic methods in cardiology | Dr. Beste Özben Sadıç |
| 16:40 – 17:30 | Diagnostic methods in cardiology | Dr. Beste Özben Sadıç |
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| **Friday** | **15 September** |  |
| 08:40 – 09:30 | Histology LAB: Histology of heart, blood vessels |  |
| 09:40 – 10:30 | Histology LAB: Histology of heart, blood vessels |  |
| 10:40 – 11:30 | Histology LAB: Histology of heart, blood vessels |  |
| 11:40 – 12:30 | Histology LAB: Histology of heart, blood vessels |  |
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| 13:40 – 14:30 |  |  |
| 14:40 – 15:30 | Hyperlipidemias and atherosclerosis | Dr. Erdi Sözen |
| 15:40 – 16:30 | Hyperlipidemias and atherosclerosis | Dr. Erdi Sözen |
| 16:40 – 17:30 |  |  |
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| **Week-3 (18 September - 22 September 2023)** |
| **Monday** | **18 September** |  |
| 08:40 – 09:30 | Epidemiology of cardiovascular diseases | Dr. Nimet Emel Lüleci |
| 09:40 – 10:30 | Vascular events | Dr. Erdi Sözen |
| 10:40 – 11:30 | Atherosclerosis & hypertensive cardiovascular events | Dr. Zeliha Leyla Cinel |
| 11:40 – 12:30 | Atherosclerosis & hypertensive cardiovascular events | Dr. Zeliha Leyla Cinel |
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| 13:40 – 14:30 | Development of the cardiovascular system | Dr. Şule Çetinel |
| 14:40 – 15:30 | Development of the cardiovascular system | Dr. Şule Çetinel |
| 15:40 – 16:30 | PBL-1 |  |
| 16:40 – 17:30 | PBL-1 |  |
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| **Tuesday** | **19 September** |  |
| 08:40 – 09:30 |  |  |
| 09:40 – 10:30 |  |  |
| 10:40 – 11:30 | Biochemical aspects of the metabolic syndrome | Dr. Saime Batırel |
| 11:40 – 12:30 | Biochemical aspects of the metabolic syndrome | Dr. Saime Batırel |
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| 13:40 – 14:30 | Physiology LAB: ECG-2 | Computer Lab. |
| 14:40 – 15:30 | Physiology LAB: ECG-2 | Computer Lab. |
| 15:40 – 16:30 | Physiology LAB: ECG-2 | Computer Lab. |
| 16:40 – 17:30 | Physiology LAB: ECG-2 | Computer Lab. |
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| **Wednesday** | **20 September** |  |
| 08:40 – 09:30 | Ischaemic heart disease | Dr. İpek Erbarut |
| 09:40 – 10:30 | Ischaemic heart disease | Dr. İpek Erbarut |
| 10:40 – 11:30 | Coronary artery disease | Dr. Mustafa Kürşat Tigen |
| 11:40 – 12:30 | Coronary artery disease | Dr. Mustafa Kürşat Tigen |
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| 13:40 – 14:30 | PBL Study Time |  |
| 14:40 – 15:30 | PBL-2 |  |
| 15:40 – 16:30 | PBL-2 |  |
| 16:40 – 17:30 |  |  |
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| **Thursday** | **21 September** |  |
| 08:40 – 09:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 09:40 – 10:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 10:40 – 11:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 11:40 – 12:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
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| 13:40 – 14:30 | Cardiac injury and markers | Dr. Önder Şirikçi |
| 14:40 – 15:30 | Cardiac injury and markers | Dr. Önder Şirikçi |
| 15:40 – 16:30 | Acute coronary syndrome | Dr. Alper Kepez |
| 16:40 – 17:30 | Acute coronary syndrome | Dr. Alper Kepez |
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| **Friday** | **22 September** |  |
| 08:40 – 09:30 |  |  |
| 09:40 – 10:30 | Myocardial scintigraphy and radionuclide ventriculography | Dr. Halil Turgut Turoğlu |
| 10:40 – 11:30 | Pharmacotherapy of ischemic heart disease and MI | Dr. Ahmet Akıcı |
| 11:40 – 12:30 | Pharmacotherapy of ischemic heart disease and MI | Dr. Ahmet Akıcı |
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| 13:40 – 14:30 |  |  |
| 14:40 – 15:30 | PBL Study Time |  |
| 15:40 – 16:30 |  |  |
| 16:40 – 17:30 |  |  |
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| **Week-4 (25 September - 29 September 2023)** |  |  |
| **Monday** | **25 September** |  |
| 08:40 – 09:30 | Lipoprotein metabolism | Dr. Saime Batırel |
| 09:40 – 10:30 | Lipoprotein metabolism | Dr. Saime Batırel |
| 10:40 – 11:30 | Lipoprotein metabolism | Dr. Saime Batırel |
| 11:40 – 12:30 | Pharmacotherapy of hyperlipidemias | Dr. Ahmet Akıcı |
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| 13:40 – 14:30 | Genetic basis of the cardiovascular diseases  | Dr. Mehmet Ali Söylemez |
| 14:40 – 15:30 | PBL-3 |  |
| 15:40 – 16:30 | PBL-3 |  |
| 16:40 – 17:30 |  |  |
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| **Tuesday** | **26 September** |  |
| 08:40 – 09:30 | Heart failure and cardiogenic shock | Dr. Murat Sünbül |
| 09:40 – 10:30 | Heart failure and cardiogenic shock | Dr. Murat Sünbül |
| 10:40 – 11:30 | Fluid Mechanics | Dr. Banu Aydın Omay |
| 11:40 – 12:30 | Fluid Mechanics | Dr. Banu Aydın Omay |
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| 13:40 – 14:30 | Cardiomyopathies and myocarditis | Dr. Nurten Sayar |
| 14:40 – 15:30 | Pericarditis | Dr. Alper Kepez |
| 15:40 – 16:30 | Clinical electrocardiography | Dr. Halil Ataş |
| 16:40 – 17:30 | Clinical electrocardiography | Dr. Halil Ataş |
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| **Wednesday** | **27 September** |  |
| 08:40 – 09:30 | Cardiac dysrhythmias | Dr. Ahmet Altuğ Çinçin |
| 09:40 – 10:30 | Cardiac dysrhythmias | Dr. Ahmet Altuğ Çinçin |
| 10:40 – 11:30 | Pharmacotherapy of cardiac dysrhythmias | Dr. Berna Terzioğlu Bebitoğlu |
| 11:40 – 12:30 | Pharmacotherapy of cardiac dysrhythmias | Dr. Berna Terzioğlu Bebitoğlu |
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| 13:40 – 14:30 | PBL Study Time |  |
| 14:40 – 15:30 | PBL-4 |  |
| 15:40 – 16:30 | PBL-4 |  |
| 16:40 – 17:30 |  |  |
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| **Thursday** | **28 September** |  |
| 08:40 – 09:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 09:40 – 10:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 10:40 – 11:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 11:40 – 12:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
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| 13:40 – 14:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 14:40 – 15:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 15:40 – 16:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 16:40 – 17:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
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| **Friday** | **29 September** |  |
| 08:40 – 09:30 | Adult patient with chest pain. Primary care approach | Dr. Ülkü Sur Ünal |
| 09:40 – 10:30 | Systemic hypertension and hypertensive heart disease | Dr. Yusuf Emre Gürel |
| 10:40 – 11:30 | Systemic hypertension and hypertensive heart disease | Dr. Yusuf Emre Gürel |
| 11:40 – 12:30 | Syncope and sudden cardiac death | Dr. Halil Ataş |
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| 13:40 – 14:30 |  |  |
| 14:40 – 15:30 | Pharmacotherapy of hypertension | Dr. Ahmet Akıcı |
| 15:40 – 16:30 | Pharmacotherapy of hypertension | Dr. Ahmet Akıcı |
| 16:40 – 17:30 | Pharmacotherapy of hypertension | Dr. Ahmet Akıcı |
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| **Week-5 (02 October - 06 October 2023)** |
| **Monday** | **02 October** |  |
| 08:40 – 09:30 | Physiology LAB: Blood pressure, heart sounds, pulse | Multidisciplinary Lab. |
| 09:40 – 10:30 | Physiology LAB: Blood pressure, heart sounds, pulse | Multidisciplinary Lab. |
| 10:40 – 11:30 | Physiology LAB: Blood pressure, heart sounds, pulse | Multidisciplinary Lab. |
| 11:40 – 12:30 | Physiology LAB: Blood pressure, heart sounds, pulse | Multidisciplinary Lab. |
|  |  |  |
| 13:40 – 14:30 | PBL Study Time |  |
| 14:40 – 15:30 | PBL-5 |  |
| 15:40 – 16:30 | PBL-5 |  |
| 16:40 – 17:30 |  |  |
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| **Tuesday** | **03 October** |  |
| 08:40 – 09:30 | Acute rheumatic fever | Dr. Figen Akalın |
| 09:40 – 10:30 | Acute rheumatic fever | Dr. Figen Akalın |
| 10:40 – 11:30 | Microbiological approach to cardiovascular infections | Dr. Nurver Ülger |
| 11:40 – 12:30 | Valvular diseases of the heart | Dr. Hüseyin Kemal Türköz |
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| 13:40 – 14:30 | Valvular heart disease | Dr. Bülent Mutlu |
| 14:40 – 15:30 | Valvular heart disease | Dr. Bülent Mutlu |
| 15:40 – 16:30 | Pulmonary hypertension in cardiology | Dr. Bülent Mutlu |
| 16:40 – 17:30 |  |  |
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| **Wednesday** | **04 October** |  |
| 08:40 – 09:30 | Congenital acyanotic heart disease with left to right shunt | Dr. Figen Akalın |
| 09:40 – 10:30 | Congenital cyanotic heart disease | Dr. Figen Akalın |
| 10:40 – 11:30 | Congenital heart disease with valvular obstruction or stenosis | Dr. Elif Erolu |
| 11:40 – 12:30 | Neoplastic diseases of the heart & blood vessels | Dr. Hüseyin Kemal Türköz |
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| 13:40 – 14:30 | Vasculitis | Dr. Zeliha Leyla Cinel |
| 14:40 – 15:30 | Diseases of the aorta and the peripheral blood vessels | Dr. Yusuf Emre Gürel |
| 15:40 – 16:30 | Elderly patient with leg pain: Primary care approach | Dr. Pemra Cöbek Ünalan |
| 16:40 – 17:30 | Cardiovascular diseases in special population | Dr. Murat Sünbül |
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| **Thursday** | **05 October** |  |
| 08:40 – 09:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 09:40 – 10:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 10:40 – 11:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
| 11:40 – 12:30 | ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 | ICP Lab. |
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| 13:40 – 14:30 | Approach to thromboembolic disorders | Dr. Koray Ak |
| 14:40 – 15:30 | Pharmacotherapy in peripheral arterial occlusive and venous thromboembolic diseases | Dr. Mert Kaşkal |
| 15:40 – 16:30 | Pharmacotherapy of heart failure | Dr. Mert Kaşkal |
| 16:40 – 17:30 | Pharmacotherapy of heart failure | Dr. Mert Kaşkal |
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| **Friday** | **06 October** |  |
| 08:40 – 09:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
| 09:40 – 10:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
| 10:40 – 11:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
| 11:40 – 12:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
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| 13:40 – 14:30 |  |  |
| 14:40 – 15:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
| 15:40 – 16:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
| 16:40 – 17:30 | Pathology LAB: Heart and valvular diseases | Multidisciplinary Lab. |
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| **Week-6 (09 October - 13 October 2023)** |
| **Monday** | **09 October** |  |
| 08:40-09:30 | **Y3C1 PRACTICAL EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 | Elective Course |  |
| 16:40-17:30 | Elective Course |  |
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| **Tuesday** |  **October** |  |
| 08:40-09:30 | **Y3C1 PRACTICAL EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **11 October** |  |
| 08:40-09:30 | **Y2C1 COMMITTEE EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Thursday** | **12 October** |  |
| 08:40-09:30 | **Y3C1 THEORETICAL EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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| **Friday** | **13 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
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