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| C:\Users\Namariel\Downloads\TıpF (1)\TıpF\TıpF-2.png**MARMARA UNIVERSITY SCHOOL of MEDICINE** |
| villus-560x560.jpgGASTROINTESTINAL SYSTEM, METABOLISM AND RELATED DISORDERSYEAR 3 COURSE 2October 25 – December 24, 2021 |
| **Coordinator of the Course 3.2**Lect. Ayşe Mine YILMAZ GÖLER | **Coordinator of the Module 3.2**Prof. Özlen Atuğ |
| **Year 3 Coordinators**Prof. Arzu İLKİ & Assoc. Prof. Pınar Mega TİBER |
| **Module Coordinator**Prof. Rezzan GÜLHAN, Assist.Prof. Sinem YILDIZ İNANICI | **Introduction to Clinical Practice (ICP) Coordinators**Prof. Pemra CÖBEK ÜNALANProf. Serap ÇİFÇİLİ |
|  **Coordinator of Multidisciplinary Students’ Lab**.Prof. Betül YILMAZ | **Coordinator of Clinical Skills Lab.**Assoc. Prof. Çiğdem APAYDIN |
|  **Coordinator of Assessment Unite**Assist. Prof. Cevdet NACAR | **Coordinator of Student Exchange Programs**Assist. Prof. Can ERZİK |
| **Vice-Chief Coordinators** |
| **Program**Prof. Oya ORUN | **Assessment** Prof. Hasan R. YANANLI | **Students’ Affairs**Assist. Prof. Can ERZİK |
| **Chief Coordinator (Pre-Clinical Education)**Prof. Serap ŞİRVANCI | **Coordinator of Medical Education Program Evaluation and Development Commission**Prof. Harika ALPAY |
| **Vice Dean (Education)**Assoc. Prof. Altuğ ÇİNÇİN & Prof. Hasan R. YANANLI | **Dean**Prof. 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 IYear 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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| GASTROINTESTINAL SYSTEM, METABOLISM AND RELATED DISORDERS |
| AIM and LEARNING OBJECTIVES of COURSE**Aim:** At the end of this committee, third year students will gain knowledge about the development, structure and physiology of the gastrointestinal system and pathogenesis of the disorders related to this system. They will also gain knowledge about the signs and symptoms of gastrointestinal system disorders, related risk factors, prevention, diagnosis and principles of treatment.**Learning Objectives:** At the end of this committee, third year student will,* understand and review the development, histology and structure of the gastrointestinal system,
* understand the working mechanism of gastrointestinal function and its regulation,
* comprehend gastrointestinal system as a processor converting foods to building stones of energy,
* define the pathologic processes in gastrointestinal system disorders,
* gain knowledge about microorganisms that affect the gastrointestinal system and its infections,
* gain knowledge about the risk factors related to gastrointestinal system disorders and preventive measures,
* gain knowledge about the major signs and symptoms of these disorders
* gain knowledge about the approach to diagnosis, and principles of treatment in gastrointestinal disorders and
* comprehend laboratory investigation as a part of differential diagnosis.
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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-3.2 & MODULE-3.2 |
| AnatomyBiochemistryBiophysicsDentistryFamily MedicineGastroenterologyGeneral SurgeryHistology and EmbryologyMicrobiology | Medical BiologyNuclear MedicinePathologyPharmacologyPediatricsPediatric SurgeryPhysiologyPublic HealthRadiology |

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| LECTURERS / TUTORS |
| Ahmet AKICI, Professor of PharmacologyAhmet ARMAN, Professor of Medical GeneticsÇiğdem ATAİZİ ÇELİKEL, Professor of PathologyÖzlen ATUĞ, Professor of Internal Medicine – GastroenterologyNadiye Pınar AY, Professor of Public HealthPelin BAĞCI, Professor of PathologySaime BATIREL, Assoc. Professor of BiochemistryEmine BOZKURTLAR, Assist. Professor of PathologyZeliha Leyla CİNEL, Professor of PathologyŞule ÇETİNEL, Professor of Histology and EmbryologyFeriha ERCAN, Professor of Histology and EmbryologyRabia ERGELEN, Assist. Professor of RadiologyDeniz ERTEM, Professor of PediatricsZafer GÖREN, Professor of PharmacologyÖmer GÜNAL, Professor of General SurgeryFeyza GÜNDÜZ, Assoc. Professor of Internal Medicine – GastroenterologyGoncagül HAKLAR, Professor of BiochemistryUfuk HASDEMİR, Professor of MicrobiologyMedine Gülçebi İDRİZ OĞLU, Assoc. Professor of PharmacologyZeynep Arzu İLKİ, Professor of MicrobiologyKıvılcım KARADENİZ CERİT, Assoc. Professor of Pediatric SurgeryAyşegül KARAHASAN, Professor of Microbiology | Nesrin KARTAL ÖZER, Professor of BiochemistryÖzgür KASIMAY ÇAKIR, Professor of PhysiologyHızır KURTEL, Professor of PhysiologyNimet Emel LÜLECİ, Professor of Public HealthCevdet NACAR, Assist. Professor of BiophysicsOya ORUN, Professor of BiophysicsOsman Cavit ÖZDOĞAN, Professor of Internal Medicine - GastroenterologyNecmettin Ömer ÖZDOĞMUŞ, Assoc. Professor of AnatomyYeşim ÖZEN ALAHDAB, Assoc. Professor of Internal Medicine – GastroenterologyÜmit Süleyman ŞEHİRLİ, Professor of AnatomyÖnder ŞİRİKÇİ, Professor of BiochemistrySerap ŞİRVANCI, Professor of Histology and EmbryologyAyşe Gülsen TEKER, Lecturer of Public HealthHalil Turgut TUROĞLU, Professor of Nuclear MedicineArzu UZUNER, Professor of Family MedicineNurver ÜLGER, Professor of MicrobiologyGülru Pemra ÜNALAN, Professor of Family MedicineUral VERİMLİ, Assist. Professor of AnatomyHasan Raci YANANLI, Assoc. Professor of PharmacologyBerrak YEGEN, Professor of PhysiologyAlper YILDIRIM, Assoc. Professor of PhysiologyBetül YILMAZ, Professor of BiochemistryYusuf YILMAZ, Professor of Internal Medicine - Gastroenterology |
| READING / STUDYING MATERIALS* Biochemistry, Stryer, 4th Ed., Freeman
* Biochemistry, Zubay, 3rd Ed., WCB
* Harper's Biochemistry, Murray, Granner, 23rd Ed., Lange Interscience, New Jersey 2003
* Introduction to Biostatistics For Health Sciences, Micheal R. Chernick, Robert H. Friss, Willey
* Lehninger Principles of Biochemistry, Nelson, Cox, 3rd edition, Worth
* Medical Statistics at a Glance, Aviva Petrie, Caroline Sabin, Blackwell Science, London, 2003
* Physics, Giancoli, 4th Ed., Prentice Hall
* Practical Statistics For Medical Research, Douglas Altman, Chapman & Hall, London 1995
* Principles of Physiology, Bern and Levy, 4th Ed.
* Temel Biyoistatistik, Mustafa Şenocak, Çağlayan Kitapevi, İstanbul 1990
* Textbook of Physiology, Guyton and Hall, 10th Ed.
* The Cell: A Molecular Approach, Cooper, 2nd Ed., ASM Press
* Molecular Biology of the Cell, Alberts et al. 3rd Ed., Garland
* Basic Pathology (Stanley L. Robbins, Arcia Angel, Vinay Kumar)
* Color Textbook of Histology (Gartner, Hiatt)
* Developing Human (Moore)
* Histology and Cell Biology: An Introduction to Pathology (Abraham L. Kierszenbaum)
* Infectious Diseases (Bannistar, Begg, Gillespie)
* İnfeksiyon Hastalıkları ve Mikrobiyolojisi Cilt 1, 2 (Topçu, Söyletir, Doğanay)
* Tietr Textbook of Clinical Chemistry (Burtis, Ashwood)
* CURRENT Diagnosis & Treatment Gastroenterology, Hepatology, & Endoscopy, Second Edition 2012 (LANGE CURRENT Series) Norton Greenberger, Richard Blumberg, Robert Burakoff, Physiology of the Gastrointestinal Tract (Johnson, Alper, Christensen, Jacobson, Walsh)
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| SUMMARY OF THE COURSE |
| **Discipline** | **Lecture & Group Discussion** | **Multidisciplinary Lab. & Clinical Skills Lab. Practice** | Total |
| Anatomy | 16 | 8 | 24 |
| Biochemistry | 22 | 4 | 26 |
| Biophysics | 3 |  | 3 |
| Histology and Embryology | 9 | 6 | 15 |
| Family Medicine | 2 |  | 2 |
| General Surgery | 1 |  | 1 |
| Internal Medicine-Gastroenterology | 21 |  | 21 |
| Medical Genetics | 1 |  | 1 |
| Microbiology | 9 | 2 | 11 |
| Nuclear Medicine | 1 |  | 1 |
| Pathology | 19 | 6 | 25 |
| Pediatrics | 3 |  | 3 |
| Pediatric Surgery | 1 |  | 1 |
| Pharmacology | 5 |  | 5 |
| Physiology | 17 |  | 17 |
| Public Health | 3 |  | 3 |
| Radiology | 2 |  | 2 |
| Subtotal | 139 | 26 | 165 |
| PBL Module | 8 |  | 8 |
| TOTAL | 147 | 26 | 173 |
| ICP-3: Basic Medical Practices, Clinical Skills Lab., (Students’ Research Activity) | 20 | 12 | 32 |
| **TOTAL** | **167** | **38** | **205** |

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| **NINE WEEK PROGRAM** |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week – 1 (25 October - 29 October 2021)** |
| **Monday** | **25 October** |  |
|  |  |  |
| 08:40-09:30 | Introduction to the course and opening lecture |  |
| 09:40-10:30 | Oral cavity, intraoral structures | Dr. Necmettin Ömer Özdoğmuş |
| 10:40-11:30 | Oral cavity, intraoral structures | Dr. Necmettin Ömer Özdoğmuş |
| 11:40-12:30 | Salivary glands | Dr. Ural Verimli |
|  |  |  |
| 13:40-14:30 | Histology of oral cavity, lip, tooth, tongue and esophagus | Dr. Şule Çetinel |
| 14:40-15:30 | Histology of oral cavity, lip, tooth, tongue and esophagus | Dr. Şule Çetinel |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective Course |  |
| 18:40-19:30 | Elective Course |  |
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| **Tuesday** | **26 October** |  |
|  |  |  |
| 08:40-09:30 | Esophagus, stomach, duodenum and pancreas | Dr. Ümit Süleyman Şehirli |
| 09:40-10:30 | Esophagus, stomach, duodenum and pancreas | Dr. Ümit Süleyman Şehirli |
| 10:40-11:30 | Introduction to gastrointestinal system | Dr. Alper Yıldırım |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 | Anatomy LAB: Oral cavity, intraoral structures-Group A | Anatomy Lab. |
| 14:40-15:30 | Anatomy LAB: Oral cavity, intraoral structures-Group B | Anatomy Lab. |
| 15:40-16:30 | Anatomy LAB: Oral cavity, intraoral structures-Group C | Anatomy Lab. |
| 16:40-17:30 | Anatomy LAB: Oral cavity, intraoral structures-Group D | Anatomy Lab. |
| 17:40-18:30 |  |  |
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| **Wednesday** | **27 October** |  |
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| 08:40-09:30 | Anatomy LAB: Esophagus, stomach, duodenum and pancreas-Group A | Anatomy Lab. |
| 09:40-10:30 | Anatomy LAB: Esophagus, stomach, duodenum and pancreas-Group B | Anatomy Lab. |
| 10:40-11:30 | Anatomy LAB: Esophagus, stomach, duodenum and pancreas-Group C | Anatomy Lab. |
| 11:40-12:30 | Anatomy LAB: Esophagus, stomach, duodenum and pancreas:Group D | Anatomy Lab. |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Thursday** | **28 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Physiology of the gastrointestinal motility | Dr. Alper Yıldırım |
| 11:40-12:30 | Heat and temperature, heat transfer in the body | Dr. Oya Orun |
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| 13:40-14:30 | **TATİL** |  |
| 14:40-15:30 |  |
| 15:40-16:30 |  |
| 16:40-17:30 |  |
| 17:40-18:30 |  |
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| **Friday** | **29 October** |  |
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| 08:40-09:30 | **29 EKİM CUMHURİYET BAYRAMI** |  |
| 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 |  |
| 17:40-18:30 |  |
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| **Week – 2 (01 November - 05 November 2021)** |
| **Monday** | **01 November** |  |
|  |  |  |
| 08:40-09:30 | Peritonum and omenta | Dr. Ümit Süleyman Şehirli |
| 09:40-10:30 | Peritonum and omenta | Dr. Ümit Süleyman Şehirli |
| 10:40-11:30 | Vessels of the abdomen | Dr. Ümit Süleyman Şehirli |
| 11:40-12:30 | Vessels of the abdomen | Dr. Ümit Süleyman Şehirli |
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| 13:40-14:30 | Temporomandibular joint, muscles of mastication | Dr. Necmettin Ömer Özdoğmuş |
| 14:40-15:30 | Temporomandibular joint, muscles of mastication | Dr. Necmettin Ömer Özdoğmuş |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective Course |  |
| 18:40-19:30 | Elective Course |  |
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| **Tuesday** | **02 November** |  |
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| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Oral digestion and deglutition | Dr. Hızır Kurtel |
| 11:40-12:30 | Oral digestion and deglutition | Dr. Hızır Kurtel |
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| 13:40-14:30 | Biochemical aspects of nutrition | Dr. Nesrin Kartal Özer |
| 14:40-15:30 | Biochemical aspects of nutrition | Dr. Nesrin Kartal Özer |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Wednesday** | **03 November** |  |
| 08:40-09:30 | Anterior abdominal wall | Dr. Necmettin Ömer Özdoğmuş |
| 09:40-10:30 | Anterior abdominal wall | Dr. Necmettin Ömer Özdoğmuş |
| 10:40-11:30 | Histology of stomach | Dr. Feriha Ercan |
| 11:40-12:30 | Histology of small and large intestine | Dr. Feriha Ercan |
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| 13:40-14:30 | Pathology of oral cavity and salivary glands | Dr. Zeliha Leyla Cinel |
| 14:40-15:30 | Pathology of esophagus | Dr. Pelin Bağcı |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Thursday** | **04 November** |  |
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| 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 |  |
|  |  |  |
| 13:40-14:30 | Anatomy LAB: Salivary glands, temporomandibular joint, muscles of mastication-Group C | Anatomy Lab. |
| 14:40-15:30 | Anatomy LAB: Salivary glands, temporomandibular joint, muscles of mastication-Group D | Anatomy Lab. |
| 15:40-16:30 | Anatomy LAB: Salivary glands, temporomandibular joint, muscles of mastication-Group A | Anatomy Lab. |
| 16:40-17:30 | Anatomy LAB: Salivary glands, temporomandibular joint, muscles of mastication-Group B | Anatomy Lab. |
| 17:40-18:30 |  |  |
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| **Friday** | **05 November** |  |
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| 08:40-09:30 | Jejunum, ileum and colon | Dr. Ümit Süleyman Şehirli |
| 09:40-10:30 | Jejunum, ileum and colon | Dr. Ümit Süleyman Şehirli |
| 10:40-11:30 | Gastric digestion | Dr. Berrak Yegen |
| 11:40-12:30 | Gastric digestion | Dr. Berrak Yegen |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Symptoms and signs of the gastrointestinal diseases | Dr. Osman Cavit Özdoğan |
| 15:40-16:30 | Symptoms and signs of the gastrointestinal diseases | Dr. Osman Cavit Özdoğan |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Week – 3 (08 November - 12 November 2021)** |
| **Monday** | **08 November** |  |
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| 08:40-09:30 | Histology LAB: Upper digestive tract-Group C | Multidisciplinary Lab. |
| 09:40-10:30 | Histology LAB: Upper digestive tract-Group C | Multidisciplinary Lab. |
| 10:40-11:30 | Histology LAB: Upper digestive tract-Group D | Multidisciplinary Lab. |
| 11:40-12:30 | Histology LAB: Upper digestive tract-Group D | Multidisciplinary Lab. |
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| 13:40-14:30 | Dyspepsia in primary care | Dr. Gülru Pemra Ünalan |
| 14:40-15:30 | Dyspepsia in primary care | Dr. Arzu Uzuner |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective Course |  |
| 18:40-19:30 | Elective Course |  |
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| **Tuesday** | **09 November** |  |
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| 08:40-09:30 | Histology LAB: Upper digestive tract-Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Histology LAB: Upper digestive tract-Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Histology LAB: Upper digestive tract-Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Histology LAB: Upper digestive tract-Group B | Multidisciplinary Lab. |
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| 13:40-14:30 | Pathology of gastritis and peptic ulcer disease | Dr. Zeliha Leyla Cinel |
| 14:40-15:30 | Neoplastic diseases of stomach | Dr. Zeliha Leyla Cinel |
| 15:40-16:30 | Approach to upper gastrointestinal disorders | Dr. Yeşim Özen Alahdab |
| 16:40-17:30 | Approach to upper gastrointestinal disorders | Dr. Yeşim Özen Alahdab |
| 17:40-18:30 |  |  |
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| **Wednesday** | **10 November** |  |
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| 08:40-09:30 |  |  |
| 09:40-10:30 | **10 KASIM ATATÜRK'Ü ANMA TÖRENİ** |  |
| 10:40-11:30 | Physiological functions of vitamins | Dr. Özgür Kasımay Çakır |
| 11:40-12:30 | Rectum and anal canal | Dr. Ümit Süleyman Şehirli |
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| 13:40-14:30 | Anatomy LAB: Small and large intestine, rectum and anal canal-Group A | Anatomy Lab. |
| 14:40-15:30 | Anatomy LAB: Small and large intestine, rectum and anal canal-Group B | Anatomy Lab. |
| 15:40-16:30 | Anatomy LAB: Small and large intestine, rectum and anal canal-Group C | Anatomy Lab. |
| 16:40-17:30 | Anatomy LAB: Small and large intestine, rectum and anal canal-Group D | Anatomy Lab. |
| 17:40-18:30 |  |  |
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| **Thursday** | **11 November** |  |
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| 08:40-09:30 | Liver,biliary and portal system | Dr. Ümit Süleyman Şehirli |
| 09:40-10:30 | Liver,biliary and portal system | Dr. Ümit Süleyman Şehirli |
| 10:40-11:30 | Histology of the liver and portal system | Dr. Serap Şirvancı |
| 11:40-12:30 | Histology of pancreas | Dr. Serap Şirvancı |
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| 13:40-14:30 | Exocrine functions of pancreas | Dr. Hızır Kurtel |
| 14:40-15:30 | Exocrine functions of pancreas | Dr. Hızır Kurtel |
| 15:40-16:30 | Metabolism of carbohydrates | Dr. Goncagül Haklar |
| 16:40-17:30 | Metabolism of carbohydrates | Dr. Goncagül Haklar |
| 17:40-18:30 |  |  |
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| **Friday** | **12 November** |  |
| 08:40-09:30 | Anatomy LAB: Anterior abdominal wall, inguinal canal-Group A | Anatomy Lab. |
| 09:40-10:30 | Anatomy LAB: Anterior abdominal wall, inguinal canal-Group B | Anatomy Lab. |
| 10:40-11:30 | Anatomy LAB: Anterior abdominal wall, inguinal canal-Group C | Anatomy Lab. |
| 11:40-12:30 | Anatomy LAB: Anterior abdominal wall, inguinal canal-Group D | Anatomy Lab. |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Metabolism of carbohydrates | Dr. Goncagül Haklar |
| 15:40-16:30 | Metabolism of carbohydrates | Dr. Goncagül Haklar |
| 16:40-17:30 | Food poisoning | Dr. Nurver Ülger |
| 17:40-18:30 |  |  |
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| **Week – 4 (15 November - 19 November 2021)** |
| **Monday** | **15 November** |  |
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| 08:40-09:30 | The role of bile in digestion | Dr. Hızır Kurtel |
| 09:40-10:30 | The role of bile in digestion | Dr. Hızır Kurtel |
| 10:40-11:30 | Liver injury, regeneration and fibrogenesis | Dr. Çiğdem Ataizi Çelikel |
| 11:40-12:30 | Liver injury, regeneration and fibrogenesis | Dr. Çiğdem Ataizi Çelikel |
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| 13:40-14:30 | Development of the digestive system | Dr. Şule Çetinel |
| 14:40-15:30 | Development of the digestive system | Dr. Şule Çetinel |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective Course |  |
| 18:40-19:30 | Elective Course |  |
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| **Tuesday** | **16 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Digestion of nitrogenous compounds, carbohydrates and fat | Dr. Önder Şirikçi |
| 11:40-12:30 | Digestion of nitrogenous compounds, carbohydrates and fat | Dr. Önder Şirikçi |
|  |  |  |
| 13:40-14:30 | Anatomy LAB: Liver, biliary and portal system-Group A | Anatomy Lab. |
| 14:40-15:30 | Anatomy LAB: Liver, biliary and portal system-Group B | Anatomy Lab. |
| 15:40-16:30 | Anatomy LAB: Liver, biliary and portal system-Group A | Anatomy Lab. |
| 16:40-17:30 | Anatomy LAB: Liver, biliary and portal system-Group B | Anatomy Lab. |
| 17:40-18:30 |  |  |
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| **Wednesday** | **17 November** |  |
| 08:40-09:30 | Detoxification mechanisms | Dr. Betül Karademir |
| 09:40-10:30 | Digestion in the small and large intestine | Dr. Hızır Kurtel |
| 10:40-11:30 | Transport of digested compounds | Dr. Önder Şirikçi |
| 11:40-12:30 | Transport of digested compounds | Dr. Önder Şirikçi |
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| 13:40-14:30 | Histology LAB: Lower digestive tract-Group C | Multidisciplinary Lab. |
| 14:40-15:30 | Histology LAB: Lower digestive tract-Group C | Multidisciplinary Lab. |
| 15:40-16:30 | Histology LAB: Lower digestive tract-Group D | Multidisciplinary Lab. |
| 16:40-17:30 | Histology LAB: Lower digestive tract-Group D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Thursday** | **18 November** |  |
|  |  |  |
| 08:40-09:30 | Histology LAB: Lower digestive tract-Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Histology LAB: Lower digestive tract-Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Histology LAB: Lower digestive tract-Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Histology LAB: Lower digestive tract-Group B | Multidisciplinary Lab. |
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| 13:40-14:30 | Gastrointestinal absorption | Dr. Özgür Kasımay Çakır |
| 14:40-15:30 | Gastrointestinal absorption | Dr. Özgür Kasımay Çakır |
| 15:40-16:30 | Liver function tests | Dr. Goncagül Haklar |
| 16:40-17:30 | Liver function tests | Dr. Goncagül Haklar |
| 17:40-18:30 |  |  |
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| **Friday** | **19 November** |  |
|  |  |  |
| 08:40-09:30 | Pathology of exocrine pancreas, gall bladder and extrahepatic biliary tract | Dr. Pelin Bağcı |
| 09:40-10:30 | Pathology of exocrine pancreas, gall bladder and extrahepatic biliary tract | Dr. Pelin Bağcı |
| 10:40-11:30 | Functions of the large intestine | Dr. Hızır Kurtel |
| 11:40-12:30 | Functions of the large intestine | Dr. Hızır Kurtel |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Metabolism of nucleotides | Dr. Goncagül Haklar |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Week – 5 (22 November - 26 November 2021)** |
| **Monday** | **22 November** |  |
| 08:40-09:30 | Viral hepatitis | Dr. Osman Cavit Özdoğan |
| 09:40-10:30 | Viral hepatitis | Dr. Osman Cavit Özdoğan |
| 10:40-11:30 | Proteins in the diet and nitrogen metabolism | Dr. Önder Şirikçi |
| 11:40-12:30 | Proteins in the diet and nitrogen metabolism | Dr. Önder Şirikçi |
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| 13:40-14:30 | PBL-1 Study time |  |
| 14:40-15:30 | PBL-1 |  |
| 15:40-16:30 | PBL-1 |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective Course |  |
| 18:40-19:30 | Elective Course |  |
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| **Tuesday** | **23 November** |  |
| 08:40-09:30 | Morphologic patterns of liver injury; viral hepatitis and autoimmune hepatitis | Dr. Çiğdem Ataizi Çelikel |
| 09:40-10:30 | Pathology of cholestatic disorders | Dr. Çiğdem Ataizi Çelikel |
| 10:40-11:30 | Regulation of temperature in the body, temperature transducers and thermography | Dr. Cevdet Nacar |
| 11:40-12:30 | Heat and cold | Dr. Cevdet Nacar |
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| 13:40-14:30 | Gastric, intestinal and pancreatic function tests | Dr. Saime Batırel |
| 14:40-15:30 | Gastric, intestinal and pancreatic function tests | Dr. Saime Batırel |
| 15:40-16:30 | Viral gastroenteritis | Dr. Zeynep Arzu İlki |
| 16:40-17:30 | Metabolism of aminoacids | Dr. Önder Şirikçi |
| 17:40-18:30 |  |  |
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| **Wednesday** | **24 November** |  |
| 08:40-09:30 | Pharmacotherapy of gastrointestinal motility disorders | Dr. Ahmet Akıcı |
| 09:40-10:30 | Pharmacotherapy of gastrointestinal motility disorders | Dr. Ahmet Akıcı |
| 10:40-11:30 | Approach to disease of pancreas | Dr. Yusuf Yılmaz |
| 11:40-12:30 | Approach to disease of pancreas | Dr. Yusuf Yılmaz |
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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 |  |  |
| 17:40-18:30 |  |  |
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| **Thursday** | **25 November** |  |
| 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 |  ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
| 14:40-15:30 |  ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
| 15:40-16:30 |  ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
| 16:40-17:30 |  ICP-3: Basic Medical Practice-Clinical Skills-Students Research Activity-3 |  |
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| **Friday** | **26 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Infections due to Salmonella, Shigella and Yersinia | Dr. Nurver Ülger |
| 10:40-11:30 | Infections due to intestinal protozoa | Dr. Nurver Ülger |
| 11:40-12:30 | Pharmacotherapy in peptic ulcer disease | Dr. Mert Kaşkal |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Gastrointestinal system infections due to Escherichia coli | Dr. Ayşegül Karahasan |
| 15:40-16:30 | Infections due to vibrio cholerae and campylobacter species | Dr. Ayşegül Karahasan |
| 16:40-17:30 | Hepatobiliary scintigraphy | Dr. Halil Turgut Turoğlu |
| 17:40-18:30 |  |  |
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| **Week – 6 (29 November - 03 December 2021)** |
| **Monday** | **29 November** |  |
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| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Mass lesions of the liver | Dr. Çiğdem Ataizi Çelikel |
| 11:40-12:30 | Mass lesions of the liver | Dr. Çiğdem Ataizi Çelikel |
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| 13:40-14:30 | PBL Study time |  |
| 14:40-15:30 | PBL-3 |  |
| 15:40-16:30 | PBL-3 |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective Course |  |
| 18:40-19:30 | Elective Course |  |
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| **Tuesday** | **30 November** |  |
| 08:40-09:30 | **Histology LAB**:Liver,pancreas and salivary glands-Group A / **Anatomy LAB:** Vessels of the abdomen - Group B | Multidisciplinary Lab./ Anatomy Lab. |
| 09:40-10:30 | **Histology LAB:**Liver,pancreas and salivary glands-Group A / **Anatomy LAB:**Peritonum and Omenta-Group B | Multidisciplinary Lab./ Anatomy Lab. |
| 10:40-11:30 | **Histology LAB**:Liver,pancreas and salivary glands-Group B / **Anatomy LAB:** Vessels of the abdomen - Group A | Multidisciplinary Lab./ Anatomy Lab. |
| 11:40-12:30 | **Histology LAB:**Liver,pancreas and salivary glands-Group B / **Anatomy LAB:**Peritonum and Omenta-Group A | Multidisciplinary Lab./ Anatomy Lab. |
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| 13:40-14:30 | **Histology LAB:**Liver,pancreas and salivary glands-Group C / **Anatomy LAB:** Vessels of the abdomen - Group D | Multidisciplinary Lab. / Anatomy Lab. |
| 14:40-15:30 | **Histology LAB**:Liver,pancreas and salivary glands-Group C / **Anatomy LAB**:Peritonum and Omenta-Group D | Multidisciplinary Lab./ Anatomy Lab. |
| 15:40-16:30 | **Histology LAB:**Liver,pancreas and salivary glands-Group D / **Anatomy LAB**: Vessels of the abdomen - Group C | Multidisciplinary Lab./ Anatomy Lab. |
| 16:40-17:30 | **Histology LAB:**Liver,pancreas and salivary glands-Group D / **Anatomy LAB**:Peritonum and Omenta-Group C | Multidisciplinary Lab./ Anatomy Lab. |
| 17:40-18:30 |  |  |
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| **Wednesday** | **01 December** |  |
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| 08:40-09:30 | Metabolism of inorganic compounds | Dr. Betül Karademir |
| 09:40-10:30 | Malabsorption syndromes, vascular disorders and diverticular disease | Dr. Çiğdem Ataizi Çelikel |
| 10:40-11:30 | Inflammatory bowel disease | Dr. Çiğdem Ataizi Çelikel |
| 11:40-12:30 | Epidemiology of food and waterborne disease | Dr. Ayşe Gülsen Teker |
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| 13:40-14:30 | Epidemiology of zoonotic disease | Dr. Ayşe Gülsen Teker |
| 14:40-15:30 | **PBL Study time** |  |
| 15:40-16:30 | **PBL-4** | **ONLINE** |
| 16:40-17:30 | **PBL-4** | **ONLINE** |
| 17:40-18:30 | Porphyrins and bile pigments | Dr. Önder Şirikçi - **ONLINE** |
| 18:40-19:30 | Porphyrins and bile pigments | Dr. Önder Şirikçi- **ONLINE** |
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| **Thursday** | **02 December** |  |
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| 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 | Autoimmun diseases of liver | Dr. Yeşim Özen Alahdab |
| 14:40-15:30 | Abdominal pain | Dr. Yeşim Özen Alahdab |
| 15:40-16:30 | Other viral and infectious diseases of the liver | Dr. Emine Bozkurtlar |
| 16:40-17:30 | Fatty Liver Disease: Alcoholic and Non Alcoholic | Dr. Emine Bozkurtlar |
| 17:40-18:30 |  |  |
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| **Friday** | **03 December** |  |
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| 08:40-09:30 | Biochemistry LAB: Transamination I A | Multidisciplinary Lab. |
| 09:40-10:30 | Biochemistry LAB: Transamination II A | Multidisciplinary Lab. |
| 10:40-11:30 | Biochemistry LAB: Transamination III A | Multidisciplinary Lab. |
| 11:40-12:30 | Biochemistry LAB: Transamination IV A | Multidisciplinary Lab. |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Liver failure; epidemiology and etiology | Dr. Osman Cavit Özdoğan |
| 15:40-16:30 | Metabolic diseases of liver | Dr. Osman Cavit Özdoğan |
| 16:40-17:30 | Gallstone disease, diseases of the biliary tract | Dr. Osman Cavit Özdoğan |
| 17:40-18:30 |  |  |
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| **Week – 7 (06 December - 10 December 2021)** |
| **Monday** | **06 December** |  |
| 08:40-09:30 | Gastroenteritis/dehydration and oral rehydration | Dr. Deniz Ertem |
| 09:40-10:30 | Malabsorption and maldigestion in children | Dr. Deniz Ertem |
| 10:40-11:30 | Nutritional assessment: Degree of malnutrition | Dr. Deniz Ertem |
| 11:40-12:30 | Inherited metabolic disorders of the liver | Dr. Çiğdem Ataizi Çelikel |
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| 13:40-14:30 | Alcoholic and non-alcoholic liver disease | Dr. Yusuf Yılmaz |
| 14:40-15:30 | Malabsorption, maldigestion | Dr. Yusuf Yılmaz |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective Course |  |
| 18:40-19:30 | Elective Course |  |
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| **Tuesday** | **07 December** |  |
| 08:40-09:30 | Pathology LAB: Pathology of liver and gallbladder-Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Pathology LAB: Pathology of liver and gallbladder-Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Pathology LAB: Pathology of liver and gallbladder-Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Pathology LAB: Pathology of liver and gallbladder-Group B | Multidisciplinary Lab. |
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| 13:40-14:30 | Pathology LAB: Pathology of liver and gallbladder-Group A | Multidisciplinary Lab. |
| 14:40-15:30 | Pathology LAB: Pathology of liver and gallbladder-Group B | Multidisciplinary Lab. |
| 15:40-16:30 | Pathology LAB: Pathology of liver and gallbladder-Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Pathology LAB: Pathology of liver and gallbladder-Group A | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Wednesday** | **08 December** |  |
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| 08:40-09:30 | Epidemiology and laboratory diagnosis of viral hepatitis | Dr. Ufuk Hasdemir |
| 09:40-10:30 | Epidemiology and laboratory diagnosis of viral hepatitis | Dr. Ufuk Hasdemir |
| 10:40-11:30 | Metabolism and energy balance | Dr. Alper Yıldırım |
| 11:40-12:30 | Food additives | Dr. Nimet Emel Lüleci |
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| 13:40-14:30 | Mushroom and insecticide poisoning | Dr. Zafer Gören |
| 14:40-15:30 | Pharmacotherapy in hepatic disorders and the influence of liver function on drug disposition | Dr. Hasan Raci Yananlı |
| 15:40-16:30 | Approach to gastrointestinal bleeding | Dr. Feyza Gündüz |
| 16:40-17:30 | Jaundice | Dr. Feyza Gündüz |
| 17:40-18:30 |  |  |
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| **Thursday** | **09 December** |  |
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| 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 | Tumors of the small, large intestine and appendix | Dr. Çiğdem Ataizi Çelikel |
| 14:40-15:30 | Infectious enterocolitis | Dr. Pelin Bağcı |
| 15:40-16:30 | Inflammatory bowel disease | Dr. Özlen Atuğ |
| 16:40-17:30 | Inflammatory bowel disease | Dr. Özlen Atuğ |
| 17:40-18:30 |  |  |
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| **Friday** | **10 December** |  |
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| 08:40-09:30 | Biochemistry LAB: Transamination I B | Multidisciplinary Lab. |
| 09:40-10:30 | Biochemistry LAB: Transamination II B | Multidisciplinary Lab. |
| 10:40-11:30 | Biochemistry LAB: Transamination III B | Multidisciplinary Lab. |
| 11:40-12:30 | Biochemistry LAB: Transamination IV B | Multidisciplinary Lab. |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Helminth infections and echinococcosis | Dr. Ayşegül Karahasan (UZEM) |
| 15:40-16:30 | Microbiological approach to the patient with diarrhea | Dr. Ayşegül Karahasan(UZEM) |
| 16:40-17:30 | Genetics of gastrointestinal disorders | Dr. Ahmet Arman (UZEM) |
| 17:40-18:30 | Drug and toxin induced liver diseases | Dr.Emine Bozkurtlar (UZEM) |
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| **Week – 8 (13 December - 17 December 2021)** |
| **Monday** | **13 December** |  |
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| 08:40-09:30 | Biochemistry LAB: Transamination I C | Multidisciplinary Lab. |
| 09:40-10:30 | Biochemistry LAB: Transamination II C | Multidisciplinary Lab. |
| 10:40-11:30 | Biochemistry LAB: Transamination III C | Multidisciplinary Lab. |
| 11:40-12:30 | Biochemistry LAB: Transamination IV C | Multidisciplinary Lab. |
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| 13:40-14:30 | Cirrhosis; diagnosis, staging and portal hypertension | Dr. Osman Cavit Özdoğan |
| 14:40-15:30 | Cirrhosis; complications, treatment and liver transplantation | Dr. Osman Cavit Özdoğan |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective Course |  |
| 18:40-19:30 | Elective Course |  |
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| **Tuesday** | **14 December** |  |
| 08:40-09:30 | Pathology LAB: Upper GI tract pathology-Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Pathology LAB: Upper GI tract pathology-Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Pathology LAB: Upper GI tract pathology-Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Pathology LAB: Upper GI tract pathology-Group B | Multidisciplinary Lab. |
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| 13:40-14:30 | Pathology LAB: Upper GI tract pathology-Group C | Multidisciplinary Lab. |
| 14:40-15:30 | Pathology LAB: Upper GI tract pathology-Group C | Multidisciplinary Lab. |
| 15:40-16:30 | Pathology LAB: Upper GI tract pathology-Group D | Multidisciplinary Lab. |
| 16:40-17:30 | Pathology LAB: Upper GI tract pathology-Group D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Wednesday** | **15 December** |  |
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| 08:40-09:30 | Microbiology LAB: Laboratory Diagnosis of GIS Infections - Group C | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Laboratory Diagnosis of GIS Infections - Group C | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB: Laboratory Diagnosis of GIS Infections - Group D | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB: Laboratory Diagnosis of GIS Infections - Group D | Multidisciplinary Lab. |
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| 13:40-14:30 | Biochemistry LAB: Transamination I D | Multidisciplinary Lab. |
| 14:40-15:30 | Biochemistry LAB: Transamination II D | Multidisciplinary Lab. |
| 15:40-16:30 | Biochemistry LAB: Transamination III D | Multidisciplinary Lab. |
| 16:40-17:30 | Biochemistry LAB: Transamination IV D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Thursday** | **16 December** |  |
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| 08:40-09:30 | Pathology LAB: Lower GI tract pathology-Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Pathology LAB: Lower GI tract pathology-Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Pathology LAB: Lower GI tract pathology-Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Pathology LAB: Lower GI tract pathology-Group B | Multidisciplinary Lab. |
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| 13:40-14:30 | Pathology LAB: Lower GI tract pathology-Group C | Multidisciplinary Lab. |
| 14:40-15:30 | Pathology LAB: Lower GI tract pathology-Group C | Multidisciplinary Lab. |
| 15:40-16:30 | Pathology LAB: Lower GI tract pathology-Group D | Multidisciplinary Lab. |
| 16:40-17:30 | Pathology LAB: Lower GI tract pathology-Group D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Friday** | **17 December** |  |
| 08:40-09:30 | Microbiology LAB: Laboratory Diagnosis of GIS Infections - Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Laboratory Diagnosis of GIS Infections - Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB: Laboratory Diagnosis of GIS Infections - Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB: Laboratory Diagnosis of GIS Infections - Group B | Multidisciplinary Lab. |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Radiology of the gastrointestinal tract | Dr. Rabia Ergelen (UZEM) |
| 15:40-16:30 | Radiology of the gastrointestinal tract | Dr. Rabia Ergelen (UZEM) |
| 16:40-17:30 | Acute abdominal pain in children | Dr. Kıvılcım Karadeniz Cerit (UZEM) |
| 17:40-18:30 | Acute abdominal pain | Dr. Ömer Günal (UZEM) |
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| **Week – 9 (20 December - 24 December 2021)** |
| **Monday** | **20 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| **Tuesday** | **21 December** |  |
| 08:40-09:30 |  |  |
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| **Wednesday** | **22 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| **Thursday** | **23 December** |  |
| 08:40-09:30 | **Y3C2 THEORETICAL EXAM** |  |
| 09:40-10:30 |  |
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| 13:40-14:30 |  |
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| **Friday** | **24 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
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| 17:40-18:30 |  |  |