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| **C:\Users\Namariel\Downloads\TıpF (1)\TıpF\TıpF-2.png**  **MARMARA UNIVERSITY SCHOOL of MEDICINE** | | | |
| CELL AND TISSUE INJURY - I  YEAR 2 COURSE 1  September 04 – October 13, 2023 | | | |
| **Coordinator of the Course 2.1**  Prof. Pelin BAĞCI | | | |
| **Year 2 Coordinators**  Prof. Özgür KASIMAY & Assoc. Prof. M.Burak AKSU | | | |
| **Module Coordinator**  Prof. Rezzan GÜLHAN, Assist.Prof. Sinem YILDIZ İNANICI | | **Introduction to Clinical Practice (ICP) Coordinators**  Prof. Pemra CÖBEK ÜNALAN & Prof. Serap ÇİFÇİLİ | |
| **Coordinator of Multidisciplinary Students’ Lab**.  Prof. Betül YILMAZ | | **Coordinator of Clinical Skills Lab.**  Prof. Çiğdem APAYDIN KAYA | |
| **Coordinator of Assessment Unite**  Assoc. 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. Tunç ÖNEŞ | |
| **Vice Dean (Education)**  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 / COMPETENCIES   * Clinical Care: Qualified patient care and community oriented health care * Basic clinical skills * The organization and management of the patient and the patient care * The organization and the management of health care delivery services / system * Health promotion and disease prevention * Medical Knowledge and Evidence-Based Medicine * Appropriate information retrieval and management skills * The integration of knowledge, critical thinking and evidence-based decision making * Scientific methods and basic research skills * Professional Attitudes and Values * Communication skills and effective communication with patients / patient relatives * Interpersonal relationships and team working * Ethical and professional values, responsibilities * Individual, social and cultural values and responsibilities * Reflective practice and continuing development * Healthcare delivery systems, management and community oriented health care * Education and counseling |
| PHASE-1 LEARNING OBJECTIVES   * Understanding the normal structures and functions of human body * Correlating the basic concepts and principles to each other that define health and disease; applying basic concepts and principles to health and disease conditions * Developing clinical problem solving, clinical reasoning and evaluation skills by integrating biomedical, clinical, social and humanities knowledge * Gaining basic clinical skills by applications in simulated settings. * Awareness of the professional values in health and disease processes (professional, individual, societal) and acquisition necessary related skills * Evaluating critically and synthesizing all the medical evidence and perform respecting scientific, professional and ethical values * 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 |

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| CELL AND TISSUE INJURY - I | |
| AIM and LEARNING OBJECTIVES of COURSE  **Aim:** At the end of this course, second year students will be able to broaden their basic science knowledge to include the understanding of how certain alterations in bodily processes may manifest as disease and gain fundamental knowledge about the processes underlying human diseases, as the scientific foundation for developing clinical skills.  **Learning Objectives:** At the end of this course, second year students will,   * describe using proper nomenclature, the etiology, pathogenesis, structural and functional changes at cellular and tissue level; * describe in detail what happens to cells and tissues in response to abnormal stimuli; * explain the basic principles of human immune system as it relates to defense against disease (innate, humoral, cell mediated); * describe the principles of classifying infectious microorganisms and their pathogenic properties; * gain knowledge about viruses and viral pathogenesis; * gain knowledge about parasites and pathogenesis of parasitic diseases; * identify major drug classes and prototype drug(s) for each class. | |
| **ASSESSMENT SYSTEM**  Module examination: Written exam at the end of module (10 % of final score)  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 performed both orally and by using structured evaluation forms |
| DEPARTMENTS PARTICIPATING IN COURSE-2.1 | |
| * Biochemistry * Biophysics * Family Medicine * Immunology * Medical Genetics | * Microbiology * Nuclear Medicine * Pathology * Pharmacology * Physiology |

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| LECTURERS / TUTORS | |
| Tunç AKKOÇ, Professor of Immunology  Mehmet Burak AKSU, Assoc. Professor of Microbiology  Ahmet ARMAN, Professor of Medical Genetics  Zehra Nur TURGAN AŞIK, Lecturer of Pharmacology  Pınar ATA, Professor of Medical Genetics  Çiğdem ATAİZİ ÇELİKEL, Professor of Pathology  Banu AYDIN OMAY, Assoc. Professor of Biophysics  Süheyla BOZKURT, Professor of Pathology  Hülya CABADAK, Professor of Biophysics  Saliha Serap ÇİFÇİLİ, Professor of Family Medicine  İpek ERBARUT, Assoc. Professor of Pathology  Zafer GÖREN, Professor of Pharmacology  Medine GÜLÇEBİ İDRİZOĞLU, Assoc. Professor of Pharmacology  Rezzan GÜLHAN, Professor of Pharmacology  Ahmet İlter GÜNEY, Professor of Medical Genetics  Goncagül HAKLAR, Professor of Biochemistry  Ufuk HASDEMİR, Professor of Microbiology | Zeynep Arzu İLKİ, Professor of Microbiology  Ayşegül KARAHASAN, Professor of Microbiology  Tuğba Eryiğit KARAMAHMUTOĞLU, Assist. Professor of Pharmacology  Mert KAŞKAL, Lecturer of Pharmacology  Salih ÖZGÜVEN, Assoc. Professor of Nuclear Medicine  Handan KAYA, Professor of Pathology  Hızır KURTEL, Professor of Physiology  Pınar MEGA TİBER, Professor of Biophysics  Oya ORUN, Professor of Biophysics  Erdi SÖZEN, Assoc. Professor of Biochemistry  Hasan TOPER, Assist. Professor of Pathology  Halil Turgut TUROĞLU, Professor of Nuclear Medicine  Nurver ÜLGER, Professor of Microbiology  Gülru Pemra CÖBELEK ÜNALAN, Professor of Family Medicine  Hasan Raci YANANLI, Professor of Pharmacology  Alper YILDIRIM, Professor of Physiology |
| LABORATORY TUTORS  MICROBIOLOGY: M.U.Hasdemir, A.Karahasan, N.Ulger, Z.A.İlki, M.B.Aksu, E.Sayın  PATHOLOGY: H.Toper | |
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| READING / STUDYING MATERIALS   * Basics and Clinical Pharmacology (Bertram G Katzung). * Clinical Pharmacology (Laurence DR, Bennet PN). * Pharmacological Basis of Therapeutics (Goddman & Gilman’s). * Radiation protection, Ch.5 (Mary Alice Statkiewicz) * Radiobiology for the radiologist (Eric J.Hall) * Physics of Life Sciences (Alan H.Cromer) * Clinical Biophysics (Anbar) * Radiologic Science for Technologist (S.C.Bushong) * Textbook of Physiology (Guyton AC). * Basic Pathology (Stanley L. Robbins, Marcia Angel, Vinay Kumar). * Histology and Cell Biology: an Introduction to Pathology (Abraham L. Kierszenbaum). * Review Medical Microbiology (Ernest Jawetz et al.). * Medical Microbiology (Cedric Mims et al.). * Review of Medical Microbiology (Patric R. Murray, Ken S. Rosenthal). * Cellular and Molecular Immunology 5th Edition (Abbas, Lichtman). * Kuby Immunology 4th Edition (Goldsby, Kindt, Osborne). * Immunobiology 6th Edition (Janeway, Travers, Walport, Schlomchik). * Immunology, Infection and Immunity (Pier, Lyczak, Wetzler) | |

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| SUMMARY OF THE COURSE | | | |
| **Discipline** | **Lecture & Group Discussion** | **Multidisciplinary Lab. & Clinical Skills Lab. Practice** | Total |
| Biochemistry | 4 |  | 4 |
| Biophysics | 12 |  | 12 |
| Family Medicine | 2 |  | 2 |
| Immunology | 12 |  | 12 |
| Microbiology | 25 | 8 | 33 |
| Nuclear Medicine | 2 |  | 2 |
| Pathology | 17 | 4 | 21 |
| Pharmacology | 17 |  | 17 |
| Physiology | 5 |  | 5 |
| Medical Genetics | 7 |  | 7 |
| **SUBTOTAL** | 103 | 12 | 115 |
| ICP-2: Basic Clinical Skills, Human in Medicine, Students Research Activity | 16 | 16 | 32 |
| **TOTAL** | **119** | **28** | **147** |

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| **SIX WEEK PROGRAM** | | |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week-1 (04 September - 08 September 2023)** | | |
| **Monday** | **04 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Introduction to the course and opening lecture | Dr. Rezzan Gülhan |
| 10:40-11:30 | Introduction to pharmacology | Dr. Rezzan Gülhan |
| 11:40-12:30 | Molecular mechanisms of necrosis and apoptosis | Dr. Ahmet Arman |
|  |  |  |
| 13:40-14:30 | Eicosanoids and related compounds | Dr. Erdi Sözen |
| 14:40-15:30 | Eicosanoids and related compounds | Dr. Erdi Sözen |
| 15:40-16:30 | Introduction to pathology | Dr. Süheyla Bozkurt |
| 16:40-17:30 |  |  |
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| **Tuesday** | **05 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Introduction to innate immune system | Dr. Tunç Akkoç |
| 10:40-11:30 | General pharmacokinetic principles-1--Absorption of drugs | Dr. Rezzan Gülhan |
| 11:40-12:30 | General pharmacokinetic principles-2--Distribution of drugs | Dr. Rezzan Gülhan |
|  |  |  |
| 13:40-14:30 | Cell injury and cell death | Dr. Handan Kaya |
| 14:40-15:30 | Cell injury and cell death | Dr. Handan Kaya |
| 15:40-16:30 | Cellular aging and death | Dr. Pınar Ata |
| 16:40-17:30 |  |  |
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| **Wednesday** | **06 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Adaptive cell reactions and abnormal accumulations | Dr. İpek Erbarut |
| 10:40-11:30 | General pharmacokinetic principles-3--Metabolism and elimination of drugs | Dr. Rezzan Gülhan |
| 11:40-12:30 | General pharmacokinetic principles-4--Kinetics of drug movement in body | Dr. Rezzan Gülhan |
|  |  |  |
| 13:40-14:30 | Molecular and radiobiological behavior | Dr. Hülya Cabadak |
| 14:40-15:30 | Effects of ionizing radiation on the cell and organism | Dr. Hülya Cabadak |
| 15:40-16:30 | Microbiology of water, milk and air | Dr. Mehmet Burak Aksu |
| 16:40-17:30 |  |  |
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| **Thursday** | **07 September** |  |
| 08:40-09:30 | Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions | Dr. Tunç Akkoç |
| 09:40-10:30 | Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions | Dr. Tunç Akkoç |
| 10:40-11:30 |  |  |
| 11:40-12:30 | Human microbiota | Dr. Mehmet Burak Aksu |
|  |  |  |
| 13:40-14:30 | Signal transduction of inflammation | Dr. Ahmet Arman |
| 14:40-15:30 | Host parasite interactions | Dr. Mehmet Burak Aksu |
| 15:40-16:30 | Host parasite interactions | Dr. Mehmet Burak Aksu |
| 16:40-17:30 |  |  |
| **Friday** | **08 September** |  |
| 08:40-09:30 | Acute inflammatory response | Dr. Hasan Toper |
| 09:40-10:30 | Acute inflammatory response | Dr. Hasan Toper |
| 10:40-11:30 | Mechanism of drug action | Dr. Zafer Gören |
| 11:40-12:30 | Mechanism of drug action | Dr. Zafer Gören |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Major histocompatibility complex (MHC) molecules, antigen processing and presentation | Dr. Tunç Akkoç |
| 15:40-16:30 | Basic principles of drug toxicity | Dr. Hasan Raci Yananlı |
| 16:40-17:30 |  |  |
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| **Week-2 (11 September - 15 September 2023)** | | |
| **Monday** | **11 September** |  |
| 08:40-09:30 | Structure and function of complement system | Dr. Tunç Akkoç |
| 09:40-10:30 | Radioactivity: the decay law; physical half-life, biological halflife | Dr. Oya Orun |
| 10:40-11:30 | Radioactivity: the decay law; physical half-life, biological halflife | Dr. Oya Orun |
| 11:40-12:30 | Antiseptics and disenfectants | Dr. Tuğba Eryiğit Karamahmutoğlu |
|  |  |  |
| 13:40-14:30 | Microbial pathogenicity and virulence | Dr. Arzu Akşit İlki |
| 14:40-15:30 | Introduction to ICP-2 | Dr. Pemra Cöbek Ünalan |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Tuesday** | **12 September** |  |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 11:40-12:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 15:40-16:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 16:40-17:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 17:40-18:30 |  |  |
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| **Wednesday** | **13 September** |  |
| 08:40-09:30 | Types of radiation | Dr. Oya Orun |
| 09:40-10:30 | Types of radiation | Dr. Oya Orun |
| 10:40-11:30 | Interaction of radiation with matter | Dr. Pınar Mega Tiber |
| 11:40-12:30 | Interaction of radiation with matter | Dr. Pınar Mega Tiber |
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| 13:40-14:30 | Autocoids | Dr. Zafer Gören |
| 14:40-15:30 | Autocoids | Dr. Zafer Gören |
| 15:40-16:30 | Autocoids | Dr. Zafer Gören |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Thursday** | **14 September** |  |
| 08:40-09:30 | Introduction to chemotherapeutics | Dr. Tuğba Eryiğit Karamahmutoğlu |
| 09:40-10:30 | Pharmacogenetics | Dr. Ahmet İlter Güney |
| 10:40-11:30 | Pharmacogenetics | Dr. Ahmet İlter Güney |
| 11:40-12:30 | Electromagnetic spectrum | Dr. Oya Orun |
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| 13:40-14:30 | Mechanism of viral pathogenesis | Dr. Ufuk Hasdemir |
| 14:40-15:30 | DNA viruses: Herpes viruses | Dr. Ufuk Hasdemir |
| 15:40-16:30 | Tissue and organ response to radiation and genetic effects of radiation | Dr. Salih Özgüven |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Friday** | **15 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Immunogenetics of transplantation | Dr. Pınar Ata |
| 10:40-11:30 | Immunogenetics of transplantation | Dr. Pınar Ata |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses | Dr. Ufuk Hasdemir |
| 15:40-16:30 | RNA viruses: Retroviruses and HIV | Dr. Ufuk Hasdemir |
| 16:40-17:30 | Dosimetry, basic concepts | Dr. Oya Orun |
| 17:40-18:30 |  |  |
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| **Week-3 (18 September - 22 September 2023)** | | |
| **Monday** | **18 September** |  |
| 08:40-09:30 | Cytokines | Dr. Tunç Akkoç |
| 09:40-10:30 | Cytokines | Dr. Tunç Akkoç |
| 10:40-11:30 | Tissue renewal and repair: regeneration, healing and fibrosis | Dr. Hasan Toper |
| 11:40-12:30 | Cultivation and identification of bacteria | Dr. Arzu Akşit İlki |
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| 13:40-14:30 | Pathogenesis of parasitic disease | Dr. Nurver Ülger |
| 14:40-15:30 | Pathology of hypersensitivity reactions | Dr. Süheyla Bozkurt |
| 15:40-16:30 | Pathology of autoimmune disorders | Dr. Süheyla Bozkurt |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Tuesday** | **19 September** |  |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 11:40-12:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 15:40-16:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 16:40-17:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 17:40-18:30 |  |  |
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| **Wednesday** | **20 September** |  |
| 08:40-09:30 | Bridging innate and adaptive immunity dendritic cells, NK cells, NKT cells and other innate-like T and B lineages | Dr. Tunç Akkoç |
| 09:40-10:30 | Blood and tissue protozoa | Dr. Nurver Ülger |
| 10:40-11:30 | Basic principles of immunopathology | Dr. Süheyla Bozkurt |
| 11:40-12:30 | Hepatitis viruses | Dr. Ufuk Hasdemir |
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| 13:40-14:30 | Microbiology LAB: Human microbiota-A | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Human microbiota-A | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Human microbiota-B | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Human microbiota-B | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Thursday** | **21 September** |  |
| 08:40-09:30 | Intestinal and urogenital protozoa | Dr. Nurver Ülger |
| 09:40-10:30 | Effects of the electromagnetic waves on human health | Dr. Banu Aydın Omay |
| 10:40-11:30 | Microbial toxins | Dr. Mehmet Burak Aksu |
| 11:40-12:30 | Miscellaneous viruses: Coronavirus, Flavivirus, Calicivirus | Dr. Mehmet Burak Aksu |
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| 13:40-14:30 | Microbiology LAB: Human microbiota-B | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Human microbiota-B | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Human microbiota-A | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Human microbiota-A | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Friday** | **22 September** |  |
| 08:40-09:30 | Intestinal and tissue nematodes | Dr. Nurver Ülger |
| 09:40-10:30 | Intestinal and tissue nematodes | Dr. Nurver Ülger |
| 10:40-11:30 | Laboratory diagnosis of viral infections | Dr. Mehmet Burak Aksu |
| 11:40-12:30 | Laboratory diagnosis of viral infections | Dr. Mehmet Burak Aksu |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Pathology LAB: General principals of macroscopic evaluation (slide lecture) | Dr. İpek Erbarut |
| 15:40-16:30 | Development of T cells, T lymphocyte signaling mechanisms and activation | Dr. Tunç Akkoç |
| 16:40-17:30 | B Lymphocyte: Development and biology | Dr. Tunç Akkoç |
| 17:40-18:30 |  |  |
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| **Week-4 (25 September - 29 September 2023)** | | |
| **Monday** | **25 September** |  |
| 08:40-09:30 | Physiology of microcirculation and edema formation | Dr. Hızır Kurtel |
| 09:40-10:30 | Physiology of microcirculation and edema formation | Dr. Hızır Kurtel |
| 10:40-11:30 | Transplantation pathology | Dr. Handan Kaya |
| 11:40-12:30 | Amyloidosis | Dr. Handan Kaya |
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| 13:40-14:30 | Chronic inflammatory response | Dr. Handan Kaya |
| 14:40-15:30 | Cestodes and trematodes | Dr. Nurver Ülger |
| 15:40-16:30 | Introduction to Family Medicine | Dr. Pemra Cöbek Ünalan |
| 16:40-17:30 |  |  |
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| **Tuesday** | **26 September** |  |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 11:40-12:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 15:40-16:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 16:40-17:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| **Wednesday** | **27 September** |  |
| 08:40-09:30 | Microbiology LAB: Examination of protozoa -A | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Examination of protozoa -A | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB: Examination of protozoa -A | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB: Examination of protozoa -A | Multidisciplinary Lab. |
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| 13:40-14:30 | Microbiology LAB: Examination of protozoa -B | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Examination of protozoa -B | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Examination of protozoa -B | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Examination of protozoa -B | Multidisciplinary Lab. |
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| **Thursday** | **28 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -A | Multidisciplinary Lab. |
| 10:40-11:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -A | Multidisciplinary Lab. |
| 11:40-12:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -A | Multidisciplinary Lab. |
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| 13:40-14:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -B | Multidisciplinary Lab. |
| 14:40-15:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -B | Multidisciplinary Lab. |
| 15:40-16:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -B | Multidisciplinary Lab. |
| 16:40-17:30 |  |  |
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| **Friday** | **29 September** |  |
| 08:40-09:30 | Immune responses to extracellular and intracellular infections | Dr. Tunç Akkoç |
| 09:40-10:30 | Immune responses to extracellular and intracellular infections | Dr. Tunç Akkoç |
| 10:40-11:30 | Pharmacotherapy of viral infections | Dr. Zehra Nur Turgan |
| 11:40-12:30 | Pharmacotherapy of viral infections | Dr. Zehra Nur Turgan |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Biochemical aspect of cell death | Dr. Goncagül Haklar |
| 15:40-16:30 | Biochemical aspect of cell death | Dr. Goncagül Haklar |
| 16:40-17:30 | Application of nuclear medicine and radiotherapy | Dr. Halil Turgut Turoğlu |
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| **Week-5 (02 October - 06 October 2023)** | | |
| **Monday** | **02 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Bioterrorism: a global threat | Dr. Mehmet Burak Aksu |
| 10:40-11:30 | Radiation protection | Dr. Hülya Cabadak |
| 11:40-12:30 | Physiology of pain | Dr. Alper Yıldırım |
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| 13:40-14:30 | Body temperature and its regulation | Dr. Hızır Kurtel |
| 14:40-15:30 | Body temperature and its regulation | Dr. Hızır Kurtel |
| 15:40-16:30 | DNA viruses: Adenoviruses, Parvoviruses, Papovaviruses, and Poxviruses | Dr. Mehmet Burak Aksu |
| 16:40-17:30 | Pharmacotherapy in parasitic infections | Dr. Mert Kaşkal |
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| **Tuesday** | **03 October** |  |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 11:40-12:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 15:40-16:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
| 16:40-17:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research Activity-2 | ICP Lab. |
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| **Wednesday** | **04 October** |  |
| 08:40-09:30 | Microbiology LAB: Examination of helminths and medically important arthropods-A | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Examination of helminths and medically important arthropods-A | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB: Examination of helminths and medically important arthropods-A | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB: Examination of helminths and medically important arthropods-A | Multidisciplinary Lab. |
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| 13:40-14:30 | Microbiology LAB: Examination of helminths and medically important arthropods-A | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Examination of helminths and medically important arthropods-A | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Examination of helminths and medically important arthropods-A | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Examination of helminths and medically important arthropods-A | Multidisciplinary Lab. |
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| **Thursday** | **05 October** |  |
| 08:40-09:30 | Patient with fever and rash | Dr. Saliha Serap Çifçili |
| 09:40-10:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -C /  **ICP-2 Qualitative Research - Group A-B** | Multidisciplinary Lab. / **Dr. Dilşad Save** |
| 10:40-11:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -C /  **ICP-2 Qualitative Research - Group A-B** | Multidisciplinary Lab. / **Dr. Dilşad Save** |
| 11:40-12:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -C /  **ICP-2 Qualitative Research - Group A-B** | Multidisciplinary Lab. / **Dr. Dilşad Save** |
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| 13:40-14:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -D | Multidisciplinary Lab. |
| 14:40-15:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -D | Multidisciplinary Lab. |
| 15:40-16:30 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -D | Multidisciplinary Lab. |
| 16:40-17:30 |  |  |
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| **Friday** | **06 October** |  |
| 08:40-09:30 | Drug-induced immune response and antiallergic treatment | Dr. Hasan Raci Yananlı |
| 09:40-10:30 | Haemodynamic disorders | Dr. Çiğdem Ataizi Çelikel |
| 10:40-11:30 | Thromboembolic disease | Dr. Çiğdem Ataizi Çelikel |
| 11:40-12:30 | Thromboembolic disease | Dr. Çiğdem Ataizi Çelikel |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | RNA viruses: Orthomyxoviruses and Paramyxoviruses | Dr. Mehmet Burak Aksu |
| 15:40-16:30 | RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses | Dr. Mehmet Burak Aksu |
| 16:40-17:30 |  |  |
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| **Week-6 (09 October - 13 October 2023)** | | |
| **Monday** | **09 October** |  |
| 08:40-09:30 | **Y2C1 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** | **10 October** |  |
| 08:40-09:30 | **Y2C1 PRACTICAL EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
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| **Wednesday** | **11 October** |  |
| 08:40-09:30 | **Y2C1 THEORETICAL EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
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| 13:40-14:30 |  |  |
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| 17:40-18:30 |  |  |
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| **Thursday** | **12 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
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| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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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 |  |  |
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| 16:40-17:30 |  |  |