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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 06 – October 22, 2021 | | | |
| **Coordinator of the Course 2.1**  Prof. Pelin BAĞCI | | | |
| **Year 2 Coordinators**  Prof. Özgür Kasımay ÇAKIR & Assist. 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.**  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 / 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 done both orally and by using structured evaluation forms |
| DEPARTMENTS PARTICIPATING IN COURSE-2.1 | |
| * Biochemistry * Biophysics * Child Health and Diseases * 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, Assist. Professor of Microbiology  Ahmet ARMAN, Professor of Medical Genetics  Pınar ATA, Professor of Medical Genetics  Çiğdem ATAİZİ ÇELİKEL, Professor of Pathology  Banu AYDIN OMAY, Assoc. Professor of Biophysics  Pelin BAĞCI, Professor of Pathology  Süheyla BOZKURT, Professor of Pathology  Hülya CABADAK, Professor of Biophysics  Nilgün ÇERİKÇİOĞLU, Professor of Microbiology  Saliha Serap ÇİFÇİLİ, Professor of Family Medicine  Elif DAĞLI, Professor of Child Health and Diseases  Rafi Haner DİRESKENELİ, Professor of Internal Medicine  İpek ERBARUT, Assist. Professor of Pathology  Deniz FİLİNTE, Assoc. Professor of Pathology  Zafer GÖREN, Professor of Pharmacology  Rezzan GÜLHAN, Professor of Pharmacology | Ahmet İlter GÜNEY, Assoc. 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  Salih ÖZGÜVEN, Assist. Professor of Nuclear Medicine  Handan KAYA, Professor of Pathology  Hızır KURTEL, Professor of Physiology  Pınar MEGA TİBER, Assoc. Professor of Biophysics  Oya ORUN, Professor of Biophysics  Erdi SÖZEN, Assist. Professor of Biochemistry  Halil Turgut TUROĞLU, Professor of Nuclear Medicine  Nurver ÜLGER, Professor of Microbiology  Gülru Pemra CÖBELEK ÜNALAN, Professor of Family Medicine  Hasan Raci YANANLI, Assoc. Professor of Pharmacology  Alper YILDIRIM, Assoc. Professor of Physiology |
| LABORATORY TUTORS  MICROBIOLOGY: M.U.Hasdemir, N.Çerikçioğlu, A.Karahasan, N.Ulger, Z.A.İlki, M.B.Aksu  PATHOLOGY: P.Bağcı | |
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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 |
| Child Health and Diseases | 2 |  | 2 |
| Family Medicine | 2 |  | 2 |
| Immunology | 12 |  | 12 |
| Microbiology | 25 | 6 | 31 |
| Nuclear Medicine | 2 |  | 2 |
| Pathology | 17 | 4 | 21 |
| Pharmacology | 17 |  | 17 |
| Physiology | 5 |  | 5 |
| Medical Genetics | 7 |  | 7 |
| **SUBTOTAL** | 105 | 10 | 115 |
| ICP-2: Basic Clinical Skills, Human in Medicine, Students Research Activity | 20 | 20 | 40 |
| **TOTAL** | **125** | **30** | **155** |

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| **SEVEN WEEK PROGRAM** | | |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week-1 (06 September - 10 September 2021)** | | |
| **Monday** | **06 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 | Introduction to the course and opening lecture | Dr. Mehmet Burak Aksu |
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| 13:40-14:30 | Radioactivity: the decay law; physical half-life, biological halflife | Dr. Oya Orun |
| 14:40-15:30 | Radioactivity: the decay law; physical half-life, biological halflife | Dr. Oya Orun |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Tuesday** | **07 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Biochemical aspect of cell death | Dr. Goncagül Haklar |
| 10:40-11:30 | Biochemical aspect of cell death | Dr. Goncagül Haklar |
| 11:40-12:30 | Effects of the electromagnetic waves on human health | Dr. Banu Aydın Omay |
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| 13:40-14:30 | Molecular mechanisms of necrosis and apoptosis | Dr. Ahmet Arman |
| 14:40-15:30 | Introduction to pathology | Dr. Süheyla Bozkurt |
| 15:40-16:30 | Cell injury and cell death | Dr. Handan Kaya |
| 16:40-17:30 | Cell injury and cell death | Dr. Handan Kaya |
| 17:40-18:30 |  |  |
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| **Wednesday** | **08 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Microbiology of water, milk and air | Dr. Nilgün Çerikçioğlu |
| 10:40-11:30 | Pathogenesis of parasitic disease | Dr. Nurver Ülger |
| 11:40-12:30 |  |  |
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| 13:40-14:30 | Types of radiation | Dr. Oya Orun |
| 14:40-15:30 | Types of radiation | Dr. Oya Orun |
| 15:40-16:30 | Cellular aging and death | Dr. Pınar Ata |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Thursday** | **09 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Molecular and radiobiological behavior | Dr. Hülya Cabadak |
| 10:40-11:30 | Microbial pathogenicity and virulence | Dr. Zeynep Arzu İlki |
| 11:40-12:30 | Blood and tissue protozoa | Dr. Nurver Ülger |
|  |  |  |
| 13:40-14:30 | Human microbiota | Dr. Nilgün Çerikçioğlu |
| 14:40-15:30 | Intestinal and urogenital protozoa | Dr. Nurver Ülger |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Friday** | **10 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Cultivation and identification of bacteria | Dr. Zeynep Arzu İlki |
| 10:40-11:30 | Effects of ionizing radiation on the cell and organism | Dr. Hülya Cabadak |
| 11:40-12:30 | Radiation protection | Dr. Hülya Cabadak |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Introduction to innate immune system | Dr. Rafi Haner Direskeneli |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Week-2 (13 September - 17 September 2021)** | | |
| **Monday** | **13 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Tissue and organ response to radiation and genetic effects of radiation | Dr. Salih Özgüven |
| 10:40-11:30 | Cestodes and trematodes | Dr. Nurver Ülger |
| 11:40-12:30 | Introduction to pharmacology | Dr. Hasan Raci Yananlı |
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| 13:40-14:30 | Introduction to ICP-2 | Dr. Gülru Pemra Ünalan, Dr. Serap ÇİFÇİLİ |
| 14:40-15:30 | Dosimetry, basic concepts | Dr. Oya Orun |
| 15:40-16:30 | Electromagnetic spectrum | Dr. Oya Orun |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Tuesday** | **14 September** |  |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 11:40-12:30 |  |  |
|  | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
|  | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 15:40-16:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 16:40-17:30 |  |  |
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| **Wednesday** | **15 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Intestinal and tissue nematodes | Dr. Nurver Ülger |
| 10:40-11:30 | Intestinal and tissue nematodes | Dr. Nurver Ülger |
| 11:40-12:30 | Routes of drug administration | Dr. Hasan Raci Yananlı |
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| 13:40-14:30 | Microbiology LAB: Examination of microbiota-A | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Examination of microbiota-B | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Examination of microbiota-C | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Examination of microbiota-D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Thursday** | **16 September** |  |
| 08:40-09:30 | Acute inflammatory response | Dr. Deniz Filinte |
| 09:40-10:30 | Acute inflammatory response | Dr. Deniz Filinte |
| 10:40-11:30 | General pharmacokinetic principles-1 | Dr. Rezzan Gülhan |
| 11:40-12:30 | General pharmacokinetic principles- 2 | Dr. Rezzan Gülhan |
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| 13:40-14:30 | Microbiology LAB: Examination of microbiota-A | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Examination of microbiota-B | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Examination of microbiota-C | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Examination of microbiota-D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Friday** | **17 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 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 |  |  |
| 14:40-15:30 | Adaptive cell reactions and abnormal accumulations | Dr. İpek Erbarut |
| 15:40-16:30 | General pharmacokinetic principles-3 | Dr. Rezzan Gülhan |
| 16:40-17:30 | General pharmacokinetic principles- 4 | Dr. Rezzan Gülhan |
| 17:40-18:30 |  |  |
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| **Week-3 (20 September - 24 September 2021)** | | |
| **Monday** | **20 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Tissue renewal and repair: regeneration, healing and fibrosis | Dr. Pelin Bağcı |
| 10:40-11:30 | Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions | Dr. Tunç Akkoç |
| 11:40-12:30 | Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions | Dr. Tunç Akkoç |
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| 13:40-14:30 | Major histocompatibility complex (MHC) molecules, antigen processing and presentation | Dr. Tunç Akkoç |
| 14:40-15:30 | Basic principles of drug toxicity | Dr. Hasan Raci Yananlı |
| 15:40-16:30 | Mechanism of drug action | Dr. Zafer Gören |
| 16:40-17:30 | Mechanism of drug action | Dr. Zafer Gören |
| 17:40-18:30 |  |  |
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| **Tuesday** | **21 September** |  |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-3 |  |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 11:40-12:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
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| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 15:40-16:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 16:40-17:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 17:40-18:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
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| **Wednesday** | **22 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Basic principles of immunopathology | Dr. Süheyla Bozkurt |
| 11:40-12:30 | Pathology of hypersensitivity reactions | Dr. Süheyla Bozkurt |
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| 13:40-14:30 | Mechanism of viral pathogenesis | Dr. Ufuk Hasdemir |
| 14:40-15:30 | Signal transduction of inflammation | Dr. Ahmet Arman |
| 15:40-16:30 | Antiseptics and disenfectants | Dr. Hasan Raci Yananlı |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Thursday** | **23 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Eicosanoids and related compounds | Dr. Erdi Sözen |
| 10:40-11:30 | Eicosanoids and related compounds | Dr. Erdi Sözen |
| 11:40-12:30 | Introduction to chemotherapeutics | Dr. Rezzan Gülhan |
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| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 | Chronic inflammatory response | Dr. Handan Kaya |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Friday** | **24 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 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 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Week-4 (27 September - 01 October 2021)** | | |
| **Monday** | **27 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Cytokines | Dr. Tunç Akkoç |
| 11:40-12:30 | Cytokines | Dr. Tunç Akkoç |
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| 13:40-14:30 | Development of T cells, T lymphocyte signaling mechanisms and activation | Dr. Tunç Akkoç |
| 14:40-15:30 | B Lymphocyte: Development and biology | Dr. Tunç Akkoç |
| 15:40-16:30 | Microbial toxins | Dr. Mehmet Burak Aksu |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Tuesday** | **28 September** |  |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 11:40-12:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
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| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 15:40-16:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 16:40-17:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 17:40-18:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
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| **Wednesday** | **29 September** |  |
| 08:40-09:30 | Microbiology LAB: Examination of protozoa -C | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Examination of protozoa -C | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB: Examination of protozoa -D | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB: Examination of protozoa -D | Multidisciplinary Lab. |
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| 13:40-14:30 | DNA viruses: Herpes viruses | Dr. Ufuk Hasdemir |
| 14:40-15:30 | Hepatitis viruses | Dr. Ufuk Hasdemir |
| 15:40-16:30 | Pharmacogenetics | Dr. Ahmet İlter Güney |
| 16:40-17:30 | Pharmacogenetics | Dr. Ahmet İlter Güney |
| 17:40-18:30 |  |  |
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| **Thursday** | **30 September** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Pharmacotherapy in parasitic infections | Dr. Mert Kaşkal |
| 10:40-11:30 | Host parasite interactions | Dr. Mehmet Burak Aksu |
| 11:40-12:30 | Host parasite interactions | Dr. Mehmet Burak Aksu |
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| 13:40-14:30 | Microbiology LAB: Examination of protozoa -A | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Examination of protozoa -A | 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. |
| 17:40-18:30 |  |  |
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| **Friday** | **01 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 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 | Structure and function of complement system | Dr. Tunç Akkoç |
| 15:40-16:30 | Immunogenetics of transplantation | Dr. Pınar Ata |
| 16:40-17:30 | Immunogenetics of transplantation | Dr. Pınar Ata |
| 17:40-18:30 |  |  |
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| **Week-5 (04 October - 08 October 2021)** | | |
| **Monday** | **04 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus | Dr. Mehmet Burak Aksu |
| 10:40-11:30 | Immune responses to extracellular and intracellular infections | Dr. Tunç Akkoç |
| 11:40-12:30 | Immune responses to extracellular and intracellular infections | Dr. Tunç Akkoç |
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| 13:40-14:30 | Physiology of microcirculation and edema formation | Dr. Hızır Kurtel |
| 14:40-15:30 | Physiology of microcirculation and edema formation | Dr. Hızır Kurtel |
| 15:40-16:30 | RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses | Dr. Ufuk Hasdemir |
| 16:40-17:30 | RNA viruses: Retroviruses and HIV | Dr. Ufuk Hasdemir |
| 17:40-18:30 |  |  |
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| **Tuesday** | **05 October** |  |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 11:40-12:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
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| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 15:40-16:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 16:40-17:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 17:40-18:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
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| **Wednesday** | **06 October** |  |
| 08:40-09:30 | Health effects of tobacco | Dr. Ela Erdem Eralp |
| 09:40-10:30 | Body temperature and its regulation | Dr. Hızır Kurtel |
| 10:40-11:30 | Body temperature and its regulation | Dr. Hızır Kurtel |
| 11:40-12:30 | Pathology of autoimmune disorders | Dr. Süheyla Bozkurt |
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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** | **07 October** |  |
| 08:40-09:30 | Microbiology LAB: Examination of helminths and medically important arthropods-D | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Examination of helminths and medically important arthropods-D | 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-B | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Examination of helminths and medically important arthropods-B | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Examination of helminths and medically important arthropods-C | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Examination of helminths and medically important arthropods-C | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Friday** | **08 October** |  |
| 08:40-09:30 | Health effects of tobacco | Dr. Ela Erdem Eralp |
| 09:40-10:30 |  |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 13:40-14:30 |  |  |
| 14:40-15:30 | Introduction to Family Medicine | Dr. Gülru Pemra Ünalan |
| 15:40-16:30 | Physiology of pain | Dr. Alper Yıldırım |
| 16:40-17:30 | Patient with fever and rash | Dr. Saliha Serap Çifçili |
| 17:40-18:30 |  |  |
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| **Week-6 (11 October - 15 October 2021)** | | |
| **Monday** | **11 October** |  |
| 08:40-09:30 | Haemodynamic disorders | Dr. Çiğdem Ataizi Çelikel |
| 09:40-10:30 | Thromboembolic disease | Dr. Çiğdem Ataizi Çelikel |
| 10:40-11:30 | DNA viruses: Adenoviruses, Parvoviruses, Papavoviruses, and Poxviruses | Dr. Ayşegül Karahasan |
| 11:40-12:30 | RNA viruses: Orthomyxoviruses and Paramyxoviruses | Dr. Ayşegül Karahasan |
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| 13:40-14:30 | Drug-induced immune response and antiallergic treatment | Dr. Hasan Raci Yananlı |
| 14:40-15:30 | Bridging innate and adaptive immunity dendritic cells, NK cells, NKT cells and other innate-like T and B lineages | Dr. Rafi Haner Direskeneli |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Tuesday** | **12 October** |  |
| 08:40-09:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 09:40-10:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-3 |  |
| 10:40-11:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 11:40-12:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
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| 13:40-14:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 14:40-15:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 15:40-16:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 16:40-17:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
| 17:40-18:30 | ICP-2: Basic Clinical Skills-Human in Medicine- Students Research  Activity-2 |  |
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| **Wednesday** | **13 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses | Dr. Ayşegül Karahasan |
| 10:40-11:30 | Bioterrorism: a global threat | Dr. Ayşegül Karahasan |
| 11:40-12:30 | **Medical English Exemption Test** (for Year 1 students) |  |
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| 13:40-14:30 | Pathology LAB: General principals of macroscopic evaluation (slide lecture) | Dr. Pelin Bağcı |
| 14:40-15:30 | Application of nuclear medicine and radiotherapy | Dr. Halil Turgut Turoğlu |
| 15:40-16:30 | Pharmacotherapy of viral infections | Dr Zehra Nur Turgan |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Thromboembolic disease (only on UZEM) | Dr. Çiğdem Ataizi Çelikel |
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| **Thursday** | **14 October** |  |
| 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 |  |  |
| 17:40-18:30 |  |  |
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| **Friday** | **15 October** |  |
| 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 -C | 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 -C | 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 -C | Multidisciplinary Lab. |
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| 13:40-14:30 |  |  |
| 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 | Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
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| **Week-7 (18 October - 22 October 2021)** | | |
| **Monday** | **18 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 14:40-15:30 |  |  |
| 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** | **19 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| **Wednesday** | **20 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** | **21 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
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| **Friday** | **22 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
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| 14:40-15:30 |  |  |
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| 17:40-18:30 |  |  |