|  |
| --- |
| **C:\Users\Namariel\Downloads\TıpF (1)\TıpF\TıpF-2.png****MARMARA UNIVERSITY SCHOOL of MEDICINE** |
| CELL AND TISSUE INJURY - II YEAR 2 COURSE 2October 25 – December 15, 2021 |
| **Coordinator of the Course 2.2** Prof. Seyhan HIDIROĞLU | **Coordinator of the Module 2.2**Prof. Ahmet TOPUZOĞLU |
| **Year 2 Coordinators** Prof. Özgür Kasımay ÇAKIR & Assist. Prof. M.Burak AKSU |
| **Module Coordinator**Prof. Rezzan GÜLHANAssist. 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 |

|  |
| --- |
| 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
 |
| 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.
 |
| PHASES – 1 THEMA/ORGAN SYSTEM-BASED COURSE PROGRAMSYear 1, Course 1: Introduction to Cell and Cellular ReplicationYear 1, Course 2: Cellular Metabolism and TransportYear 1, Course 3: Development and Organization of Human BodyYear 1, Course 4: Introduction to Nervous System and Human BehaviorYear 2, Course 1: Cell and Tissue Injury I Year 2, Course 2: Cell and Tissue Injury IIYear 2, Course 3: Hematopoietic System and Related DisordersYear 2, Course 4: Musculoskeletal, Integumentary Systems and Related DisordersYear 2, Course 5: Respiratory System and Related DisordersYear 3, Course 1: Cardiovascular System and Related DisordersYear 3, Course 2: Gastrointestinal System, Metabolism and Related DisordersYear 3, Course 3: Nervous System and Related DisordersYear 3, Course : Growth, Development, Mental Health and Related DisordersYear 3, Course 5: Urinary and Reproductive System and Related Disorders |

|  |
| --- |
| CELL AND TISSUE INJURY - II  |
| 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 understand 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 bacteria and bacterial pathogenesis;
* gain knowledge about fungi and pathogenesis of fungal 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 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-2.2 |
| * Biochemistry
* Family Medicine
* Microbiology
* Immunology
 | * Pathology
* Pediatrics
* Pharmacology
* Public Health
 |
| LECTURERS / TUTORS |
| Rengin Asiye AHISKALI, Professor of PathologyAhmet AKICI, Professor of Pharmacology Tunç AKKOÇ, Professor of Immunology Mehmet AKMAN, Professor of Public HealthMehmet Burak AKSU, Assist. Professor of MicrobiologyNadiye Pınar AY, Professor of Public Health Elif AYDINER, Assoc. Professor of PediatricsPelin BAĞCI, Professor of PathologyNilgün ÇERİKÇİOĞLU, Professor of MicrobiologyZafer GÖREN, Professor of Pharmacology Rezzan GÜLHAN, Professor of Pharmacology Ufuk HASDEMİR, Professor of MicrobiologySeyhan HIDIROĞLU, Assoc. Professor of Public Health | Arzu AKŞİT İLKİ, Professor of Microbiology Ayşegül KARAHASAN, Professor of Microbiology Handan KAYA, Professor of Pathology Nimet Emel LÜLECİ, Professor of Public Health Filiz ONAT, Professor of Pharmacology Ayşe Nilüfer ÖZAYDIN, Assoc. Professor of Public HealthAhmet Oğuzhan ÖZEN, Professor of Pediatrics Önder ŞİRİKÇİ, Professor of BiochemistryAyşe Gülsen TEKER, Lecturer of Public HealthAhmet TOPUZOĞLU, Professor of Public Health Zehra Nur Turgan, Assist. Professor of Pharmacology Hüseyin Kemal TÜRKÖZ, Assoc. Professor of PathologyNurver ÜLGER, Professor of Microbiology |

|  |
| --- |
| LABORATORY TUTORSMICROBIOLOGY: G.Söyledir, M.U.Hasdemir, N.Çerikçioğlu, A.Karahasan, N.Ulger, Z.A.İlki, M.B.AksuPATHOLOGY: K.Türköz, D.FilintePUBLIC HEALTH: S.Hıdıroğlu |
| 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 forTechnologist (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 (CedricMims et al.)
* Review of MedicalMicrobiology (Patrie R. Murray, Ken S. Rosenthal)
* Cellular and MolecularImmunology 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)
 |

|  |
| --- |
| SUMMARY OF THE COURSE |
| **Discipline** | **Lecture & Group Discussion** | **Multidisciplinary Lab. & Clinical Skills Lab. Practice** | Total |
| Biochemistry | 2 |  | 2 |
| Family Medicine | 1 |  | 1 |
| Immunology | 6 |  | 6 |
| Microbiology | 32 | 20 | 52 |
| Pathology | 18 | 8 | 26 |
| Pediatrics | 2 |  | 2 |
| Pharmacology | 10 |  | 10 |
| Public Health | 17 | 3 | 19 |
| **Subtotal** | **87** | **31** | **118** |
| PBL Module | 8 |  | 8 |
| ICP-2: Basic Clinical Skills, Human in Medicine (Students’ Research Activity) | 24 | 24 | 48 |
| **TOTAL** | **119** | **55** | **174** |

|  |
| --- |
| **EIGHT WEEK PROGRAM** |
|  | **THEORETICAL AND PRACTICAL SESSIONS** | **LECTURER(S)/TUTOR(S)** |
| **Week-1 (25 October - 29 October 2021)** |
| **Monday** | **25 October** |  |
| 08:40-09:30 | Biochemistry TELAFI Lab- Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Biochemistry TELAFI Lab- Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Biochemistry TELAFI Lab- Group A | Multidisciplinary Lab. |
| 11:40-12:30 | Biochemistry TELAFI Lab- Group A | Multidisciplinary Lab. |
|  |  |  |
|  |  |  |
| 13:40-14:30 | Biochemistry TELAFI Lab- Group B | Multidisciplinary Lab. |
| 14:40-15:30 | Biochemistry TELAFI Lab- Group B | Multidisciplinary Lab. |
| 15:40-16:30 | Biochemistry TELAFI Lab- Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Biochemistry TELAFI Lab- Group B | Multidisciplinary Lab. |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **26 October** |  |
| 08:40-09:30 | ICP-2 / Biochemistry TELAFI Lab- Group D | Multidisciplinary Lab. |
| 09:40-10:30 | ICP-2 / Biochemistry TELAFI Lab- Group D | Multidisciplinary Lab. |
| 10:40-11:30 | ICP-2 / Biochemistry TELAFI Lab- Group D | Multidisciplinary Lab. |
| 11:40-12:30 | ICP-2 / Biochemistry TELAFI Lab- Group D | Multidisciplinary Lab. |
|  |  |  |
|  |  |  |
| 13:40-14:30 | ICP-2 / Biochemistry TELAFI Lab- Group C | Multidisciplinary Lab. |
| 14:40-15:30 | ICP-2 / Biochemistry TELAFI Lab- Group C | Multidisciplinary Lab. |
| 15:40-16:30 | ICP-2 / Biochemistry TELAFI Lab- Group C | Multidisciplinary Lab. |
| 16:40-17:30 | ICP-2 / Biochemistry TELAFI Lab- Group C | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |   |
| **Wednesday** | **27 October** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Introduction to the course and opening lecture | Dr. Ufuk Hasdemir |
| 11:40-12:30 | Staphylococci and their pathogenic properties | Dr. Ufuk Hasdemir |
|  |  |  |
| 13:40-14:30 | Environmental pathology | Dr. Pelin Bağcı |
| 14:40-15:30 | Environmental pathology | Dr. Pelin Bağcı |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **28 October** |  |
| 08:40-09:30 | Definitions used in the chain of infection | Dr. Nadiye Pınar Ay |
| 09:40-10:30 | Active and passive immunization | Dr. Nadiye Pınar Ay |
| 10:40-11:30 | Definitions (pandemic, epidemic, endemic, eradication, control, elimination) | Dr. Ayşe Nilüfer Özaydın |
| 11:40-12:30 | Definitions (incidence, prevalance, case definitions, primary and secondary attack rate) | Dr. Ayşe Nilüfer Özaydın |
|  |  |  |
| 13:40-14:30 | **TATİL** |  |
| 14:40-15:30 |  |
| 15:40-16:30 |  |
| 16:40-17:30 |  |
| 17:40-18:30 |  |
|  |  |  |
| **Friday** | **29 October** |  |
| 08:40-09:30 | **29 EKİM CUMHURİYET BAYRAMI** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |
| 13:40-14:30 |  |
| 14:40-15:30 |  |
| 15:40-16:30 |  |
| 16:40-17:30 |  |
| 17:40-18:30 |  |
|  |  |  |
| **Week-2 (01 November - 05 November 2021)** |
| **Monday** | **01 November** |  |
| 08:40-09:30 | Serological tests in clinical microbiology | Dr. Mehmet Burak Aksu |
| 09:40-10:30 | Serological tests in clinical microbiology | Dr. Mehmet Burak Aksu |
| 10:40-11:30 | Enterobacteriaceae and their pathogenic properties | Dr. Nilgün Çerikçioğlu |
| 11:40-12:30 | Enterobacteriaceae and their pathogenic properties | Dr. Nilgün Çerikçioğlu |
|  |  |  |
| 13:40-14:30 | Investigation of an epidemic | Dr. Ahmet Topuzoğlu |
| 14:40-15:30 | Investigation of an epidemic | Dr. Ahmet Topuzoğlu |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **02 November** |  |
| 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. |
|  |   |  |
| 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 |  |  |
|  |  |  |
| **Wednesday** | **03 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Neisseria, Moraxella and their pathogenic properties | Dr. Arzu Akşit İlki |
| 10:40-11:30 | Mechanisms of neoplasia and tumor markers | Dr. Önder Şirikçi |
| 11:40-12:30 | Mechanisms of neoplasia and tumor markers | Dr. Önder Şirikçi |
|  |   |   |
| 13:40-14:30 | Microbiology LAB: Serological tests-Group A | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Serological tests-Group A | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Serological tests-Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Serological tests-Group B | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **04 November** |  |
|  |  |  |
| 08:40-09:30 | Neoplasia: Definition and biology of tumor | Dr. Pelin Bağcı |
| 09:40-10:30 | Neoplasia: Definition and biology of tumor | Dr. Pelin Bağcı |
| 10:40-11:30 | Streptococci, Enterococci and their pathogenic properties | Dr. Nurver Ülger |
| 11:40-12:30 | Streptococci, Enterococci and their pathogenic properties | Dr. Nurver Ülger |
|  |   |   |
| 13:40-14:30 | Microbiology LAB: Serological tests-Group C | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Serological tests-Group C | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Serological tests-Group D | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Serological tests-Group D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **05 November** |  |
| 08:40-09:30 | Antimicrobial actions and resistance mechanisms to antimicrobials in bacteria | Dr. Ufuk Hasdemir |
| 09:40-10:30 | Principles of antimicrobial susceptibility testing | Dr. Ufuk Hasdemir |
| 10:40-11:30 | Infection prevention at health care facilities and waste disposal | Dr. Seyhan Hıdıroğlu |
| 11:40-12:30 | Infection prevention at health care facilities and waste disposal | Dr. Seyhan Hıdıroğlu |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Nonfermentative bacteria and their pathogenic properties | Dr. Nilgün Çerikçioğlu |
| 15:40-16:30 | Gram negative small nonenteric bacilli (Legionella, Francisella, Pasteurella) and their pathogenic properties | Dr. Nilgün Çerikçioğlu |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Week-3 (08 November - 12 November 2021)** |
| **Monday** | **08 November** |  |
| 08:40-09:30 | Investigation and management of outbreaks: Case examples | Dr. Ahmet Topuzoğlu |
| 09:40-10:30 | Investigation and management of outbreaks: Case examples | Dr. Ahmet Topuzoğlu |
| 10:40-11:30 | Orientation (dividing into small groups & explaining the task) Working in small groups (How to break chain of infection in several different cases) | Dr. Nimet Emel Lüleci |
| 11:40-12:30 | Group presentations & discussion (Measles, Malaria, Tetanus, Tbc, Brucellosis, Hepatitis) | Dr. Nimet Emel Lüleci |
|  |  |  |
| 13:40-14:30 | Evaluation | Dr. Nimet Emel Lüleci |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **09 November** |  |
| 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. |
|  |   |  |
| 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 |  |  |
|  |  |  |
| **Wednesday** | **10 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | **10 KASIM ATATÜRK'Ü ANMA TÖRENİ** |  |
| 10:40-11:30 | Pathogenetic mechanism of poststreptoccal diseases | Dr. Nurver Ülger |
| 11:40-12:30 | Gram negative small nonenteric bacilli (Haemophilus, Brucella, Bordetella) and their pathogenic properties | Dr. Arzu Akşit İlki |
|  |  |  |
| 13:40-14:30 | Neoplasia: Molecular basis of cancer | Dr. Handan Kaya |
| 14:40-15:30 | Neoplasia: Molecular basis of cancer | Dr. Handan Kaya |
| 15:40-16:30 | Neoplasia: Molecular basis of cancer | Dr. Handan Kaya |
| 16:40-17:30 |  |  |
| 17:40-18:30 | PBL-1 |  |
| 18:40-19:30 | PBL-1 |  |
|  |  |  |
| **Thursday** | **11 November** |  |
| 08:40-09:30 | Group work (asepsis, antisepsis, decontamination, washing, high level disinfection, sterilization) | Dr. Ayşe Gülsen Teker |
| 09:40-10:30 | Group presentations, summarizing as a flowchart and evaluation | Dr. Ayşe Gülsen Teker |
| 10:40-11:30 | Importance of infection prevention at health care facilities & terminology used | Dr. Ayşe Gülsen Teker |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 | Microbiology LAB: Examination of gram positive & gram negative cocci-Group B | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Examination of gram positive & gram negative cocci-Group B | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Examination of gram positive & gram negative cocci-Group C | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Examination of gram positive & gram negative cocci-Group C | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |   |
| **Friday** | **12 November** |  |
| 08:40-09:30 | Microbiology LAB: Examination of gram positive & gram negative cocci-Group D | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Examination of gram positive & gram negative cocci-Group D | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB: Examination of gram positive & gram negative cocci-Group A | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB: Examination of gram positive & gram negative cocci-Group A | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Neoplasia: Epidemiology and etiopathogenesis | Dr. Handan Kaya |
| 15:40-16:30 | Neoplasia: Epidemiology and etiopathogenesis | Dr. Handan Kaya |
| 16:40-17:30 | PBL Study time |  |
| 17:40-18:30 | PBL-2 |  |
| 18:40-19:30 | PBL-2 |  |
|  |  |  |
| **Week-4 (15 November - 19 November 2021)** |
| **Monday** | **15 November** |  |
|  |  |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Medically important yeasts and their pathogenic mechanisms | Dr. Nilgün Çerikçioğlu |
| 10:40-11:30 | Medically important yeasts and their pathogenic mechanisms | Dr. Nilgün Çerikçioğlu |
| 11:40-12:30 | Inflammation, immune regulation  | Dr. Tunç Akkoç |
|  |  |  |
| 13:40-14:30 | Aberrations in immune responses-Hypersensitivity reactions | Dr. Tunç Akkoç |
| 14:40-15:30 | Aberrations in immune responses-Hypersensitivity reactions | Dr. Tunç Akkoç |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **16 November** |  |
|  |  |   |
| 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. |
|  |   |  |
| 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 |  |  |
|  |  |   |
| **Wednesday** | **17 November** |  |
|  |  |  |
| 08:40-09:30 | Microbiology LAB: Examination of Enterobacteriaceae & nonfermentative gram negative bacilli-Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Examination of Enterobacteriaceae & nonfermentative gram negative bacilli-Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB: Examination of Enterobacteriaceae & nonfermentative gram negative bacilli-Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB: Examination of Enterobacteriaceae & nonfermentative gram negative bacilli-Group B | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 | Spirochetes and their pathogenic properties | Dr. Ayşegül Karahasan |
| 14:40-15:30 | Rickettsia, Ehrlichia and their pathogenic properties | Dr. Ayşegül Karahasan |
| 15:40-16:30 | Anaerobic gram negative bacteria and their pathogenic properties | Dr. Nurver Ülger |
| 16:40-17:30 | PBL Study time |  |
| 17:40-18:30 | PBL-3 |  |
| 18:40-19:30 | PBL-3 |  |
|  |  |  |
| **Thursday** | **18 November** |  |
| 08:40-09:30 | Microorganisms and carcinogenesis  | Dr. Ayşegül Karahasan |
| 09:40-10:30 | Chlamydia, Mycoplasma and their pathogenic properties | Dr. Ayşegül Karahasan |
| 10:40-11:30 | Neoplasia: Tumor immunity and clinical features of tumor | Dr. Handan Kaya |
| 11:40-12:30 | Anaerobic gram positive bacteria and their pathogenic properties | Dr. Nurver Ülger |
|  |  |  |
| 13:40-14:30 | Microbiology LAB: Examination of Enterobacteriaceae & nonfermentative gram negative bacilli-Group C | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Examination of Enterobacteriaceae & nonfermentative gram negative bacilli-Group C | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Examination of Enterobacteriaceae & nonfermentative gram negative bacilli-Group D | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Examination of Enterobacteriaceae & nonfermentative gram negative bacilli-Group D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **19 November** |  |
| 08:40-09:30 | Aerobic gram positive bacilli and their pathogenetic properties | Dr. Nurver Ülger |
| 09:40-10:30 | Gram negative curved bacilli (Vibrio, Campylobacter, Helicobacter)and their pathogenic properties | Dr. Arzu Akşit İlki |
| 10:40-11:30 | Neoplasia: Nomenclature | Dr. Handan Kaya |
| 11:40-12:30 | Neoplasia: Nomenclature | Dr. Handan Kaya |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Vaccines and antisera | Dr. Ayşegül Karahasan |
| 15:40-16:30 | Vaccines and antisera | Dr. Ayşegül Karahasan |
| 16:40-17:30 | PBL Study time |  |
| 17:40-18:30 | PBL-4 |  |
| 18:40-19:30 | PBL-4 |  |
|  |  |  |
| **Week-5 (22 November - 26 November 2021)** |
| **Monday** | **22 November** |   |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Pharmacotherapy in bacterial infections: Macrolides | Dr. Ahmet Akıcı |
| 10:40-11:30 | Tolerance and autoimmunity | Dr. Tunç Akkoç |
| 11:40-12:30 | Transplantation immunology | Dr. Tunç Akkoç |
|  |  |  |
| 13:40-14:30 | Immunity to cancers | Dr. Tunç Akkoç |
| 14:40-15:30 | Autopsy | Dr. Rengin Asiye Ahıskalı |
| 15:40-16:30 | Tumors and tumor like lesions | Dr. Rengin Asiye Ahıskalı |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **23 November** |  |
|  |  |   |
| 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. |
|  |   |  |
| 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 |  |  |
|  |  |   |
| **Wednesday** | **24 November** |  |
| 08:40-09:30 | Microbiology LAB: Examination of curved & nonenteric gram negative bacilli-Group C | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Examination of spore forming & non-spore forming bacilli-Group C | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB: Examination of curved & nonenteric gram negative bacilli-Group D | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB: Examination of spore forming & non-spore forming bacilli-Group D | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 | Mycobacteria, related microorganisms (Actinomyces, Nocardia) and their pathogenic properties | Dr. Arzu Akşit İlki |
| 14:40-15:30 | Mycobacteria, related microorganisms (Actinomyces, Nocardia) and their pathogenic properties | Dr. Arzu Akşit İlki |
| 15:40-16:30 | Pharmacotherapy in bacterial infections: penicillines | Dr. Mert Kaşkal |
| 16:40-17:30 | Pharmacotherapy in bacterial infections: penicillines | Dr. Mert Kaşkal |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **25 November** |  |
|  |  |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Collection and transport of specimen to laboratory | Dr. Arzu Akşit İlki |
| 11:40-12:30 | General approach to the laboratory diagnosis of infectious diseases | Dr. Arzu Akşit İlki |
|  |  |  |
| 13:40-14:30 | Microbiology LAB: Examination of curved & nonenteric gram negative bacilli-Group A | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Examination of spore forming & non-spore forming bacilli-Group A | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Examination of curved & nonenteric gram negative bacilli-Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Examination of spore forming & non-spore forming bacilli-Group B | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
|   |   |  |
| **Friday** | **26 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Introduction to primary care | Dr. Mehmet Akman |
| 10:40-11:30 | Pharmacotherapy in bacterial infections: Sulphonamides and other antibacterial drugs | Dr. Zafer Gören |
| 11:40-12:30 | Pharmacotherapy in bacterial infections: Aminoglycosides and quinolones | Dr. Zafer Gören |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Pharmacotherapy in bacterial infections: Cephalosporins | Dr. Zehra Nur Turgan |
| 15:40-16:30 | Pharmacotherapy in bacterial infections: Cephalosporins | Dr. Zehra Nur Turgan |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Week-6 (29 November - 03 December 2021)** |
| **Monday** | **29 November** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 | Dermatophytes and their pathogenic mechanism | Dr. Nilgün Çerikçioğlu |
| 11:40-12:30 | Molds, dimorphic fungi, P. carinii (P. jiroveci) and their pathogenic mechanisms | Dr. Nilgün Çerikçioğlu |
|  |  |  |
| 13:40-14:30 | Tissue responses to infections | Dr. Rengin Asiye Ahıskalı |
| 14:40-15:30 | Infectious diseases-Morphologic patterns of injury-1 | Dr. Hüseyin Kemal Türköz |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **30 November** |  |
|  |  |  |
| 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. |
|  |   |  |
| 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 |  |  |
|  |  |  |
| **Wednesday** | **01 December** |  |
|  |  |  |
| 08:40-09:30 | Pathology LAB:Anatomical/ Structural Abnormalities of Organs/Tissues and Mass Lesions-Group A | Multidisciplinary Lab. |
| 09:40-10:30 | Pathology LAB:Pathology of infectious diseases-Group A | Multidisciplinary Lab. |
| 10:40-11:30 | Pathology LAB:Anatomical/ Structural Abnormalities of Organs/Tissues and Mass Lesions-Group B | Multidisciplinary Lab. |
| 11:40-12:30 | Pathology LAB:Pathology of infectious diseases-Group B | Multidisciplinary Lab. |
|  |   |   |
| 13:40-14:30 | Pathology LAB:Anatomical/ Structural Abnormalities of Organs/Tissues and Mass Lesions-Group C | Multidisciplinary Lab. |
| 14:40-15:30 | Pathology LAB:Pathology of infectious diseases-Group C | Multidisciplinary Lab. |
| 15:40-16:30 | Pathology LAB:Anatomical/ Structural Abnormalities of Organs/Tissues and Mass Lesions-Group D | Multidisciplinary Lab. |
| 16:40-17:30 | Pathology LAB:Pathology of infectious diseases-Group D | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **02 December** |  |
|  |  |  |
| 08:40-09:30 | Microbiology LAB: Examination of Mycobacteria, Actinomyces, and Nocardia -Group B | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB: Examination of yeast & molds -Group B | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB: Examination of Mycobacteria, Actinomyces, and Nocardia -Group C | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB: Examination of yeast & molds -Group C | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 | Microbiology LAB: Examination of Mycobacteria, Actinomyces, and Nocardia -Group D | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB: Examination of yeast & molds -Group D | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB: Examination of Mycobacteria, Actinomyces, and Nocardia -Group A | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB: Examination of yeast & molds -Group A | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **03 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Public Health LAB: Infection Prevention: Field Study-Group A  | Dr. Seyhan Hıdıroğlu |
| 10:40-11:30 | Public Health LAB: Infection Prevention: Field Study-Group A  | Dr. Seyhan Hıdıroğlu |
| 11:40-12:30 | Public Health LAB: Infection Prevention: Field Study-Group A  | Dr. Seyhan Hıdıroğlu |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Public Health LAB: Infection Prevention: Field Study-Group B  | Dr. Seyhan Hıdıroğlu |
| 15:40-16:30 | Public Health LAB: Infection Prevention: Field Study-Group B  | Dr. Seyhan Hıdıroğlu |
| 16:40-17:30 | Public Health LAB: Infection Prevention: Field Study-Group B  | Dr. Seyhan Hıdıroğlu |
| 17:40-18:30 |  |  |
|  |  |  |
| **Week-7 (06 December - 10 December 2021)** |
| **Monday** | **06 December** |  |
| 08:40-09:30 | Pharmacotherapy in fungal infections | Dr. Zehra Nur Turgan |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 | Aberrations in Immune Responses-Immunologic mechanisms of allergic diseases | Dr. Elif Aydıner |
|  |  |  |
| 13:40-14:30 | Pharmacotherapy in bacterial infections: Broad spectrum antibiotics | Dr. Ahmet Akıcı |
| 14:40-15:30 | General principles of anticancer therapy | Dr. Rezzan Gülhan |
| 15:40-16:30 | Aberrations in immune responses- Immunodeficiencies | Dr. Ahmet Oğuzhan Özen |
| 16:40-17:30 |  |  |
| 17:40-18:30 | Elective course |  |
| 18:40-19:30 | Elective course |  |
|  |  |  |
| **Tuesday** | **07 December** |  |
|  |  |   |
| 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. |
|  |   |  |
| 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 | Infectious diseases-Morphologic patterns of injury-2 | Dr. Hüseyin Kemal Türköz-UZEM |
| 18:40-19:30 | Infectious diseases-Morphologic patterns of injury-3 | Dr. Hüseyin Kemal Türköz-UZEM |
|  |  |   |
| **Wednesday** | **08 December** |  |
|  |  |  |
| 08:40-09:30 | Pathology LAB:Pathologic evaluation of neoplastic lesions-Group D | Multidisciplinary Lab. |
| 09:40-10:30 | Pathology LAB:Pathologic evaluation of neoplastic lesions-Group D | Multidisciplinary Lab. |
| 10:40-11:30 | Pathology LAB:Pathologic evaluation of neoplastic lesions-Group C | Multidisciplinary Lab. |
| 11:40-12:30 | Pathology LAB:Pathologic evaluation of neoplastic lesions-Group C | Multidisciplinary Lab. |
|  |   |   |
| 13:40-14:30 | Pathology LAB:Pathologic evaluation of neoplastic lesions-Group B | Multidisciplinary Lab. |
| 14:40-15:30 | Pathology LAB:Pathologic evaluation of neoplastic lesions-Group B | Multidisciplinary Lab. |
| 15:40-16:30 | Pathology LAB:Pathologic evaluation of neoplastic lesions-Group A | Multidisciplinary Lab. |
| 16:40-17:30 | Pathology LAB:Pathologic evaluation of neoplastic lesions-Group A | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Thursday** | **09 December** |  |
|  |  |  |
| 08:40-09:30 | Microbiology LAB:Antimicrobial susceptibility testing-Group C | Multidisciplinary Lab. |
| 09:40-10:30 | Microbiology LAB:Antimicrobial susceptibility testing-Group C | Multidisciplinary Lab. |
| 10:40-11:30 | Microbiology LAB:Antimicrobial susceptibility testing-Group D | Multidisciplinary Lab. |
| 11:40-12:30 | Microbiology LAB:Antimicrobial susceptibility testing-Group D | Multidisciplinary Lab. |
|  |  |  |
| 13:40-14:30 | Microbiology LAB:Antimicrobial susceptibility testing-Group A | Multidisciplinary Lab. |
| 14:40-15:30 | Microbiology LAB:Antimicrobial susceptibility testing-Group A | Multidisciplinary Lab. |
| 15:40-16:30 | Microbiology LAB:Antimicrobial susceptibility testing-Group B | Multidisciplinary Lab. |
| 16:40-17:30 | Microbiology LAB:Antimicrobial susceptibility testing-Group B | Multidisciplinary Lab. |
| 17:40-18:30 |  |  |
|  |  |  |
| **Friday** | **10 December** |  |
|  |  |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 | Public Health LAB: Infection Prevention: Field Study-Group C  | Dr. Seyhan Hıdıroğlu |
| 10:40-11:30 | Public Health LAB: Infection Prevention: Field Study-Group C  | Dr. Seyhan Hıdıroğlu |
| 11:40-12:30 | Public Health LAB: Infection Prevention: Field Study-Group C  | Dr. Seyhan Hıdıroğlu |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 | Public Health LAB: Infection Prevention: Field Study-Group D  | Dr. Seyhan Hıdıroğlu |
| 15:40-16:30 | Public Health LAB: Infection Prevention: Field Study-Group D  | Dr. Seyhan Hıdıroğlu |
| 16:40-17:30 | Public Health LAB: Infection Prevention: Field Study-Group D  | Dr. Seyhan Hıdıroğlu |
| 17:40-18:30 |  |  |
|  |  |  |
| **Week-8 (13 December - 17 December 2021)** |
| **Monday** | **13 December** |  |
| 08:40-09:30 | **Y2C2 PRACTICAL EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Tuesday** | **14 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |  |  |
| 17:40-18:30 |  |  |
|  |  |  |
| **Wednesday** | **15 December** |  |
| 08:40-09:30 |  |  |
| 09:40-10:30 |  |  |
| 10:40-11:30 |  |  |
| 11:40-12:30 |  |  |
|  |  |  |
| 13:40-14:30 |  |  |
| 14:40-15:30 |  |  |
| 15:40-16:30 |  |  |
| 16:40-17:30 |   |   |
| 17:40-18:30 |   |   |
|  |   |   |
| **Thursday** | **16 December** |  |
| 08:40-09:30 | **Y2C2 THEORETICAL EXAM** |  |
| 09:40-10:30 |  |
| 10:40-11:30 |  |
| 11:40-12:30 |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |