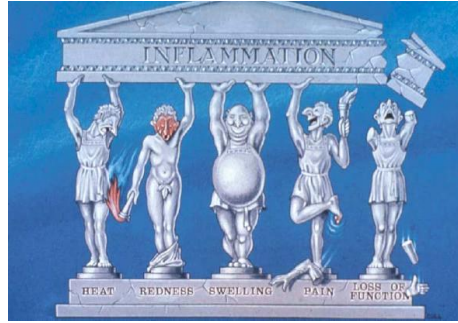


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Tıp Fakültesi

MARMARA UNIVERSITY
EASTERN MEDITERRANEAN UNIVERSITY
INTERNATIONAL MEDICAL SCHOOL



CELL AND TISSUE INJURY – I
YEAR 2 COURSE 1

August 31st, 2026 – October 16th, 2026

Year 2 Coordinators

Assist. Prof. Özlem KIRAZLI & Assoc. Prof. M. Burak AKSU & Assoc. Prof. Mümtaz GÜRAN

Module Coordinators

Prof. Rezzan GÜLHAN & Inst. Hüseyin BEYAZ

Coordinators of Multidisciplinary Students' Lab.

Assoc. Prof. M. Burak AKSU & Assoc. Prof. Ergül Mutlu
ALTUNDAĞ

Coordinators of Clinical Skill Lab.

Prof. Hasan R. YANANLI & Dr. Zehra GULTEKIN

Coordinators of ICS Res. Lab.

Prof. Hasan R. YANANLI & Assist. Prof. İlke AKÇAY

Vice-Chief Coordinators

Assessment

Assist. Prof. Cevdet NACAR & Assist. Prof. H. Eren
SAKALLI

Students' Affairs

Asist. Prof. Can ERZİK
Assist. Prof. İlke AKÇAY

Chief Coordinators

Prof. Hasan R. YANANLI & Assoc. Prof. Amber EKER

**Coordinator of Medical Education Program
Evaluation and Development Commission**

Prof. Tunç ÖNEŞ

Coordinator of the Joint Program

Prof. Ümit Süleyman ŞEHİRLİ

Dean (EMU)

Assoc. Prof. Nilüfer GÜZOĞLU

Dean (MU)

Prof. Ümit Süleyman ŞEHİRLİ

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LEARNING OUTCOMES / COMPETENCIES

- A. **Clinical Care: Qualified patient care and community-oriented health care**
 - 1. Basic clinical skills
 - 2. The organization and management of the patient and the patient care
 - 3. The organization and the management of health care delivery services / system
 - 4. Health promotion and disease prevention
- B. **Medical Knowledge and Evidence-Based Medicine**
 - 5. Appropriate information retrieval and management skills
 - 6. The integration of knowledge, critical thinking and evidence-based decision making
 - 7. Scientific methods and basic research skills
- C. **Professional Attitudes and Values**
 - 8. Communication skills and effective communication with patients / patient relatives
 - 9. Interpersonal relationships and team working
 - 10. Ethical and professional values, responsibilities
 - 11. Individual, social and cultural values and responsibilities
 - 12. Reflective practice and continuing development
 - 13. Healthcare delivery systems, management and community-oriented health care
 - 14. Education and counseling

PHASE-1 LEARNING OBJECTIVES

- 1. 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 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 4: 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 the course, performance during the module and reports for the modules.

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
- Family Medicine
- Immunology
- Medical Genetics

- Microbiology
- Nuclear Medicine
- Pathology
- Pharmacology
- Physiology

LECTURERS / TUTORS

Ahmet Arman, Prof., Medical Genetics
 Ahmet İlter Güney, Assoc. Prof., Medical Genetics
 Alper Yıldırım, Prof., Physiology
 Arzu Akşit İlki, Prof., Medical Microbiology
 Ayşe Mine Yılmaz, Assist. Prof., Medical Biochemistry
 Barış Can, Assist. Prof., Medical Microbiology
 Dilek Özbeyli, Assoc. Prof., Physiology
 Elvan Sayın, Assist. Prof., Medical Microbiology
 Ergül Mutlu Altundağ, Assoc., Prof., Medical Biochemistry
 Emine Özerinç, Instructor of Turkish Language
 Emine Çeşmecioğlu Karavin, Prof., Pathology
 Halil Eren Sakallı, Assist. Prof., Pharmacology

Hüseyin Kemal Türköz, Prof., Pathology
 İlke Akçay, Assist. Prof., Biostatistics
 İpek Erbarut, Assoc. Prof., Pathology
 Kadir Çakıral Dr., Chemistry
 Mehmet Burak Aksu, Assoc. Prof., Medical Microbiology
 Mümtaz Güran, Assoc. Prof., Medical Microbiology
 Nuh Filizoğlu, Assist. Prof., Nuclear Medicine
 Pınar Ata, Prof., Medical Genetics
 Pınar Mega Tiber, Prof., Biophysics
 Rezzan Gülhan, Prof., Pharmacology
 Salih Özgüven, Assoc., Prof., Nuclear Medicine
 Saliha Serap Çifçili, Prof., Family Medicine

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Handan Kaya, Prof., Pathology
Hasan Toper, Assist. Prof., Pathology
Hülya Cabadak, Prof., Biophysics
Hülya Şahin Özkan, Assist. Prof., Pathology

Tuğba Karamahmutoğlu, Assist. Prof., Pharmacology
Tunç Akkoç, Prof., Immunology
Zafer Gören, Prof., Pharmacology

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).
- Kubly Immunology 4th Edition (Goldsby, Kindt, Osborne).
- Immunobiology 6th Edition (Janeway, Travers, Walport, Schlomchik).
- Immunology, Infection and Immunity (Pier, Lyczak, Wetzler)

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Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total*
Biochemistry	4		4
Biophysics	8		8
Family Medicine	2		2
Immunology	12		12
Medical Genetics	7		7
Microbiology	26	6	32
Nuclear Medicine	2		2
Pathology	16	4	20
Pharmacology	18		18
Physiology	5		5
Subtotal*	100	10	110
ICS-2 Evidence Based Medicine (ICS-2 EBM) MDN2707	16	7	23
ICS-2 Basic Clinical Skills (ICS-2 BCS) MDN2705		4	4
Turkish for Medical Students-III**	12		12
Electives	4		4
Total	128** 120	21	149** 141

*Hours/student **For International Students

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		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	
Week - 1 (31 August - 04 September, 2026)				
	Calendar Days	Instructor Name	Lecture Platform	
Monday	31 August			
08:40-09:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS	
09:40-10:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS	
10:40-11:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS	
11:40-12:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS	
13:40-14:30	STUDY TIME			
14:40-15:30	STUDY TIME			
15:40-16:30	STUDY TIME			
16:40-17:30	STUDY TIME			
Tuesday	01 September			
08:40-09:30	Orientation for academic term	Dr. Mümtaz Güran	IN CLASS	
09:40-10:30	Introduction to the course and opening lecture	Dr. Mümtaz Güran	IN CLASS	
10:40-11:30	Pathogenesis of parasitic disease	Dr. Mümtaz Güran	IN CLASS	
11:40-12:30	Basic principles of drug toxicity	Dr. Halil Eren Sakallı	IN CLASS	
13:40-14:30	Biochemical aspect of cell death	Dr. Ayşe Mine Yılmaz Göler	IN CLASS	
14:40-15:30	Biochemical aspect of cell death	Dr. Ayşe Mine Yılmaz Göler	IN CLASS	
15:40-16:30	STUDY TIME			
16:40-17:30	STUDY TIME			
Wednesday	02 September			
08:40-09:30	Intestinal and urogenital protozoa	Dr. Mümtaz Güran	IN CLASS	
09:40-10:30	Blood and tissue protozoa	Dr. Mümtaz Güran	IN CLASS	

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10:40-11:30	Bioterrorism: a global threat	Dr. Mümtaz Güran	IN CLASS
11:40-12:30	Microbiology of water, milk and air	Dr. Mümtaz Güran	IN CLASS
13:40-14:30	Molecular mechanisms of necrosis and apoptosis	Dr. Ahmet Arman	MS TEAMS
14:40-15:30	Signal transduction of inflammation	Dr. Ahmet Arman	MS TEAMS
15:40-16:30	Introduction to pathology	Dr. Hüseyin Kemal Türköz	MS TEAMS
16:40-17:30	STUDY TIME		
Thursday	03 September		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	Antiseptics and disinfectants	Dr. Halil Eren Sakallı	IN CLASS
13:40-14:30	STUDY TIME		
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Friday	04 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Cellular aging and death	Dr. Pınar Ata	IN CLASS
10:40-11:30	Immunogenetics of transplantation	Dr. Pınar Ata	IN CLASS
11:40-12:30	Immunogenetics of transplantation	Dr. Pınar Ata	IN CLASS
13:40-14:30	Radioactivity: the decay law; physical half-life, biological half-life	Dr. Pınar Mega Tiber	MS TEAMS
14:40-15:30	Radioactivity: the decay law; physical half-life, biological half-life	Dr. Pınar Mega Tiber	MS TEAMS
15:40-16:30	Dosimetry, basic concepts	Dr. Pınar Mega Tiber	MS TEAMS
16:40-17:30	STUDY TIME		

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Week - 2 (07-11 September, 2026)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	07 September		
08:40-09:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
	Microbiology LAB: Examination of protozoa – Group A	Dr. Mümtaz Güran	Multidisciplinary Lab.
11:40-12:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
	Microbiology LAB: Examination of protozoa – Group A	Dr. Mümtaz Güran	Multidisciplinary Lab.
13:40-14:30	Microbiology LAB: Examination of protozoa - Group B	Dr. Mümtaz Güran	Multidisciplinary Lab
14:40-15:30	Microbiology LAB: Examination of protozoa - Group B	Dr. Mümtaz Güran	Multidisciplinary Lab
15:40-16:30	Microbiology LAB: Examination of protozoa - Group C	Dr. Mümtaz Güran	Multidisciplinary Lab
16:40-17:30	Microbiology LAB: Examination of protozoa - Group C	Dr. Mümtaz Güran	Multidisciplinary Lab
Tuesday	08 September		
08:40-09:30	ICS-2 EBM: Introduction to 2nd Year Research: Evaluation of ICS-1 Research Projects	Dr. İlke Akçay	IN CLASS
09:40-10:30	ICS-2 EBM: Introduction to 'MEDN263 Evidence Based Medicine' Course Credit, Assessment, Content and Ethical Approval Process	Dr. İlke Akçay	IN CLASS
10:40-11:30	ICS-2 EBM: Evidence based medicine	Dr. İlke Akçay	IN CLASS
11:40-12:30	ICS-2 EBM: Theme of 2nd year research projects: Health and Community	Dr. İlke Akçay	IN CLASS
13:40-14:30	Introduction to pharmacology	Dr. Rezzan Gülhan	IN CLASS
14:40-15:30	General pharmacokinetic principles-1--Absorption of drugs	Dr. Rezzan Gülhan	IN CLASS
15:40-16:30	General pharmacokinetic principles-2--Distribution of drugs	Dr. Rezzan Gülhan	IN CLASS

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16:40-17:30	STUDY TIME		
Wednesday	9 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Cestodes and trematodes	Dr. Mümtaz Güran	IN CLASS
10:40-11:30	Cell injury and cell death	Dr. Handan Kaya	IN CLASS
11:40-12:30	Cell injury and cell death	Dr. Handan Kaya	IN CLASS
13:40-14:30	General pharmacokinetic principles-3a--Metabolism of drugs	Dr. Rezzan Gülhan	IN CLASS
14:40-15:30	General pharmacokinetic principles-3b--Metabolism of drugs	Dr. Rezzan Gülhan	IN CLASS
15:40-16:30	General pharmacokinetic principles-4--Kinetics of drug movement in body	Dr. Rezzan Gülhan	IN CLASS
16:40-17:30	STUDY TIME		
Thursday	10 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Intestinal and tissue nematodes	Dr. Mümtaz Güran	IN CLASS
10:40-11:30	Intestinal and tissue nematodes	Dr. Mümtaz Güran	IN CLASS
11:40-12:30	STUDY TIME		
13:40-14:30	Chronic inflammatory response	Dr. Handan Kaya	IN CLASS
14:40-15:30	Transplantation pathology	Dr. Handan Kaya	IN CLASS
15:40-16:30	Amyloidosis	Dr. Handan Kaya	IN CLASS
16:40-17:30	STUDY TIME		
Friday	11 September		
08:40-09:30	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ	IN CLASS
09:40-10:30	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ	IN CLASS
10:40-11:30	Pharmacogenetics	Dr. Ahmet İlter Güney	IN CLASS
11:40-12:30	Pharmacogenetics	Dr. Ahmet İlter Güney	IN CLASS

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13:40-14:30	Pharmacotherapy in parasitic infections	Dr. Halil Eren Sakallı	IN CLASS
14:40-15:30	Building and Emergency Orientation	Dr. Mümtaz Güran Dr. Kadir Çakıral	IN CLASS
15:40-16:30	Laboratory Safety Orientation	Dr. Mümtaz Güran Dr. Kadir Çakıral	IN CLASS
16:40-17:30			
Week - 3 (14-18 September, 2026)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	14 September		
08:40-09:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
13:40-14:30	Types of radiation	Dr. Pınar Mega Tiber	MS TEAMS
14:40-15:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber	MS TEAMS
15:40-16:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber	MS TEAMS
16:40-17:30	STUDY TIME		
Tuesday	15 September		
08:40-09:30	ICS-2 EBM: Research Proposal Workshop (RPW) – Type of Research Studies Descriptive Studies (Case-reports, surveillance, literature reviews)	Dr. İlke Akçay	IN CLASS
09:40-10:30	ICS-2 EBM: Research Proposal Workshop (RPW) – Type of Research Studies Cross-sectional studies	Dr. İlke Akçay	IN CLASS
10:40-11:30	ICS-2 EBM: Research Proposal Workshop (RPW) – Type of Research Studies Case-control and Cohort studies	Dr. İlke Akçay	IN CLASS
11:40-12:30	ICS-2 EBM: Research Proposal Workshop (RPW) – Type of Research Studies Experimental studies, Systematic reviews and Meta-analyses	Dr. İlke Akçay	IN CLASS
13:40-14:30	STUDY TIME		

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14:40-15:30	Microbial toxins	Dr. Elvan Sayın	IN CLASS
15:40-16:30	ICS-2 Clinic Orientation	Dr. Zehra Gültekin	IN CLASS
16:40-17:30	Pathology LAB: General principals of macroscopic evaluation (slide lecture)	Dr. Kadriye Ebru Akar	MS TEAMS
Wednesday	16 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Drug-induced immune response and antiallergic treatment	Dr. Halil Eren Sakallı	IN CLASS
10:40-11:30	RNA viruses: Orthomyxoviruses and Paramyxoviruses	Dr. Mümtaz Güran	IN CLASS
11:40-12:30	RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses	Dr. Mümtaz Güran	IN CLASS
13:40-14:30	STUDY TIME		
14:40-15:30	Hepatitis viruses	Dr. Barış Can	IN CLASS
15:40-16:30	Patient with fever and rash	Dr. Saliha Serap Çifçili	IN CLASS
16:40-17:30	STUDY TIME		
Thursday	17 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Human microbiota	Dr. Mehmet Burak Aksu	IN CLASS
10:40-11:30	Host parasite interactions	Dr. Mehmet Burak Aksu	IN CLASS
11:40-12:30	Host parasite interactions	Dr. Mehmet Burak Aksu	IN CLASS
13:40-14:30	Mechanism of viral pathogenesis	Dr. Mehmet Burak Aksu	IN CLASS
14:40-15:30	Tissue and organ response to radiation and genetic effects of radiation	Dr. Salih Özgüven	IN CLASS
15:40-16:30	Application of nuclear medicine and radiotherapy	Dr. Nuh Filizoğlu	IN CLASS
16:40-17:30	STUDY TIME		
Friday	18 September		

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08:40-09:30	ICS-2 EBM: RPW – Introduction part of a Research Proposal Topic, title, literature review	Dr. İlke Akçay	IN CLASS
09:40-10:30	ICS-2 EBM: RPW – Introduction part of a Research Proposal How to specify research question(s), objective(s) and hypotheses of a research study?	Dr. İlke Akçay	IN CLASS
10:40-11:30	ICS-2 EBM: Group formation and Warm-up activities	Dr. İlke Akçay	IN CLASS
11:40-12:30	ICS-2 EBM: Practical session: Group study to discuss about candidate topics	Dr. İlke Akçay	IN CLASS
13:40-14:30	RNA viruses: Retroviruses and HIV	Dr. Mehmet Burak Aksu	IN CLASS
14:40-15:30	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu	IN CLASS
15:40-16:30	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu	IN CLASS
16:40-17:30	STUDY TIME		
Week – 4 (21-25 September, 2026)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	21 September		
08:40-09:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
13:40-14:30	Microbiology LAB: Human microbiota - Group A	Dr. Mümtaz Güran	Multidisciplinary Lab.
14:40-15:30	Microbiology LAB: Human microbiota - Group B	Dr. Mümtaz Güran	Multidisciplinary Lab.
15:40-16:30	Microbiology LAB: Human microbiota - Group C	Dr. Mümtaz Güran	Multidisciplinary Lab.
16:40-17:30	STUDY TIME		
Tuesday	22 September		
08:40-09:30	ICS-2 BCS: IM injection and IV Cannulation (Group A)	TBA	ICS LAB.

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09:40-10:30	ICS-2 BCS: IM injection and IV Cannulation (Group A)	TBA	ICS LAB.
10:40-11:30	ICS-2 BCS: IM injection and IV Cannulation (Group B)	TBA	ICS LAB.
11:40-12:30	ICS-2 BCS: IM injection and IV Cannulation (Group B)	TBA	ICS LAB.
13:40-14:30	STUDY TIME		
14:40-15:30	Microbiology LAB: Human microbiota- Group C	Dr. Mümtaz Güran	Multidisciplinary Lab.
15:40-16:30	Microbiology LAB: Human microbiota- Group B	Dr. Mümtaz Güran	Multidisciplinary Lab.
16:40-17:30	Microbiology LAB: Human microbiota- Group A	Dr. Mümtaz Güran	Multidisciplinary Lab.
Wednesday	23 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Microbial pathogenicity and virulence	Dr. Arzu Akşit İlki	IN CLASS
10:40-11:30	Cultivation and identification of bacteria	Dr. Arzu Akşit İlki	IN CLASS
11:40-12:30	Physiology of pain	Dr. Alper Yıldırım	IN CLASS
13:40-14:30	Physiology of microcirculation and edema formation	Dr. Alper Yıldırım	IN CLASS
14:40-15:30	Physiology of microcirculation and edema formation	Dr. Alper Yıldırım	IN CLASS
15:40-16:30	Introduction to innate immune system	Dr. Tunç Akkoç	IN CLASS
16:40-17:30	Major histocompatibility complex (MHC) molecules, antigen processing and presentation	Dr. Tunç Akkoç	IN CLASS
Thursday	24 September		
08:40-09:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç	IN CLASS
09:40-10:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç	IN CLASS
10:40-11:30	B Lymphocyte: Development and biology	Dr. Tunç Akkoç	IN CLASS

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11:40-12:30	Structure and function of complement system	Dr. Tunç Akkoç	IN CLASS
13:40-14:30	Adaptive cell reactions and abnormal accumulations	Dr. İpek Erbarut	IN CLASS
14:40-15:30	Mechanism of drug action	Dr. Zafer Gören	IN CLASS
15:40-16:30	Mechanism of drug action	Dr. Zafer Gören	IN CLASS
16:40-17:30	Pharmacology of serotonin	Dr. Zafer Gören	IN CLASS
Friday	25 September		
08:40-09:30	ICS-2 BCS: Suturing (Group B)	TBA	ICS LAB.
09:40-10:30	ICS-2 BCS: Suturing (Group B)	TBA	ICS LAB.
10:40-11:30	ICS-2 BCS: Suturing (Group A)	TBA	ICS LAB.
11:40-12:30	ICS-2 BCS: Suturing (Group A)	TBA	ICS LAB.
13:40-14:30	Autocoids	Dr. Zafer Gören	IN CLASS
14:40-15:30	Autocoids	Dr. Zafer Gören	IN CLASS
15:40-16:30	Autocoids	Dr. Zafer Gören	IN CLASS
16:40-17:30	ICS-2 EBM: Practical session: Group study to discuss about candidate topics	Dr. İlke Akçay	IN CLASS
Week – 5 (28 September – 02 October, 2026)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	28 September		
08:40-09:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
	Microbiology LAB: Examination of helminths and medically important arthropods - Group C	Dr. Mümtaz Güran	Multidisciplinary Lab.
09:40-10:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
	Microbiology LAB: Examination of helminths and medically important arthropods - Group C	Dr. Mümtaz Güran	Multidisciplinary Lab.
10:40-11:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
	Microbiology LAB: Examination of helminths and medically important arthropods - Group B	Dr. Mümtaz Güran	Multidisciplinary Lab.
11:40-12:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS

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	Microbiology LAB: Examination of helminths and medically important arthropods - Group B	Dr. Mümtaz Güran	Multidisciplinary Lab.
13:40-14:30	Microbiology LAB: Examination of helminths and medically important arthropods - Group A	Dr. Mümtaz Güran	Multidisciplinary Lab.
14:40-15:30	Microbiology LAB: Examination of helminths and medically important arthropods - Group A	Dr. Mümtaz Güran	Multidisciplinary Lab.
15:40-16:30	Electives		IN CLASS
16:40-17:30	Electives		IN CLASS
Tuesday	29 September		
08:40-09:30	ICS-2 EBM: RPW – Material and Methods part of a Research Proposal Contents of Material and Methods	Dr. İlke Akçay	IN CLASS
09:40-10:30	ICS-2 EBM: RPW – Material and Methods part of a Research Proposal Study population, sample and sampling methods	Dr. İlke Akçay	IN CLASS
10:40-11:30	ICS-2 EBM: RPW – Material and Methods part of a Research Proposal Important points in choosing the appropriate sampling method	Dr. İlke Akçay	IN CLASS
11:40-12:30	ICS-2 EBM: RPW – Material and Methods part of a Research Proposal Source of data (Data collection tools)	Dr. İlke Akçay	IN CLASS
13:40-14:30	Body temperature and its regulation	Dr. Dilek Özbeyli	IN CLASS
14:40-15:30	Body temperature and its regulation	Dr. Dilek Özbeyli	IN CLASS
15:40-16:30	ICS-2 EBM: Meeting with mentor	* Research groups are expected to meet their mentors during these hours. If the mentor's schedule is not available, another suitable time can be arranged.	
16:40-17:30	STUDY TIME		
Wednesday	30 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Acute inflammatory response	Dr. Hasan Toper	IN CLASS

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10:40-11:30	Acute inflammatory response	Dr. Hasan Toper	IN CLASS
11:40-12:30	Tissue renewal and repair: regeneration, healing and fibrosis	Dr. Hasan Toper	IN CLASS
13:40-14:30	DNA viruses: Adenoviruses, Parvoviruses, Papavoviruses, and Poxviruses	Dr. Mümtaz Güran	IN CLASS
14:40-15:30	Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus	Dr. Mümtaz Güran	IN CLASS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Thursday	1 October		
08:40-09:30	STUDY TIME		
09:40-10:30	Molecular and radiobiological behavior	Dr. Hülya Cabadak	IN CLASS
10:40-11:30	Effects of ionizing radiation on the cell and organism	Dr. Hülya Cabadak	IN CLASS
11:40-12:30	Introduction to chemotherapeutics	Dr. Tuğba Eryiğit Karamahmutoğlu	IN CLASS
13:40-14:30	Bridging innate and adaptive immunity dendritic cells, NK cells, NKT cells and other innate-like T and B lineages	Dr. Tunç Akkoç	IN CLASS
14:40-15:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç	IN CLASS
15:40-16:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç	IN CLASS
16:40-17:30	STUDY TIME		
Friday	2 October		
08:40-09:30	DNA viruses: Herpes viruses	Dr. Mümtaz Güran	IN CLASS
09:40-10:30	RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses	Dr. Mümtaz Güran	IN CLASS
10:40-11:30	Pharmacotherapy of viral infections	Dr. Halil Eren Sakallı	IN CLASS
11:40-12:30	Pharmacotherapy of viral infections	Dr. Halil Eren Sakallı	IN CLASS
13:40-14:30	Development of T cells, T lymphocyte signaling mechanisms and activation	Dr. Tunç Akkoç	IN CLASS

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14:40-15:30	Cytokines	Dr. Tunç Akkoç	IN CLASS
15:40-16:30	Cytokines	Dr. Tunç Akkoç	IN CLASS
16:40-17:30	STUDY TIME		
Week – 6 (05 – 9 October, 2026)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	05 October		
08:40-09:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish for Medical Students - III	Inst. Emine Özerinç	IN CLASS
13:40-14:30	STUDY TIME		
14:40-15:30	STUDY TIME		
15:40-16:30	Electives		
16:40-17:30	Electives		
Tuesday	06 October		
08:40-09:30	ICS-2 EBM: RPW – Material and Methods part of a Research Proposal Variables	Dr. İlke Akçay	IN CLASS
09:40-10:30	ICS-2 EBM: RPW – Material and Methods part of a Research Proposal Data analysis methods	Dr. İlke Akçay	IN CLASS
10:40-11:30	ICS-2 EBM: RPW – Research ethics and Research integrity principles	Dr. İlke Akçay	IN CLASS
11:40-12:30	ICS-2 EBM: RPW – Research ethics and Research integrity principles	Dr. İlke Akçay	IN CLASS
13:40-14:30	STUDY TIME		
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		

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Wednesday	07 October		
08:40-09:30	STUDY TIME		
09:40-10:30	Haemodynamic disorders	Dr. Emine Çeşmecioğlu Karavin	IN CLASS
10:40-11:30	Thromboembolic disease	Dr. Emine Çeşmecioğlu Karavin	IN CLASS
11:40-12:30	Thromboembolic disease	Dr. Emine Çeşmecioğlu Karavin	IN CLASS
13:40-14:30	Pathology of hypersensitivity reactions	Dr. Hülya Şahin Özkan	IN CLASS
14:40-15:30	Basic principles of immunopathology	Dr. Hülya Şahin Özkan	IN CLASS
15:40-16:30	Pathology of autoimmune disorders	Dr. Hülya Şahin Özkan	IN CLASS
16:40-17:30	ICS-2 EBM: Meeting with mentor	* Research groups are expected to meet their mentors during these hours. If the mentor's schedule is not available, another suitable time can be arranged.	
Thursday	08 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 - Group A	Dr. Hülya Şahin Özkan	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 - Group A	Dr. Hülya Şahin Özkan	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 - Group A	Dr. Hülya Şahin Özkan	Multidisciplinary Lab.
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 - Group B	Dr. Hülya Şahin Özkan	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 - Group B	Dr. Hülya Şahin Özkan	Multidisciplinary Lab.

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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 - Group B	Dr. Hülya Şahin Özkan	Multidisciplinary Lab.
16:40-17:30	STUDY TIME		
Friday	09 October		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	STUDY TIME		
13:40-14:30	STUDY TIME		
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Week – 7 (12 – 16 October, 2026)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	12 October		
08:40-09:30	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			
Tuesday	13 October		
08:40-09:30			
09:40-10:30			
10:40-11:30			

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11:40-12:30	PRACTICAL EXAM		
13:40-14:30			
14:40-15:30			
15:40-16:30			
16:40-17:30			
Wednesday	14 October		
08:40-09:30	Y3C1 COMMITTEE EXAM		
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30	STUDY TIME		
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Thursday	15 October		
08:40-09:30	Y2C1 COMMITTEE 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			
Friday	16 October		
08:40-09:30			
09:40-10:30			

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10:40-11:30			
11:40-12:30			
13:40-14:30			
14:40-15:30			
15:40-16:30			
16:40-17:30			