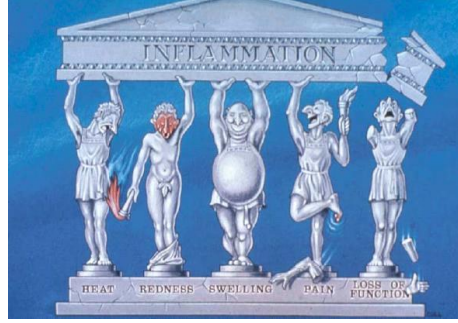


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Tıp Fakültesi

MARMARA UNIVERSITY
EASTERN MEDITERRANEAN UNIVERSITY
INTERNATIONAL MEDICAL SCHOOL



CELL AND TISSUE INJURY - I
YEAR 2 COURSE 1

Sep 01st, 2025 – October 16th , 2025

Year 2 Coordinators

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

Module Coordinators

Prof. Rezzan GÜLHAN & Inst. Huseyin 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. Tunc ONES

Coordinator of the Joint Program

Prof. Ümit Süleyman ŞEHİRLİ

Dean (EMU)

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 Biology
- Medical Genetics

- Microbiology
- Nuclear Medicine
- Pathology
- Pharmacology
- Physiology

LECTURERS / TUTORS

Ahmet Arman, Prof., Medical Genetics
Ahmet İlter Güney, Assoc. Prof., Medical Biology
Alper Yıldırım, Prof., Physiology
Amber Eker, Assist. Prof., Neurology
Arzu Akşit İlki, Prof., Medical Microbiology
Ayşe Mine Yılmaz, Assist. Prof., Medical Biochemistry
Banu Aydın Omay, Assoc. Prof., Biophysics
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

Hülya Şahin Özkan, Assist. Prof., Pathology
Hüseyin Kemal Türköz, Prof., Pathology
İlke Akçay, Assist. Prof., Biostatistics
İpek Erbarut, Assoc. Prof., Pathology
Mehmet Burak Aksu, Assoc. Prof., Medical Microbiology
Mümtaz Güran, Assoc. Prof., Medical Microbiology
Pınar Ata, Prof., Medical Genetics
Pınar Mega Tiber, Prof., Biophysics
Pemra Cöbek Ünalın, Prof., Family Medicine
Rezzan Gülhan, Prof., Pharmacology
Salih Özgüven, Assoc., Prof., Nuclear Medicine
Saliha Serap Çifçili, Prof., Family Medicine

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Emine Çeşmecioğlu Karavin, Prof., Pathology
Halil Eren Sakallı, Assist. Prof., Pharmacology
Halil Turgut Turoğlu, Prof., Nuclear Medicine
Handan Kaya, Prof., Pathology
Hasan Toper, Assist. Prof., Pathology
Hülya Cabadak, Prof., Biophysics

Tuğba Karamahmutoğlu, Assist. Prof., Pharmacology
Tunç Akkoç, Prof., Immunology
Zafer Gören, Prof., Pharmacology
Zehra Gültekin, Dr., Emergency Medicine

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 Biology	2		2
Medical Genetics	5		5
Microbiology	25	6	31
Nuclear Medicine	2		2
Pathology	16	4	20
Pharmacology	18		18
Physiology	5		5
Subtotal*	99	10	109
ICS-2 Evidence Based Medicine (ICS-2 EBM) MEDN263	14	7	21
ICS-2 Basic Clinical Skills (ICS-2 BCS) MEDN261		4	4
Turkish for Medical Students-III**	24	2	26
Electives	8		8
Total	137** 121	21	160** 142

*Hours/student **For International Students

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		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	
Week - 1 (01-05 September, 2025)				
	Calendar Days	Instructor Name	Lecture Platform	
Monday	01 September			
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS	
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS	
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS	
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	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	02 September			
08:40-09:30	STUDY TIME			
09:40-10:30	STUDY TIME			
10:40-11:30	STUDY TIME			
11:40-12:30	Introduction to the course and opening lecture	Dr. Mümtaz Güran	IN CLASS	
13:40-14:30	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ	IN CLASS	
14:40-15:30	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ	IN CLASS	
15:40-16:30	STUDY TIME			
16:40-17:30	STUDY TIME			
Wednesday	03 September			
08:40-09:30	STUDY TIME			
09:40-10:30	Microbiology of water, milk and air	Dr. Mümtaz Güran	IN CLASS	
10:40-11:30	Pathogenesis of parasitic disease	Dr. Mümtaz Güran	IN CLASS	
11:40-12:30	Blood and tissue protozoa	Dr. Mümtaz Güran	IN CLASS	

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13:40-14:30	Biochemical aspect of cell death	Dr. Ayşe Mine Yılmaz Göler	MS TEAMS
14:40-15:30	Biochemical aspect of cell death	Dr. Ayşe Mine Yılmaz Göler	MS TEAMS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Thursday	04 September		
08:40-09:30	RELIGIOUS HOLIDAY		
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	05 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Molecular mechanisms of necrosis and apoptosis	Dr. Ahmet Arman	MS TEAMS
10:40-11:30	Signal transduction of inflammation	Dr. Ahmet Arman	MS TEAMS
11:40-12:30	Introduction to Pathology	Dr. Hüseyin Kemal Türköz	MS TEAMS
13:40-14:30	Intestinal and urogenital protozoa	Dr. Mümtaz Güran	IN CLASS
14:40-15:30	Cestodes and trematodes	Dr. Mümtaz Güran	IN CLASS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Week - 2 (08-12 September, 2025)			
	Calendar Days	Instructor Name	Lecture Platform

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Monday	08 September		
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	ICS-2 EBM: Introduction to 2 nd Year Research: Evaluation of ICS-1 Research Projects	Dr. İlke Akçay	IN CLASS
14:40-15:30	ICS-2 EBM: Introduction to 'MEDN263 Evidence Based Medicine' Course Credit, Assessment, Content and Ethical Approval Process	Dr. İlke Akçay	IN CLASS
15:40-16:30	Intestinal and tissue nematodes	Dr. Mümtaz Güran	IN CLASS
16:40-17:30	Intestinal and tissue nematodes	Dr. Mümtaz Güran	IN CLASS
Tuesday	09 September		
08:40-09:30	ICS-2: Introduction to MEDN261 Basic Clinical Skills (BCS) and MEDN262 Human in Medicine	Dr. Amber Eker Bakkaloğlu Dr. Zehra Gültekin	IN CLASS
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	Introduction to innate immune system	Dr. Tunç Akkoç	IN CLASS
14:40-15:30	Major histocompatibility complex (MHC) molecules, antigen processing and presentation	Dr. Tunç Akkoç	IN CLASS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Wednesday	10 September		
08:40-09:30	ICS-2 EBM: Evidence based medicine	Dr. İlke Akçay	IN CLASS
09:40-10:30	ICS-2 EBM: Theme of 2 nd year research projects: Health and Community	Dr. İlke Akçay	IN CLASS
10:40-11:30	Introduction to pharmacology	Dr. Rezzan Gülhan	IN CLASS
11:40-12:30	General pharmacokinetic principles-1 – Absorption of drugs	Dr. Rezzan Gülhan	IN CLASS

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13:40-14:30	Bioterrorism: a global threat	Dr. Mümtaz Güran	IN CLASS
14:40-15:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç	IN CLASS
15:40-16:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç	IN CLASS
16:40-17:30	STUDY TIME		
Thursday	11 September		
08:40-09:30	General pharmacokinetic principles-2 – Distribution of drugs	Dr. Rezzan Gülhan	IN CLASS
09:40-10:30	General pharmacokinetic principles-3 – Metabolism and elimination of drugs	Dr. Rezzan Gülhan	IN CLASS
10:40-11:30	General pharmacokinetic principles-4 – Kinetics of drug movement in body	Dr. Rezzan Gülhan	IN CLASS
11:40-12:30	Human microbiota	Dr. Mehmet Burak Aksu	IN CLASS
13:40-14:30	Host parasite interactions	Dr. Mehmet Burak Aksu	IN CLASS
14:40-15:30	Host parasite interactions	Dr. Mehmet Burak Aksu	IN CLASS
15:40-16:30	Turkish For Medical Students-III (Interactive session)	Inst. Emine Özerinç	IN CLASS
16:40-17:30	Turkish For Medical Students-III (Interactive session)	Inst. Emine Özerinç	IN CLASS
Friday	12 September		
08:40-09:30	STUDY TIME		
09:40-10:30	ICS-2 EBM: Research Proposal Workshop (RPW) – Type of Research Studies Descriptive Studies (Case-reports, surveillance, literature reviews)	Dr. İlke Akçay	IN CLASS
10:40-11:30	ICS-2 EBM: Research Proposal Workshop (RPW) – Type of Research Studies Cross-sectional studies	Dr. İlke Akçay	IN CLASS
11:40-12:30	Mechanism of viral pathogenesis	Dr. Mehmet Burak Aksu	IN CLASS
13:40-14:30	RNA viruses: Retroviruses and HIV	Dr. Mehmet Burak Aksu	IN CLASS

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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 - 3 (15-19 September, 2025)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	15 September		
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	Microbiology LAB: Human microbiota-A	Dr.Mümtaz Güran	Multidisciplinary Lab.
14:40-15:30	Microbiology LAB: Human microbiota-B	Dr.Mümtaz Güran	Multidisciplinary Lab.
15:40-16:30	Basic principles of drug toxicity	Dr. Halil Eren Sakallı	IN CLASS
16:40-17:30	Antiseptics and disinfectants	Dr. Halil Eren Sakallı	IN CLASS
Tuesday	16 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Microbial toxins	Dr. Elvan Sayın	MS TEAMS
10:40-11:30	Microbial pathogenicity and virulence	Dr. Arzu Akşit İlki	MS TEAMS
11:40-12:30	Cultivation and identification of bacteria	Dr. Arzu Akşit İlki	MS TEAMS
13:40-14:30	RNA viruses: Orthomyxoviruses and Paramyxoviruses	Dr. Mümtaz Güran	IN CLASS
14:40-15:30	RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses	Dr. Mümtaz Güran	IN CLASS
15:40-16:30	Microbiology LAB: Human microbiota-A	Dr.Mümtaz Güran	Multidisciplinary Lab.
16:40-17:30	Microbiology LAB: Human microbiota-B	Dr.Mümtaz Güran	Multidisciplinary Lab.

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Wednesday	17 September		
08:40-09:30	ICS-2 BCS: IM injection and IV Cannulation Group B (1-2)	Dr. Zehra Gültekin Dr. Amber Eker Bakkaloğlu	ICS LAB
	Microbiology LAB: Examination of protozoa - Group A	Dr. Mümtaz Güran	Multidisciplinary Lab.
09:40-10:30	ICS-2 BCS: IM injection and IV Cannulation Group B (1-2)	Dr. Zehra Gültekin Dr. Amber Eker Bakkaloğlu	ICS LAB
	Microbiology LAB: Examination of protozoa - Group A	Dr. Mümtaz Güran	Multidisciplinary Lab.
10:40-11:30	ICS-2 BCS: IM injection and IV Cannulation Group A (1-2)	Dr. Zehra Gültekin Dr. Amber Eker Bakkaloğlu	ICS LAB
	Microbiology LAB: Examination of protozoa - Group B	Dr. Mümtaz Güran	Multidisciplinary Lab.
11:40-12:30	ICS-2 BCS: IM injection and IV Cannulation Group A (1-2)	Dr. Zehra Gültekin Dr. Amber Eker Bakkaloğlu	ICS LAB
	Microbiology LAB: Examination of protozoa - Group B	Dr. Mümtaz Güran	Multidisciplinary Lab.
13:40-14:30	Cell injury and cell death	Dr. Handan Kaya	IN CLASS
14:40-15:30	Cell injury and cell death	Dr. Handan Kaya	IN CLASS
15:40-16:30	ICS-2 EBM: Research Proposal Workshop (RPW) – Type of Research Studies Descriptive Studies (Case-reports, surveillance, literature reviews)	Dr. İlke Akçay	IN CLASS
16:40-17:30	ICS-2 EBM: Research Proposal Workshop (RPW) – Type of Research Studies Cross-sectional studies	Dr. İlke Akçay	IN CLASS
Thursday	18 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Hepatitis viruses	Dr. Barış Can	MS TEAMS
10:40-11:30	Tissue and organ response to radiation and genetic effects of radiation	Dr. Salih Özgüven	MS TEAMS
11:40-12:30	Application of nuclear medicine and radiotherapy	Dr. Halil Turgut Turoğlu	MS TEAMS

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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	19 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Adaptive cell reactions and abnormal accumulations	Dr. İpek Erbarut	MS TEAMS
10:40-11:30	Pathology LAB: General principals of macroscopic evaluation (slide lecture)	Dr. İpek Erbarut	MS TEAMS
11:40-12:30	Introduction to Family Medicine	Dr. Pemra Cöbek Ünalın	MS TEAMS
13:40-14:30	Patient with fever and rash	Dr. Saliha Serap Çiğçili	MS TEAMS
14:40-15:30	Pharmacogenetics	Dr. Ahmet İlter Güney	MS TEAMS
15:40-16:30	Pharmacogenetics	Dr. Ahmet İlter Güney	MS TEAMS
16:40-17:30	STUDY TIME		
Week – 4 (22-26 September, 2025)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	22 September		
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	ICS-2 EBM: RPW – Introduction part of a Research Proposal Topic, title, literature review	Dr. İlke Akçay	IN CLASS
14:40-15:30	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
15:40-16:30	Elective Courses		
16:40-17:30	Elective Courses		

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Tuesday	23 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Haemodynamic disorders	Dr. Emine Çeşmecioğlu Karavin	MS TEAMS
10:40-11:30	Thromboembolic disease	Dr. Emine Çeşmecioğlu Karavin	MS TEAMS
11:40-12:30	Thromboembolic disease	Dr. Emine Çeşmecioğlu Karavin	MS TEAMS
13:40-14:30	Body temperature and its regulation	Dr. Dilek Özbeyli	MS TEAMS
14:40-15:30	Body temperature and its regulation	Dr. Dilek Özbeyli	MS TEAMS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Wednesday	24 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Physiology of pain	Dr. Alper Yıldırım	IN CLASS
10:40-11:30	Physiology of microcirculation and edema formation	Dr. Alper Yıldırım	IN CLASS
11:40-12:30	Physiology of microcirculation and edema formation	Dr. Alper Yıldırım	IN CLASS
13:40-14:30	Radioactivity: the decay law; physical half-life, biological halflife	Dr. Pınar Mega Tiber	IN CLASS
14:40-15:30	Radioactivity: the decay law; physical half-life, biological halflife	Dr. Pınar Mega Tiber	IN CLASS
15:40-16:30	Dosimetry, basic concepts	Dr. Pınar Mega Tiber	IN CLASS
16:40-17:30	STUDY TIME		
Thursday	25 September		
08:40-09:30	ICS2 EBM: Practical session: Group study to discuss about candidate topics	Dr. İlke Akçay	IN CLASS
09:40-10:30	ICS2 EBM: Group formation and Warm-up activities	Dr. İlke Akçay	IN CLASS
10:40-11:30	Dosimetry, basic concepts	Dr. Pınar Mega Tiber	IN CLASS
11:40-12:30	Types of radiation	Dr. Pınar Mega Tiber	IN CLASS

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13:40-14:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber	IN CLASS
14:40-15:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber	IN CLASS
15:40-16:30	Mechanism of drug action	Dr. Zafer Gören	IN CLASS
16:40-17:30	Mechanism of drug action	Dr. Zafer Gören	IN CLASS
Friday	26 September		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Molecular and radiobiological behavior	Dr. Hülya Cabadak	MS TEAMS
11:40-12:30	Effects of ionizing radiation on the cell and organism	Dr. Hülya Cabadak	MS TEAMS
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	STUDY TIME		
Week – 5 (29 September – 03 October, 2025)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	29 September		
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	DNA viruses: Adenoviruses, Parvoviruses, Papavoviruses, and Poxviruses	Dr. Mümtaz Güran	IN CLASS
14:40-15:30	STUDY TIME		
15:40-16:30	Elective Courses		
16:40-17:30	Elective Courses		
Tuesday	30 September		

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08:40-09:30	STUDY TIME		
09:40-10:30	Acute inflammatory response	Dr. Hasan Toper	IN CLASS
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	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.	
Wednesday	1 October		
08:40-09:30	STUDY TIME		
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	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 - 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 - 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 - 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 - B	Dr. Hülya Şahin Özkan	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	Dr. Hülya Şahin Özkan	Multidisciplinary Lab.

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16:40-17:30	STUDY TIME		
Thursday	2 October		
08:40-09:30	DNA viruses: Herpes viruses	Dr. Mümtaz Güran	IN CLASS
09:40-10:30	Introduction to chemotherapeutics	Dr. Tuğba Eryiğit Karamahmutoğlu	MS TEAMS
10:40-11:30	Physiology of pain	Dr. Alper Yıldırım	MS TEAMS
11:40-12:30	Hepatitis viruses	Dr. Barış Can	MS TEAMS
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	Structure and function of complement system	Dr. Tunç Akkoç	IN CLASS
Friday	3 October		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
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
14:40-15:30	Cytokines	Dr. Tunç Akkoç	IN CLASS
15:40-16:30	Cytokines	Dr. Tunç Akkoç	IN CLASS
16:40-17:30	B Lymphocyte: Development and biology	Dr. Tunç Akkoç	IN CLASS
Week – 6 (06 – 10 October, 2025)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	06 October		
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS

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10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	Pharmacotherapy in parasitic infections	Dr. Halil Eren Sakallı	IN CLASS
14:40-15:30	Drug-induced immune response and antiallergic treatment	Dr. Halil Eren Sakallı	IN CLASS
15:40-16:30	Elective Courses		
16:40-17:30	Elective Courses		
Tuesday	07 October		
08:40-09:30	Microbiology LAB: Examination of helminths and medically important arthropods- Group B	Dr. Mümtaz Güran	Multidisciplinary Lab.
	ICS-2 BCS: Suturing Group A (1-2)	Dr. Zehra Gültekin Dr. Amber Eker Bakkaloğlu	ICS LAB
09:40-10:30	Microbiology LAB: Examination of helminths and medically important arthropods- Group B	Dr. Mümtaz Güran	Multidisciplinary Lab.
	ICS-2 BCS: Suturing Group A (1-2)	Dr. Zehra Gültekin Dr. Amber Eker Bakkaloğlu	ICS LAB
10:40-11:30	Microbiology LAB: Examination of helminths and medically important arthropods- Group A	Dr. Mümtaz Güran	Multidisciplinary Lab.
	ICS-2 BCS: Suturing Group B (1-2)	Dr. Zehra Gültekin Dr. Amber Eker Bakkaloğlu	ICS LAB
11:40-12:30	Microbiology LAB: Examination of helminths and medically important arthropods- Group A	Dr. Mümtaz Güran	Multidisciplinary Lab.
	ICS-2 BCS: Suturing Group B (1-2)	Dr. Zehra Gültekin Dr. Amber Eker Bakkaloğlu	ICS LAB
13:40-14:30	ICS-2 EBM: RPW – Material and Methods part of a Research Proposal Contents of Material and Methods	Dr. İlke Akçay	IN CLASS
14:40-15:30	ICS-2 EBM: RPW – Material and Methods part of a Research Proposal Study population, sample and sampling methods	Dr. İlke Akçay	IN CLASS
15:40-16:30	RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses	Dr. Mümtaz Güran	IN CLASS

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16:40-17:30	Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus	Dr. Mümtaz Güran	IN CLASS
Wednesday	08 October		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
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	ICS-2 EBM: RPW – Material and Methods part of a Research Proposal Data analysis methods	Dr. İlke Akçay	IN CLASS
14:40-15:30	ICS-2 EBM: RPW – Material and Methods part of a Research Proposal Variables	Dr. İlke Akçay	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		
Thursday	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		

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Friday	10 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 (13 – 17 October, 2025)			
	Calendar Days	Instructor Name	Lecture Platform
Monday	13 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	Elective Courses		
16:40-17:30	Elective Courses		
Tuesday	14 October		
08:40-09:30	PRACTICAL EXAM		
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30			

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14:40-15:30			
15:40-16:30			
16:40-17:30			
Wednesday	15 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	16 October		
08:40-09:30	Y2C1 COMMITTEE EXAM		
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30	Committee Exam Feedback Session	Dr. Mümtaz Güran Dr. Halil Eren Sakallı	IN CLASS
14:40-15:30			
15:40-16:30			
16:40-17:30			
Friday	17 October		
08:40-09:30			
09:40-10:30			
10:40-11:30			
11:40-12:30			

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13:40-14:30			
14:40-15:30			
15:40-16:30			
16:40-17:30			