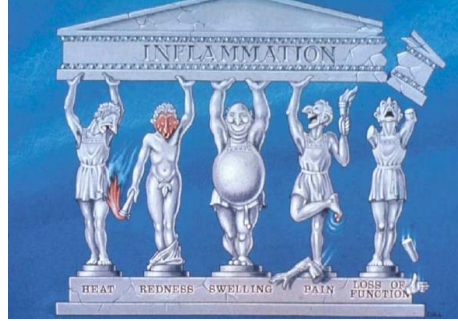


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Tıp Fakültesi

**MARMARA UNIVERSITY**  
**EASTERN MEDITERRANEAN UNIVERSITY**  
**INTERNATIONAL MEDICAL SCHOOL**



**CELL AND TISSUE INJURY - I**  
**YEAR 2 COURSE 1**  
**Sep 02<sup>nd</sup>, 2024 – October 17<sup>th</sup>, 2024**

**Year 2 Coordinators**

Prof. Özgür Kasımay ÇAKIR & Assist. Prof. M. Burak AKSU & Assoc. Prof. Mümtaz GÜRAN

**Module Coordinators**

Prof. Rezzan GÜLHAN & Assoc. Prof. Nilüfer GÜZOĞLU

**Coordinators of Multidisciplinary Students' Lab.**

Prof. Betül YILMAZ & Assoc. Prof. Ergül Mutlu  
ALTUNDAĞ

**Coordinators of Clinical Skill Lab.**

Prof. Pemra ÜNALAN & Assist. Prof. Bülent SEZGİN

**Coordinators of ICS Res. Lab.**

Prof. Pemra ÜNALAN & Assist. Prof. İlke AKÇAY

**Vice-Chief Coordinators**

**Assessment**

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

**Students' Affairs**

Asist. Prof. Can ERZİK

**Chief Coordinators**

Prof. Hasan R. YANANLI & Assist. Prof. Masoud  
AFSHANI

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

Prof. Harika ALPAY

**Coordinator of the Joint Program**

Prof. Ümit Süleyman ŞEHİRLİ

**Dean (EMU) (a)**

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 and performance during the module  
**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 İlder Güney, Assoc. Prof., Medical Genetics  
 Alper Yıldırım, Prof., Physiology  
 Arzu Akşit İlki, Prof., Medical Microbiology  
 Banu Aydın Omay, Assoc. Prof., Biophysics  
 Çiğdem Ataizi Çelikel, Prof., Medical Pathology  
 Ergül Mutlu Altundağ, Assoc., Prof., Medical Biochemistry  
 Emine Özerinç, Instructor of Turkish Language  
 Goncağül Haklar, Prof., Biochemistry  
 Halil Eren Sakallı, Assist. Prof., Pharmacology  
 Halil Turgut Turoğlu, Prof., Nuclear Medicine  
 Handan Kaya, Prof., Medical Pathology  
 Hasan Topar, Assist. Prof., Pathology

Mehmet Burak Aksu, Assist. Prof., Medical Microbiology  
 Mümtaz Güran, Assoc. Prof., Microbiology  
 Pınar Ata, Prof., Medical Genetics  
 Pınar Mega Tiber, Assoc. Prof., Biophysics  
 Pemra Cöbek Ünalın, Prof., Family Medicine  
 Rezzan Gülhan, Prof., Pharmacology  
 Salih Özgüven, , Assoc., Prof., Nuclear Medicine  
 Saliha Serap Çifçili, Assoc. Professor of Family Medicine  
 Süheyla Bozkurt, Prof., Pathology  
 Tunç Akkoç, Prof., Immunology  
 Ufuk Hasdemir, Prof., Microbiology  
 Zafer Gören, Prof., Pharmacology

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Hızır Kurtel, Prof., Physiology  
Hülya Cabadak, Prof., Biophysics  
İlke Akçay, Assist. Prof., Biostatistics  
İpek Erbarut, Assoc. Prof., Pathology

### **READING / STUDYING MATERIALS**

- Basics and Clinical Pharmacology (Bertram G Katzung).
- Clinical Pharmacology (Laurence DR, Bennet PN).
- Pharmacological Basis of Therapeutics (Goddman & Gilman's).
- Radiation protection, Ch.5 (Mary Alice Statkiewicz)
- Radiobiology for the radiologist (Eric J. Hall)
- Physics of Life Sciences (Alan H. Cromer)
- Clinical Biophysics (Anbar)
- Radiologic Science for Technologist (S.C. Bushong)
- Textbook of Physiology (Guyton AC).
- Basic Pathology (Stanley L. Robbins, Marcia Angel, Vinay Kumar).
- Histology and Cell Biology: An Introduction to Pathology (Abraham L. Kierszenbaum).
- Review Medical Microbiology (Ernest Jawetz et al.).
- Medical Microbiology (Cedric Mims et al.).
- Review of Medical Microbiology (Patric R. Murray, Ken S. Rosenthal).
- Cellular and Molecular Immunology 5th Edition (Abbas, Lichtman).
- Kuby Immunology 4th Edition (Goldsby, Kindt, Osborne).
- Immunobiology 6th Edition (Janeway, Travers, Walport, Schlomchik).
- Immunology, Infection and Immunity (Pier, Lyczak, Wetzler)

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Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Biochemistry	4		4
Biophysics	12		12
Family Medicine	2		2
Immunology	12		12
Microbiology	25	6	31
Nuclear Medicine	2		2
Pathology	17		17
Pharmacology	16	3	19
Physiology	5		5
Medical Genetics	7		7
<b>Subtotal</b>	<b>102</b>	<b>9</b>	<b>111</b>
<b>ICS-2: Research Proposal Workshop and Student Research Activity</b>			
<b>ICS-2: Basic Clinical Skills &amp; Introduction to First Aid course</b>			
<b>Turkish for Medical Students-III</b>	24		24
<b>Turkish for Medical Students-III (Interactive session)</b>			
<b>Total</b>	<b>126</b>	<b>9</b>	<b>135</b>

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		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	
<b>Week - 1 (02-06 September, 2024)</b>				
	<b>Calendar Days</b>		<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>02 September</b>			
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özeriç	IN CLASS	
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özeriç	IN CLASS	
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özeriç	IN CLASS	
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özeriç	IN CLASS	
13:40-14:30				
14:40-15:30	STUDY TIME			
15:40-16:30	STUDY TIME			
16:40-17:30	STUDY TIME			
<b>Tuesday</b>	<b>03 September</b>			
08:40-09:30	STUDY TIME			
09:40-10:30	Introduction to the course and opening lecture	Dr. Mümtaz Güran	IN CLASS	
10:40-11:30	Introduction to ICS-2	Dr. Pemra Cöbek Ünalın	IN CLASS	
11:40-12:30	Introduction to Family Medicine	Dr. Pemra Cöbek Ünalın	IN CLASS	
13:40-14:30	Microbiology of water, milk and air	Dr. Mümtaz Güran	IN CLASS	
14:40-15:30	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ	IN CLASS	
15:40-16:30	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ	IN CLASS	
16:40-17:30	STUDY TIME			
<b>Wednesday</b>	<b>04 September</b>			
08:40-09:30	Molecular mechanisms of necrosis and apoptosis	Dr. Ahmet Arman	MS TEAMS	
09:40-10:30	Signal transduction of inflammation	Dr. Ahmet Arman	MS TEAMS	
10:40-11:30	Biochemical aspect of cell death	Dr. Goncagül Haklar	MS TEAMS	
11:40-12:30	Biochemical aspect of cell death	Dr. Goncagül Haklar	MS TEAMS	

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13:40-14:30	Pathogenesis of parasitic disease	Dr. Mümtaz Güran	IN CLASS
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>05 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç	IN CLASS
13:40-14:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç	IN CLASS
14:40-15:30	Introduction to innate immune system	Dr. Tunç Akkoç	IN CLASS
15:40-16:30	Major histocompatibility complex (MHC) molecules, antigen processing and presentation	Dr. Tunç Akkoç	IN CLASS
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>06 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	Basic principles of drug toxicity	Dr. Halil Eren Sakallı	IN CLASS
13:40-14:30	Blood and tissue protozoa	Dr. Mümtaz Güran	IN CLASS
14:40-15:30	Bioterrorism: a global threat	Dr. Mümtaz Güran	IN CLASS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Week - 2 (09-13 September, 2024)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>

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<b>Monday</b>	<b>09 September</b>		
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		
<b>Tuesday</b>	<b>10 September</b>		
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	Introduction to pathology	Dr. Süheyla Bozkurt	IN CLASS
13:40-14:30	Pathology of hypersensitivity reactions	Dr. Süheyla Bozkurt	IN CLASS
14:40-15:30	Basic principles of immunopathology	Dr. Süheyla Bozkurt	IN CLASS
15:40-16:30	Pathology of autoimmune disorders	Dr. Süheyla Bozkurt	IN CLASS
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>11 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Effects of the electromagnetic waves on human health	Dr. Banu Aydın Omay	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	Mechanism of viral pathogenesis	Dr. Ufuk Hasdemir	IN CLASS
14:40-15:30	DNA viruses: Herpes viruses	Dr. Ufuk Hasdemir	IN CLASS
15:40-16:30	RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses	Dr. Ufuk Hasdemir	IN CLASS



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16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>12 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Cestodes and trematodes	Dr. Mümtaz Güran	IN CLASS
11:40-12:30	Intestinal and urogenital protozoa	Dr. Mümtaz Güran	IN CLASS
13:40-14:30	Pharmacotherapy in parasitic infections	Dr. Halil Eren Sakallı	IN CLASS
14:40-15:30	RNA viruses: Retroviruses and HIV	Dr. Ufuk Hasdemir	IN CLASS
15:40-16:30	Hepatitis viruses	Dr. Ufuk Hasdemir	IN CLASS
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>13 September</b>		
08:40-09:30	Introduction to 2nd Year Research: Evaluation of ICS-1 Research Projects	Dr. İlke Akçay	IN CLASS
09:40-10:30	Introduction to 'MEDN263 Evidence Based Medicine' Course Credit, Assessment, Content and Ethical Approval Process	Dr. İlke Akçay	IN CLASS
10:40-11:30	Evidence based medicine	Dr. İlke Akçay	IN CLASS
11:40-12:30	Theme of 2nd year research projects: Health and Community	Dr. İlke Akçay	IN CLASS
13:40-14:30	Cellular aging and death	Dr. Pınar Ata	IN CLASS
14:40-15:30	Immunogenetics of transplantation	Dr. Pınar Ata	IN CLASS
15:40-16:30	Immunogenetics of transplantation	Dr. Pınar Ata	IN CLASS
16:40-17:30	STUDY TIME		
<b>Week - 3 (16-20 September, 2024)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>16 September</b>		
08:40-09:30	<b>Turkish For Medical Students-III (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS
09:40-10:30	<b>Turkish For Medical Students-III (Foreign Students)</b>	Inst. Emine Özerinç	IN CLASS

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10:40-11:30	<b>Turkish For Medical Students-III</b> (Foreign Students)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	<b>Turkish For Medical Students-III</b> (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		
<b>Tuesday</b>	<b>17 September</b>		
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	Radiation protection	Dr. Hülya Cabadak	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	RNA viruses: Orthomyxoviruses and Paramyxoviruses	Dr. Mümtaz Güran	IN CLASS
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>18 September</b>		
08:40-09:30	Radioactivity: the decay law; physical half-life, biological half-life	Dr. Pınar Mega Tiber	IN CLASS
09:40-10:30	Radioactivity: the decay law; physical half-life, biological half-life	Dr. Pınar Mega Tiber	IN CLASS
10:40-11:30	Types of radiation	Dr. Pınar Mega Tiber	IN CLASS
11:40-12:30	Types of radiation	Dr. Pınar Mega Tiber	IN CLASS
13:40-14:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç	IN CLASS
14:40-15:30	Structure and function of complement system	Dr. Tunç Akkoç	IN CLASS
15:40-16:30	RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses	Dr. Mümtaz Güran	IN CLASS

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16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>19 September</b>		
08:40-09:30	Dosimetry, basic concepts	Dr. Pinar Mega Tiber	IN CLASS
09:40-10:30	Electromagnetic spectrum	Dr. Pinar Mega Tiber	IN CLASS
10:40-11:30	Interaction of radiation with matter	Dr. Pinar Mega Tiber	IN CLASS
11:40-12:30	Interaction of radiation with matter	Dr. Pinar Mega Tiber	IN CLASS
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	Antiseptics and disinfectants	Dr. Halil Eren Sakallı	IN CLASS
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>20 September</b>		
08:40-09:30	Research Proposal Workshop (RPW) – Type of Research Studies Descriptive Studies (Case-reports, surveillance, literature reviews)	Dr. İlke Akçay	IN CLASS
09:40-10:30	Research Proposal Workshop (RPW) – Type of Research Studies Cross-sectional studies	Dr. İlke Akçay	IN CLASS
10:40-11:30	Research Proposal Workshop (RPW) – Type of Research Studies Case-control and Cohort studies	Dr. İlke Akçay	IN CLASS
11:40-12:30	Research Proposal Workshop (RPW) – Type of Research Studies Experimental studies, Systematic reviews and Meta-analyses	Dr. İlke Akçay	IN CLASS
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		
<b>Week – 4 (23-27 September, 2024)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>

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<b>Monday</b>	<b>23 September</b>		
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		
<b>Tuesday</b>	<b>24 September</b>		
08:40-09:30	Pharmacogenetics	Dr. Ahmet İlder Güney	MS TEAMS
09:40-10:30	Pharmacogenetics	Dr. Ahmet İlder Güney	MS TEAMS
10:40-11:30	Adaptive cell reactions and abnormal accumulations	Dr. İpek Erbarut	MS TEAMS
11:40-12:30	<b>Pathology LAB:</b> General principals of macroscopic evaluation (slide lecture)	Dr. İpek Erbarut	MS TEAMS
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
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>25 September</b>		
08:40-09:30	General pharmacokinetic principles-3--Metabolism and elimination of drugs	Dr. Rezzan Gülhan	IN CLASS
09:40-10:30	General pharmacokinetic principles-4--Kinetics of drug movement in body	Dr. Rezzan Gülhan	IN CLASS
10:40-11:30	Mechanism of drug action	Dr. Zafer Gören	IN CLASS
11:40-12:30	Mechanism of drug action	Dr. Zafer Gören	IN CLASS
13:40-14:30	Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus	Dr. Mehmet Burak Aksu	IN CLASS

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14:40-15:30	Human microbiota	Dr. Mehmet Burak Aksu	IN CLASS
15:40-16:30	<b>Microbiology LAB:</b> Human microbiota-A	Dr. Mehmet Burak Aksu- Dr.Mümtaz Güran	Multidisciplinary Lab.
16:40-17:30	<b>Microbiology LAB:</b> Human microbiota-B	Dr. Mehmet Burak Aksu- Dr.Mümtaz Güran	Multidisciplinary Lab.
<b>Thursday</b>	<b>26 September</b>		
08:40-09:30	Host parasite interactions	Dr. Mehmet Burak Aksu	IN CLASS
09:40-10:30	Host parasite interactions	Dr. Mehmet Burak Aksu	IN CLASS
10:40-11:30	<b>Microbiology LAB:</b> Human microbiota-B	Dr. Mehmet Burak Aksu Dr.Mümtaz Güran	Multidisciplinary Lab.
11:40-12:30	<b>Microbiology LAB:</b> Human microbiota-A	Dr. Mehmet Burak Aksu Dr.Mümtaz Güran	Multidisciplinary Lab.
13:40-14:30	Microbial toxins	Dr. Mehmet Burak Aksu	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	Autocoids	Dr. Zafer Gören	IN CLASS
<b>Friday</b>	<b>27 September</b>		
08:40-09:30	RPW – Introduction part of a Research Proposal Topic, title, literature review	Dr. İlke Akçay	IN CLASS
09:40-10:30	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	Group formation and Warm-up activities	Dr. İlke Akçay	IN CLASS
11:40-12:30	Practical session: Group study to discuss about candidate topics	Dr. İlke Akçay	IN CLASS
13:40-14:30	Practical session: Group study to discuss about candidate topics	Dr. İlke Akçay	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		
<b>Week – 5 (30 September – 04 October, 2024)</b>			

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	Calendar Days	Instructor Name	Lecture Platform
<b>Monday</b>	<b>30 September</b>		
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		
<b>Tuesday</b>	<b>01 October</b>		
08:40-09:30	Physiology of pain	Dr. Alper Yıldırım	MS TEAMS
09:40-10:30	Patient with fever and rash	Dr. Saliha Serap Çifçili	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
13:40-14:30	Acute inflammatory response	Dr. Hasan Toper	IN CLASS
14:40-15:30	Acute inflammatory response	Dr. Hasan Toper	IN CLASS
15:40-16:30	Tissue renewal and repair: regeneration, healing and fibrosis	Dr. Hasan Toper	IN CLASS
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>2 October</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	<b>Pathology LAB:</b> Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -A	Dr. Hasan Toper	Multidisciplinary Lab.
10:40-11:30	<b>Pathology LAB:</b> Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs -A	Dr. Hasan Toper	Multidisciplinary Lab.

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11:40-12:30	<b>Pathology LAB:</b> Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs - <b>A</b>	Dr. Hasan Toper	Multidisciplinary Lab.
13:40-14:30	<b>Pathology LAB:</b> Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs - <b>B</b>	Dr. Hasan Toper	Multidisciplinary Lab.
14:40-15:30	<b>Pathology LAB:</b> Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs - <b>B</b>	Dr. Hasan Toper	Multidisciplinary Lab.
15:40-16:30	<b>Pathology LAB:</b> Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs - <b>B</b>	Dr. Hasan Toper	Multidisciplinary Lab.
16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>3 October</b>		
08:40-09:30	Cytokines	Dr. Tunç Akkoç	IN CLASS
09:40-10:30	Cytokines	Dr. Tunç Akkoç	IN CLASS
10:40-11:30	<b>Microbiology LAB:</b> Examination of protozoa - <b>A</b>	Dr. Mümtaz Güran	Multidisciplinary Lab.
11:40-12:30	<b>Microbiology LAB:</b> Examination of protozoa - <b>A</b>	Dr. Mümtaz Güran	Multidisciplinary Lab.
13:40-14:30	<b>Microbiology LAB:</b> Examination of protozoa - <b>B</b>	Dr. Mümtaz Güran	Multidisciplinary Lab.
14:40-15:30	<b>Microbiology LAB:</b> Examination of protozoa - <b>B</b>	Dr. Mümtaz Güran	Multidisciplinary Lab.
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>4 October</b>		
08:40-09:30	Drug-induced immune response and antiallergic treatment	Dr. Halil Eren Sakallı	IN CLASS
09:40-10:30	Development of T cells, T lymphocyte signaling mechanisms and activation	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	ICS-2 Research: 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.	
13:40-14:30	RPW – Material and Methods part of a Research Proposal Contents of Material and Methods	Dr. İlke Akçay	IN CLASS
14:40-15:30	RPW – Material and Methods part of a Research Proposal Study population, sample and sampling methods	Dr. İlke Akçay	IN CLASS
15:40-16:30	RPW – Material and Methods part of a Research Proposal Important points in choosing the appropriate sampling method	Dr. İlke Akçay	IN CLASS
16:40-17:30	RPW – Material and Methods part of a Research Proposal Source of data (Data collection tools)	Dr. İlke Akçay	IN CLASS
<b>Week – 6 (07 – 11 October, 2024)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>07 October</b>		
08:40-09:30	<b>Turkish For Medical Students-III</b> (Foreign Students)	Inst. Emine Özeriç	IN CLASS
09:40-10:30	<b>Turkish For Medical Students-III</b> (Foreign Students)	Inst. Emine Özeriç	IN CLASS
10:40-11:30	<b>Turkish For Medical Students-III</b> (Foreign Students)	Inst. Emine Özeriç	IN CLASS
11:40-12:30	<b>Turkish For Medical Students-III</b> (Foreign Students)	Inst. Emine Özeriç	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		
<b>Tuesday</b>	<b>08 October</b>		
08:40-09:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel	IN CLASS
09:40-10:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel	IN CLASS
10:40-11:30	Body temperature and its regulation	Dr. Hızır Kurtel	IN CLASS
11:40-12:30	Body temperature and its regulation	Dr. Hızır Kurtel	IN CLASS



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13:40-14:30	<b>Microbiology LAB:</b> Examination of helminths and medically important arthropods- <b>B</b>	Dr. Mümtaz Güran	Multidisciplinary Lab.
14:40-15:30	<b>Microbiology LAB:</b> Examination of helminths and medically important arthropods- <b>B</b>	Dr. Mümtaz Güran	Multidisciplinary Lab.
15:40-16:30	<b>Microbiology LAB:</b> Examination of helminths and medically important arthropods- <b>A</b>	Dr. Mümtaz Güran	Multidisciplinary Lab.
16:40-17:30	<b>Microbiology LAB:</b> Examination of helminths and medically important arthropods- <b>A</b>	Dr. Mümtaz Güran	Multidisciplinary Lab.
<b>Wednesday</b>	<b>09 October</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel	IN CLASS
11:40-12:30	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel	IN CLASS
13:40-14:30	Haemodynamic disorders	Dr. Çiğdem Ataizi Çelikel	IN CLASS
14:40-15:30	Pharmacotherapy of viral infections	Dr. Halil Eren Sakallı	IN CLASS
15:40-16:30	Pharmacotherapy of viral infections	Dr. Halil Eren Sakallı	IN CLASS
16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>10 October</b>		
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		
<b>Friday</b>	<b>11 October</b>		

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08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	<b>ICS-2 Research:</b> 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.	
13:40-14:30	RPW – Material and Methods part of a Research Proposal Variables	Dr. İlke Akçay	IN CLASS
14:40-15:30	RPW – Material and Methods part of a Research Proposal Data analysis methods	Dr. İlke Akçay	IN CLASS
15:40-16:30	RPW – Research ethics and Research integrity principles	Dr. İlke Akçay	IN CLASS
16:40-17:30	RPW – Research ethics and Research integrity principles	Dr. İlke Akçay	IN CLASS
<b>Week – 7 (14 – 18 October, 2024)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>14 October</b>		
08:40-09:30	<b>PRACTICAL EXAM</b>		
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		
<b>Tuesday</b>	<b>15 October</b>		
08:40-09:30	<b>PRACTICAL EXAM</b>		
09:40-10:30			
10:40-11:30			

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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		
<b>Wednesday</b>	<b>16 October</b>		
08:40-09:30	<b>Y3C1 COMMITTEE EXAM</b>		
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		
<b>Thursday</b>	<b>17 October</b>		
08:40-09:30	<b>Y2C1 COMMITTEE EXAM</b>		
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			
<b>Friday</b>	<b>18 October</b>		
08:40-09:30			

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09:40-10:30			
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