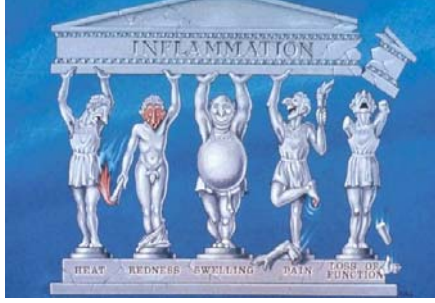


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<b>MARMARA UNIVERSITY</b>	
	<b>Tip Fakültesi</b>
<b>EASTERN MEDITERRANEAN UNIVERSITY</b>	
<b>INTERNATIONAL MEDICAL SCHOOL</b>	
	
<b>CELL AND TISSUE INJURY - I</b>	
<b>YEAR 2 COURSE 1</b>	
<b>September 05th, 2022 – October 19th, 2022</b>	
<b>Year 2 Coordinators</b>	
Prof. Özgür Kasımay ÇAKIR & Assist. Prof. M. Burak AKSU & Assoc. Prof. Mümtaz GÜRAN	
<b>Module Coordinators</b>	<b>Coordinators of Multidisciplinary Students' Lab.</b>
Prof. Rezzan GÜLHAN & Assist. Prof. Bülent SEZGİN	Prof. Betül YILMAZ & Assist. Prof. Ergül Mutlu ALTUNDAĞ
<b>Coordinators of Clinical Skill Lab.</b>	<b>Coordinators of ICS Res. Lab.</b>
Prof. Pemra ÜNALAN & Assoc. Prof. Nilüfer GÜZOĞLU	Prof. Pemra ÜNALAN & Assist. Prof. İlke AKÇAY
<b>Vice-Chief Coordinators</b>	
<b>Assessment</b>	<b>Students' Affairs</b>
Assist. Prof. Cevdet NACAR & Assist. Prof. H. Eren SAKALLI	Asist. Prof. Can ERZİK Inst. Ayşen ŞEKERİM
<b>Chief Coordinators</b>	<b>Coordinator of Medical Education Program Evaluation and Development Commission</b>
Prof. Hasan R. YANANLI & Assist. Prof. Masoud AFSHANI	Prof. Harika ALPAY
<b>Coordinator of the Joint Program</b>	
Prof. Ümit Süleyman ŞEHİRLİ	
<b>Dean (EMU)</b>	<b>Dean (MU)</b>
Prof. Nahide GÖKÇORA	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

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Biochemistry</li> <li>• Biophysics</li> <li>• Child Health and Diseases</li> <li>• Family Medicine</li> <li>• Immunology</li> <li>• Medical Genetics</li> </ul> | <ul style="list-style-type: none"> <li>• Microbiology</li> <li>• Nuclear Medicine</li> <li>• Pathology</li> <li>• Pharmacology</li> <li>• Physiology</li> </ul> |
|--|---|

#### LECTURERS / TUTORS

<p>Ahmet Arman, Prof., Medical Genetics                  Ahmet İter Güney, Assoc. Prof., Medical Genetics                  Alper Yıldırım, Assoc. Prof., Physiology                  Arzu Akşit İlki, Prof., Medical Microbiology                  Aslihan Engin Bozoğlu, Inst., German Language                  Banu Aydın Omay, Assoc. Prof., Biophysics                  Çiğdem Ataizi Çelikel, Prof., Pathology                  Ergül Mutlu Altundağ, , Assist. Professor of Biochemistry                  Goncagül Haklar, Prof., Medical Biochemistry                  Gülru Pemra Ünalın, Prof., Family Medicine                  Halil Eren Sakallı, Assist. Prof., Pharmacology                  Handan Kaya, Prof., Medical Pathology</p>	<p>Hülya Cabadak, Prof., Biophysics                  İpek Erbarut, Assoc. Prof., Pathology                  Mehmet Burak Aksu, Assist. Prof., Medical Microbiology                  Mustafa Batıbeniz, Inst., Arts and Crafts                  Mümtaz Güran, Assoc. Prof., Microbiology                  Nahide Gökçora, Prof., Nuclear Medicine                  Pınar Ata, Prof., Medical Genetics                  Pınar Mega Tiber, Assoc. Prof., Biophysics                  Rezzan Gülhan, Prof., Pharmacology                  Saliha Serap Çifçili, Assoc. Professor of Family Medicine                  Süheyla Bozkurt, Prof., Pathology                  Tunç Akkoç, Prof., Immunology</p>
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Hasan Toper, Assist. Prof., Pathology  
Hızır Kurtel , Prof., Physiology

Ufuk Hasdemir, Prof., Microbiology  
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).
- 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	3		3
Immunology	12		12
Medical Genetics	7		7
Microbiology	25	6	31
Nuclear Medicine	2		2
Pathology	16	4	20
Pharmacology	16		16
Physiology	5		5
<b>Subtotal</b>	<b>102</b>	<b>10</b>	<b>112</b>
<b>ICS-2: Research Proposal Workshop and Student Research Activity</b>	15	1	16
<b>ICS-2: Basic Clinical Skills &amp; Introduction to First Aid course</b>			
Turkish for Medical Students-III	24		24
Turkish for Medical Students-III <b>(Interactive session)</b>	19		19
Elective Courses	2		2
<b>Total</b>			

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		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	
<b>Week - 1 (05 – 09 September, 2022)</b>				
	<b>Calendar Days</b>		<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>05 September</b>			
08:40-09:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )		Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )		Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )		Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )		Inst. Emine Özerinç	IN CLASS
13:40-14:30	Introduction to the course and opening lecture		Dr. Mümtaz Güran	IN CLASS
14:40-15:30	Introduction to ICP-2		Dr. Gülru Pemra Ünalın	IN CLASS
15:40-16:30	Introduction to Family Medicine		Dr. Gülru Pemra Ünalın	IN CLASS
16:40-17:30	STUDY TIME			
<b>Tuesday</b>	<b>06 September</b>			
08:40-09:30	STUDY TIME			
09:40-10:30	STUDY TIME			
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
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	Turkish For Medical Students-III ( <b>Interactive session</b> )		Inst. Emine Özerinç	IN CLASS
16:40-17:30	Turkish For Medical Students-III ( <b>Interactive session</b> )		Inst. Emine Özerinç	IN CLASS
<b>Wednesday</b>	<b>07 September</b>			
08:40-09:30	Hepatitis viruses		Dr. Ufuk Hasdemir	IN CLASS
09:40-10:30	RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses		Dr. Ufuk Hasdemir	IN CLASS
10:40-11:30	RNA viruses: Retroviruses and HIV		Dr. Ufuk Hasdemir	IN CLASS
11:40-12:30	Introduction to pathology		Dr. Süheyla Bozkurt	IN CLASS

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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>Thursday</b>	<b>08 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Radioactivity: the decay law; physical half-life, biological halflife	Dr. Pınar Mega Tiber	IN CLASS
11:40-12:30	Radioactivity: the decay law; physical half-life, biological halflife	Dr. Pınar Mega Tiber	IN CLASS
13:40-14:30	Types of radiation	Dr. Pınar Mega Tiber	IN CLASS
14:40-15:30	Types of radiation	Dr. Pınar Mega Tiber	IN CLASS
15:40-16:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
16:40-17:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
<b>Friday</b>	<b>09 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Intestinal and urogenital protozoa	Dr. Mümtaz Güran	IN CLASS
10:40-11:30	Dosimetry, basic concepts	Dr. Pınar Mega Tiber	IN CLASS
11:40-12:30	Electromagnetic spectrum	Dr. Pınar Mega Tiber	IN CLASS
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	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Week - 2 (12 – 16 September, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>12 September</b>		

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08:40-09:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	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>13 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
13:40-14:30	Intestinal and tissue nematodes	Dr. Mümtaz Güran	IN CLASS
14:40-15:30	Intestinal and tissue nematodes	Dr. Mümtaz Güran	IN CLASS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>14 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Cestodes and trematodes	Dr. Mümtaz Güran	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		



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<b>Thursday</b>	<b>15 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	Biochemical aspect of cell death	Dr. Goncagül Haklar	MS TEAMS
11:40-12:30	Biochemical aspect of cell death	Dr. Goncagül Haklar	MS TEAMS
13:40-14:30	<b>ICS-2 Research:</b> Introduction and Orientation to ICS-2 Research: Theme, Assessment, Timeline and Schedule of the Year.	Dr. İlke Akçay	IN CLASS
14:40-15:30	<b>ICS-2 Research:</b> Feedback from the previous year	Dr. İlke Akçay	IN CLASS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>16 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Introduction to pharmacology	Dr. Rezzan Gülhan	IN CLASS
10:40-11:30	General pharmacokinetic principles-1	Dr. Rezzan Gülhan	IN CLASS
11:40-12:30	General pharmacokinetic principles-2	Dr. Rezzan Gülhan	IN CLASS
13:40-14:30	General pharmacokinetic principles-3	Dr. Rezzan Gülhan	IN CLASS
14:40-15:30	General pharmacokinetic principles- 4	Dr. Rezzan Gülhan	IN CLASS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Week - 3 (19 – 23 September, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>19 September</b>		
08:40-09:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
13:40-14:30	STUDY TIME		

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14:40-15:30	STUDY TIME		
15:40-16-30	STUDY TIME		
16:40-17-30	STUDY TIME		
<b>Tuesday</b>	<b>20 September</b>		
08:40-09:30	<b>ICS-2 Research:</b> Research Proposal Workshop (RPW) – Type of Research Studies Descriptive Studies (Case-reports, surveillance, literature reviews)	Dr. İlke Akçay	IN CLASS
09:40-10:30	<b>ICS-2 Research:</b> Research Proposal Workshop (RPW) – Type of Research Studies Cross-sectional studies	Dr. İlke Akçay	IN CLASS
10:40-11:30	<b>ICS-2 Research:</b> Research Proposal Workshop (RPW) – Type of Research Studies Case-control and Cohort studies	Dr. İlke Akçay	IN CLASS
11:40-12:30	<b>ICS-2 Research:</b> 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		
14:40-15:30	STUDY TIME		
15:40-16-30	STUDY TIME		
16:40-17-30	STUDY TIME		
<b>Wednesday</b>	<b>21 September</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	Microbial pathogenicity and virulence	Dr. Arzu Akşit İlki	MS TEAMS
14:40-15:30	Cultivation and identification of bacteria	Dr. Arzu Akşit İlki	MS TEAMS
15:40-16-30	STUDY TIME		
16:40-17-30	STUDY TIME		

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<b>Thursday</b>	<b>22 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Physiology of pain	Dr. Alper Yıldırım	IN CLASS
10:40-11:30	Microbiology of water, milk and air	Dr. Mümtaz Güran	IN CLASS
11:40-12:30	Basic principles of drug toxicity	Dr. Halil Eren Sakallı	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	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>23 September</b>		
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	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	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		
<b>Week – 4 (26– 30 September, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>26 September</b>		
08:40-09:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
13:40-14:30	STUDY TIME		
14:40-15:30	STUDY TIME		

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15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Tuesday</b>	<b>27 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Pharmacotherapy in parasitic infections	Dr. Halil Eren Sakallı	IN CLASS
10:40-11:30	DNA viruses: Adenoviruses, Parvoviruses, Papavoviruses, and Poxviruses	Dr. Mümtaz Güran	IN CLASS
11:40-12:30	RNA viruses: Orthomyxoviruses and Paramyxoviruses	Dr. Mümtaz Güran	IN CLASS
13:40-14:30	Molecular and radiobiological behavior	Dr. Hülya Cabadak	IN CLASS
14:40-15:30	Effects of ionizing radiation on the cell and organism	Dr. Hülya Cabadak	IN CLASS
15:40-16:30	Radiation protection	Dr. Hülya Cabadak	IN CLASS
16:40-17:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
<b>Wednesday</b>	<b>28 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Antiseptics and disinfectants	Dr. Halil Eren Sakallı	IN CLASS
10:40-11:30	RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses	Dr. Mümtaz Güran	IN CLASS
11:40-12:30	Bioterrorism: a global threat	Dr. Mümtaz Güran	IN CLASS
13:40-14:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	MS TEAMS
14:40-15:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	MS TEAMS
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
<b>Thursday</b>	<b>29 September</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	Cell injury and cell death	Dr. Handan Kaya	IN CLASS
10:40-11:30	Cell injury and cell death	Dr. Handan Kaya	IN CLASS
11:40-12:30	Chronic inflammatory response	Dr. Handan Kaya	IN CLASS

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13:40-14:30	Transplantation pathology	Dr. Handan Kaya	IN CLASS
14:40-15:30	Amyloidosis	Dr. Handan Kaya	IN CLASS
15:40-16:30	Adaptive cell reactions and abnormal accumulations	Dr. İpek Erbarut	IN CLASS
16:40-17:30	<b>Pathology LAB:</b> General principals of macroscopic evaluation (slide lecture)	Dr. İpek Erbarut	IN CLASS
<b>Friday</b>	<b>30 September</b>		
08:40-09:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özeriç	IN CLASS
09:40-10:30	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özeriç	IN CLASS
10:40-11:30	<b>ICS-2 Research:</b> RPW – Introduction part of a Research Proposal Topic, title, literature review	Dr. İlke Akçay	IN CLASS
11:40-12:30	<b>ICS-2 Research:</b> 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
13:40-14:30	Haemodynamic disorders	Dr. Çiğdem Ataizi Çelikel	IN CLASS
14:40-15:30	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel	IN CLASS
15:40-16:30	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel	IN CLASS
16:40-17:30	STUDY TIME		
<b>Week – 5 (03– 07 October, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>03 October</b>		
08:40-09:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özeriç	IN CLASS
09:40-10:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özeriç	IN CLASS
10:40-11:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özeriç	IN CLASS
11:40-12:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özeriç	IN CLASS
13:40-14:30	Introduction to chemotherapeutics	Dr. Rezzan Gülhan	IN CLASS
14:40-15:30	Patient with fever and rash	Dr. Saliha Serap Çifçili	MS TEAMS
15:40-16:30	Pharmacogenetics	Dr. Ahmet İlter Güney	MS TEAMS
16:40-17:30	Pharmacogenetics	Dr. Ahmet İlter Güney	MS TEAMS

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<b>Tuesday</b>	<b>04 October</b>		
08:40-09:30	<b>ICS-2 Research:</b> RPW – Material and Methods part of a Research Proposal Contents of Material and Methods	Dr. İlke Akçay	IN CLASS
09:40-10:30	<b>ICS-2 Research:</b> RPW – Material and Methods part of a Research Proposal Study population, sample and sampling methods	Dr. İlke Akçay	IN CLASS
10:40-11:30	<b>ICS-2 Research:</b> 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	<b>ICS-2 Research:</b> RPW – Material and Methods part of a Research Proposal Source of data (Data collection tools)	Dr. İlke Akçay	IN CLASS
13:40-14:30	<b>Microbiology LAB:</b> Examination of protozoa ( <b>Group A</b> )	Dr. Mümtaz Güran	IN CLASS
	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özeriç	IN CLASS
14:40-15:30	<b>Microbiology LAB:</b> Examination of protozoa ( <b>Group A</b> )	Dr. Mümtaz Güran	IN CLASS
	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özeriç	IN CLASS
15:40-16:30	<b>Microbiology LAB:</b> Examination of protozoa ( <b>Group B</b> )	Dr. Mümtaz Güran	IN CLASS
16:40-17:30	<b>Microbiology LAB:</b> Examination of protozoa ( <b>Group B</b> )	Dr. Mümtaz Güran	IN CLASS
<b>Wednesday</b>	<b>05 October</b>		
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	Application of nuclear medicine and radiotherapy	Dr. Nahide Gökçora	IN CLASS
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>Thursday</b>	<b>06 October</b>		

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08:40-09:30	Tissue and organ response to radiation and genetic effects of radiation	Dr. Nahide Gökçora	IN CLASS
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 - <b>A</b>	Dr. Hasan Toper	IN CLASS
	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
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 - <b>A</b>	Dr. Hasan Toper	IN CLASS
	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
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	IN CLASS
	Turkish For Medical Students-III ( <b>Interactive session</b> )	Inst. Emine Özerinç	IN CLASS
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	IN CLASS
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	IN CLASS
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	IN CLASS
16:40-17:30	STUDY TIME		
<b>Friday</b>	<b>07 October</b>		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel	IN CLASS
11:40-12:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel	IN CLASS
13:40-14:30	Body temperature and its regulation	Dr. Hızır Kurtel	IN CLASS
14:40-15:30	Body temperature and its regulation	Dr. Hızır Kurtel	IN CLASS
15:40-16:30	Drug-induced immune response and antiallergic treatment	Dr. Halil Eren Sakallı	IN CLASS
16:40-17:30	STUDY TIME		

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<b>Week – 6 (10– 14 October, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>10 October</b>		
08:40-09:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III ( <b>Foreign Students</b> )	Inst. Emine Özerinç	IN CLASS
13:40-14:30	STUDY TIME		
14:40-15:30	STUDY TIME		
15:40-16:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft ) (MDCN-125-Medical Anthropology) (GFMS -101 - German for Medical Students)	Dr. Cemal Gürkan Inst. Mustafa Batibenz Inst. Deren Çeker Inst. Aslihan Engin Bozoğlu	IN CLASS
16:40-17:30			
<b>Tuesday</b>	<b>11 October</b>		
08:40-09:30	<b>ICS-2 Research:</b> RPW – Material and Methods part of a Research Proposal Variables	Dr. İlke Akçay	IN CLASS
09:40-10:30	<b>ICS-2 Research:</b> RPW – Material and Methods part of a Research Proposal Data analysis methods	Dr. İlke Akçay	IN CLASS
10:40-11:30	<b>ICS-2 Research:</b> RPW – Research ethics and Research integrity principles	Dr. İlke Akçay	IN CLASS
11:40-12:30	<b>ICS-2 Research:</b> RPW – Research ethics and Research integrity principles	Dr. İlke Akçay	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	Human microbiota	Dr. Mehmet Burak Aksu	IN CLASS
16:40-17:30	Microbial toxins	Dr. Mehmet Burak Aksu	IN CLASS
<b>Wednesday</b>	<b>12 October</b>		



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08:40-09:30	STUDY TIME		
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	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç	IN CLASS
11:40-12:30	Development of T cells, T lymphocyte signaling mechanisms and activation	Dr. Tunç Akkoç	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	<b>Microbiology LAB: Human microbiota-A</b>	Dr. Mehmet Burak Aksu - Dr. Mümtaz Güran	IN CLASS
16:40-17:30	<b>Microbiology LAB: Human microbiota-B</b>	Dr. Mehmet Burak Aksu - Dr. Mümtaz Güran	IN CLASS
<b>Thursday</b>	<b>13 October</b>		
08:40-09:30	Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus	Dr. Mehmet Burak Aksu	IN CLASS
09:40-10:30	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu	IN CLASS
10:40-11:30	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu	IN CLASS
11:40-12:30	<b>Microbiology LAB: Human microbiota-A</b>	Dr. Mehmet Burak Aksu - Dr. Mümtaz Güran	IN CLASS
13:40-14:30	<b>Microbiology LAB: Human microbiota-B</b>	Dr. Mehmet Burak Aksu - Dr. Mümtaz Güran	IN CLASS
14:40-15:30	B Lymphocyte: Development and biology	Dr. Tunç Akkoç	IN CLASS
15:40-16:30	Cytokines	Dr. Tunç Akkoç	IN CLASS
16:40-17:30	Cytokines	Dr. Tunç Akkoç	IN CLASS
<b>Friday</b>	<b>14 October</b>		
08:40-09:30	Structure and function of complement system	Dr. Tunç Akkoç	IN CLASS
09:40-10:30	Bridging innate and adaptive immunity dendritic cells, NK cells, NKT cells and other innate-like T and B lineages	Dr. Tunç Akkoç	IN CLASS
10:40-11:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç	IN CLASS

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11:40-12:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç	IN CLASS
13:40-14:30	<b>Microbiology LAB:</b> Examination of helminths and medically important arthropods-A	Dr. Mehmet Burak Aksu - Dr. Mümtaz Güran	IN CLASS
14:40-15:30	<b>Microbiology LAB:</b> Examination of helminths and medically important arthropods-A	Dr. Mehmet Burak Aksu - Dr. Mümtaz Güran	IN CLASS
15:40-16:30	<b>Microbiology LAB:</b> Examination of helminths and medically important arthropods-B	Dr. Mehmet Burak Aksu - Dr. Mümtaz Güran	IN CLASS
16:40-17:30	<b>Microbiology LAB:</b> Examination of helminths and medically important arthropods-B	Dr. Mehmet Burak Aksu - Dr. Mümtaz Güran	IN CLASS
<b>Week – 7 (17– 21 October, 2022)</b>			
	<b>Calendar Days</b>	<b>Instructor Name</b>	<b>Lecture Platform</b>
<b>Monday</b>	<b>17 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>18 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		

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16:40-17:30	STUDY TIME		
<b>Wednesday</b>	<b>19 October</b>		
08:40-09:30	<b>Y2C1 THEORETICAL EXAM</b>		
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			
<b>Thursday</b>	<b>20 October</b>		
08:40-09:30			
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30			
14:40-15:30			
15:40-16:30			
16:40-17:30			
<b>Friday</b>	<b>21 October</b>		
08:40-09:30			
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30			
14:40-15:30			

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15:40-16-30			
16:40-17-30			