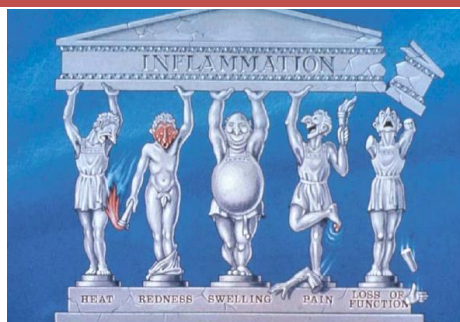




**MARMARA UNIVERSITY – EASTERN MEDITERRANEAN  
UNIVERSITY INTERNATIONAL MEDICAL SCHOOL**



**CELL AND TISSUE INJURY - I**  
**YEAR 2 COURSE 1**  
**Sep 03<sup>rd</sup>, 2018 – Oct 18<sup>th</sup>, 2018**

**Year 2 Coordinators**

Assoc. Prof., Özgür Kasımay ÇAKIR & Assist. Prof., Burak AKSU & Assist. Prof., Masoud AFSHANI

**Module Coordinators**

Prof., Özlem SARIKAYA & Inst. Berfu Çerçi ÖNGÜN

**Introduction to Clinician Skills (ICS) Coordinators**

Prof., Pemra ÜNALAN & Assist. Prof. Bülent SEZGIN

**Coordinators of Clinical Skill Lab.**

Prof., Pemra ÜNALAN & Assist. Prof. Bülent SEZGIN

**Coordinators of ICS Res. Lab.**

Prof., Sibel SAKARYA & Assist. Prof., İlke AKÇAY

**Coordinators of Multidisciplinary Students' Lab.**

Assoc. Prof., Betül KARADEMİR & Assist. Prof.,  
Mümtaz GÜRAN

**Coordinators of Assessment Unite**

Assist. Prof., Cevdet NACAR & Assist. Prof., Can  
ERZİK & Assist. Prof., Hasan TOPER & Assist. Prof., H.  
Eren SAKALLI & Assist. Prof., Masoud AFSHANI

**Vice-Chief Coordinators**

**Assessment**

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

**Students' Affairs**

Assist. Prof., Can ERZİK & Assist. Prof., İlke AKÇAY &  
Assist. Prof., Mümtaz GÜRAN

**Chief Coordinator**

Assoc. Prof., Hasan YANANLI & Assist. Prof.,  
Mümtaz GÜRAN

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

Prof., Berrak Ç. YEĞEN

**Educational Consultant**

Prof., Mehmet Ali GÜLPINAR

**Dean (EMU)**

Prof., Nahide GÖKÇORA

**Dean (MU)**

Prof., Hakan GÜNDÜZ

### 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 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

## 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
- ☐ Child Health and Diseases
- ☐ Family Medicine
- ☐ Immunology
- ☐ Medical Genetics

- ☐ Microbiology
- ☐ Nuclear Medicine
- ☐ Pathology
- ☐ Pharmacology
- ☐ Physiology

#### LECTURERS / TUTORS

Last Updated on October 09<sup>th</sup>, 2018  
Summary table updated April 22, 2025

Ahmet ARMAN, Professor of Medical Genetics  
Alper YILDIRIM, Assist. Professor of Physiology  
Atila KARAALP, Professor of Clinical Pharmacology  
Arzu İLKİ, Assoc. Professor of Medical Microbiology  
Ayşe GARİP, Assoc. Professor of Biophysics  
Ayşegül KARAHASAN, Professor of Microbiology  
Bülent Sezgin, Assist. Professor of Internal Medicine  
Burak AKSU, Assist. Professor of Medical Microbiology  
Cemal GÜRKAN, Instructor of Forensic Sciences  
Cihan TÜCCAR, Instructor of Emergency Medicine  
Çiğdem ATAİZİ, Professor of Pathology  
Deniz FILİNTE, Assist. Professor of Medical Pathology  
Didem RIFKI, Instructor of ENT  
Duygu GENÇALP, Instructor of Biochemistry  
Elif DAĞLI, Professor of Child Health and Disease  
Emine Özerinç, Instructor of Turkish Language  
Eren SAKALLI, Assist. Prof. of Clinical Pharmacology  
Ergül ALTUNDAĞ, Assist. Prof. of Biochemistry  
Funda EREN, Professor of Medical Pathology  
Goncagül HAKLAR, Professor of Medical Biochemistry  
Güner SÖYLELİR, Professor of Microbiology  
Handan KAYA, Professor of Medical Pathology  
Hasan Toper, Assist. Professor of Medical Pathology

Hızır KURTEL, Professor of Physiology  
Hülya CABADAK, Professor of Biophysics  
İlke AKÇAY, Assist. Professor of Biostatistics  
İlter GÜNEY, Assoc. Professor of Medical Genetics  
İpek ERBARUT, Assist. Professor of Medical Pathology  
İnci ALİCAN, Professor of Physiology  
Mümtaz GÜRAN, Assist. Prof. of Medical Microbiology  
Nahide GÖKÇORA, Professor of Nuclear Medicine  
Nevber İSTİLLOZLU, Instructor of Turkish Language  
Nilgün ÇERİKÇİOĞLU, Professor of Medical Microbiology  
Nurtane KARAGİL, Instructor of Arts and Crafts  
Nurver ÜLGER, Professor of Medical Microbiology  
Pelin BAĞCI, Assoc. Professor of Medical Pathology  
Pemra Ünalın, Professor of Family Medicine  
Pınar ATA, Professor of Medical Genetics  
Pınar Mega TİBER, Assoc. Professor of Biophysics  
Rezzan GÜLHAN, Professor of Pharmacology  
Serap ÇİFÇİLİ, Assoc. Professor of Family Medicine  
Süheyla BOZKURT, Professor of Pathology  
Tunç AKKOÇ, Professor of Immunology  
Ufuk HASDEMİR, Professor of Medical Microbiology  
Zafer GÖREN, Professor of 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)

Last Updated on October 09<sup>th</sup>, 2018  
**Summary table updated April 22, 2025**

SUMMARY OF THE COURSE 2.1			
Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Biochemistry	4		4
Biophysics	12		12
Child Health and Diseases	2		2
Immunology	12		12
Family Medicine	1		1
Microbiology	25	8	33
Nuclear Medicine	2		2
Pathology	16	7	23
Pharmacology	17		17
Physiology	5		5
Medical Genetics	7		7
<b>Subtotal</b>	<b>103</b>	<b>15</b>	<b>118</b>
ICS-2: Research Proposal Presentations	6		6
ICS-2: Students Research Activity	20		20
ICS-2: History Taking & Introduction to Physical Examination		16	16
TFMS 201- Turkish For Medical Students-III	22		22
TFMS 201- Turkish For Medical Students-III (Interactive session for Foreign Students)	8		8
Elective Course-II MDCN181 MDCN182 MDCN184	4		4
<b>TOTAL</b>	<b>163</b>	<b>31</b>	<b>194</b>

Last Updated on October 09<sup>th</sup> ,2018  
Summary table updated April 22, 2025

	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
<b>1<sup>st</sup> WEEK (03 Sep – 7 Sep, 2018)</b>		
<b>Monday</b>	<b>03 September</b>	
<b>08:40-09:30</b>	STUDY TIME	
<b>09:40-10:30</b>	STUDY TIME	
<b>10:40-11:30</b>	STUDY TIME	
<b>11:40-12:30</b>	Introduction to the course and opening lecture	Dr. Masoud Afshani
<b>13:40-14:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>14:40-15:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>15:40-16:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>16:40-17:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>Tuesday</b>	<b>04 September</b>	
<b>08:40-09:30</b>	Radioactivity: the decay law; physical half-life, biological half-life	Dr. Pınar Mega Tiber
<b>09:40-10:30</b>	Radioactivity: the decay law; physical half-life, biological half-life	Dr. Pınar Mega Tiber
<b>10:40-11:30</b>	Types of radiation	Dr. Pınar Mega Tiber
<b>11:40-12:30</b>	Types of radiation	Dr. Pınar Mega Tiber
<b>13:40-14:30</b>	Turkish For Medical Students-III (Interactive session for Foreign Students)	Inst. Emine Özerinç
<b>14:40-15:30</b>	Turkish For Medical Students-III (Interactive session for Foreign Students)	Inst. Emine Özerinç
<b>15:40-16:30</b>	STUDY TIME	
<b>16:40-17:30</b>	STUDY TIME	
<b>Wednesday</b>	<b>05 September</b>	
<b>08:40-09:30</b>	Turkish For Medical Students-III (Interactive session for Foreign Students)	Inst. Emine Özerinç
<b>09:40-10:30</b>	Turkish For Medical Students-III (Interactive session for Foreign Students)	Inst. Emine Özerinç
<b>10:40-11:30</b>	Microbial pathogenicity and virulence	Dr. Arzu İlki
<b>11:40-12:30</b>	Cultivation and identification of bacteria	Dr. Arzu İlki

Last Updated on October 09<sup>th</sup>, 2018  
Summary table updated April 22, 2025

<b>13:40-14:30</b>	Interaction of radiation with matter	Dr. Pınar Mega Tiber
<b>14:40-15:30</b>	Interaction of radiation with matter	Dr. Pınar Mega Tiber
<b>15:40-16:30</b>	Dosimetry, basic concepts	Dr. Pınar Mega Tiber
<b>16:40-17:30</b>	Electromagnetic spectrum	Dr. Pınar Mega Tiber
<b>Thursday</b>	<b>06 September</b>	
<b>08:40-09:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>09:40-10:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>10:40-11:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>11:40-12:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>13:40-14:30</b>	Biochemical aspect of cell death	Dr. Goncagül Haklar
<b>14:40-15:30</b>	Biochemical aspect of cell death	Dr. Goncagül Haklar
<b>15:40-16:30</b>	Introduction to innate immune system	Dr. Tunç Akkoç
<b>16:40-17:30</b>	Major histocompatibility complex (MHC) molecules, antigen processing and presentation	Dr. Tunç Akkoç
<b>Friday</b>	<b>07 September</b>	
<b>08:40-09:30</b>	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç
<b>09:40-10:30</b>	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç
<b>10:40-11:30</b>	Introduction to pharmacology	Dr. Atila Karaalp
<b>11:40-12:30</b>	Routes of drug administration	Dr. Atila Karaalp
<b>13:40-14:30</b>	Molecular mechanisms of necrosis and apoptosis	Dr. Ahmet Arman
<b>14:40-15:30</b>	Signal transduction of inflammation	Dr. Ahmet Arman
<b>15:40-16:30</b>	Turkish For Medical Students-III (Interactive session for Foreign Students)	Inst. Emine Özerinç
<b>16:40-17:30</b>	Turkish For Medical Students-III (Interactive session for Foreign Students)	Inst. Emine Özerinç
	<b>2<sup>nd</sup> Week (Sep 10-Sep 14, 2017)</b>	
<b>Monday</b>	<b>10 September</b>	
<b>08:40-09:30</b>	STUDY TIME	

Last Updated on October 09<sup>th</sup>,2018  
Summary table updated April 22, 2025

<b>09:40-10:30</b>	STUDY TIME	
<b>10:40-11:30</b>	STUDY TIME	
<b>11:40-12:30</b>	STUDY TIME	
<b>13:40-14:30</b>	Health effects of tobacco	Dr. Elif Dağlı
<b>14:40-15:30</b>	Health effects of tobacco	Dr. Elif Dağlı
<b>15:40-16:30</b>	Turkish For Medical Students-III (Interactive session for Foreign Students)	Inst. Emine Özerinç
<b>16:40-17:30</b>	Turkish For Medical Students-III (Interactive session for Foreign Students)	Inst. Emine Özerinç
<b>Tuesday</b>	<b>11 September</b>	
<b>08:40-09:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>09:40-10:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>10:40-11:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>11:40-12:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>13:40-14:30</b>	General pharmacokinetic principles-1	Dr. Rezzan Gülhan
<b>14:40-15:30</b>	General pharmacokinetic principles-2	Dr. Rezzan Gülhan
<b>15:40-16:30</b>	General pharmacokinetic principles-3	Dr. Rezzan Gülhan
<b>16:40-17:30</b>	General pharmacokinetic principles-4	Dr. Rezzan Gülhan
<b>Wednesday</b>	<b>12 September</b>	
<b>08:40-09:30</b>	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
<b>09:40-10:30</b>	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
<b>10:40-11:30</b>	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar



Last Updated on October 09<sup>th</sup>, 2018  
Summary table updated April 22, 2025

11:40-12:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
13:40-14:30	Pathogenesis of parasitic disease	Dr. Nurver Ülger
14:40-15:30	Blood and tissue protozoa	Dr. Nurver Ülger
15:40-16:30	Intestinal and urogenital protozoa	Dr. Nurver Ülger
16:40-17:30	STUDY TIME	
Thursday	13 September	
08:40-09:30	STUDY TIME	
09:40-10:30	Intestinal and tissue nematodes	Dr. Nurver Ülger
10:40-11:30	Intestinal and tissue nematodes	Dr. Nurver Ülger
11:40-12:30	Cestodes and trematodes	Dr. Nurver Ülger
13:40-14:30	Development of T cells, T lymphocyte signaling mechanisms and activation	Dr. Tunç Akkoç
14:40-15:30	Cell injury and cell death	Dr. Handan Kaya
15:40-16:30	Cell injury and cell death	Dr. Handan Kaya
16:40-17:30	STUDY TIME	
Friday	14 September	
08:40-09:30	STUDY TIME	
09:40-10:30	B Lymphocyte: Development and biology	Dr. Tunç Akkoç
10:40-11:30	Cytokines	Dr. Tunç Akkoç
11:40-12:30	Cytokines	Dr. Tunç Akkoç
13:40-14:30	Chronic inflammatory response	Dr. Handan Kaya
14:40-15:30	Transplantation pathology	Dr. Handan Kaya
15:40-16:30	Amyloidosis	Dr. Handan Kaya
16:40-17:30	STUDY TIME	
	3 <sup>rd</sup> Week (Sep 17-Sep 21, 2018)	
Monday	17 September	
08:40-09:30	STUDY TIME	

Last Updated on October 09<sup>th</sup>,2018  
Summary table updated April 22, 2025

09:40-10:30	<b>TURKISH PLACEMENT TEST</b>	
10:40-11:30		
11:40-12:30		
13:40-14:30	Autocoids	Dr. Zafer Gören
14:40-15:30	Autocoids	Dr. Zafer Gören
15:40-16:30	Autocoids	Dr. Zafer Gören
16:40-17:30	STUDY TIME	
<b>Tuesday</b>	<b>18 September</b>	
08:40-09:30	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
09:40-10:30	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
10:40-11:30	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
11:40-12:30	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
13:40-14:30	Mechanism of drug action	Dr. Zafer Gören
14:40-15:30	Mechanism of drug action	Dr. Zafer Gören
15:40-16:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
16:40-17:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>Wednesday</b>	<b>19 September</b>	
08:40-09:30	Host parasite interactions	Dr. Güner Söyledir
09:40-10:30	Host parasite interactions	Dr. Güner Söyledir
10:40-11:30	DNA viruses: Herpes viruses	Dr. Ufuk Hasdemir
11:40-12:30	Microbial toxins	Dr. Güner Söyledir
13:40-14:30	RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses	Dr. Ufuk Hasdemir
14:40-15:30	RNA viruses: Retroviruses and HIV	Dr. Ufuk Hasdemir
15:40-16:30	Mechanism of viral pathogenesis	Dr. Güner Söyledir
16:40-17:30	Hepatitis viruses	Dr. Güner Söyledir

Last Updated on October 09<sup>th</sup>, 2018  
Summary table updated April 22, 2025

<b>Thursday</b>	<b>20 September</b>	
<b>08:40-09:30</b>	STUDY TIME	
<b>09:40-10:30</b>	Basic principles of drug toxicity	Dr. Eren Sakallı
<b>10:40-11:30</b>	Introduction to chemotherapeutics	Dr. Eren Sakallı
<b>11:40-12:30</b>	Introduction to pathology	Dr. Funda Eren
<b>13:40-14:30</b>	<b>Pathology LAB:</b> General principals of macroscopic evaluation (slide lecture)	Dr. Funda Eren, Dr. Hasan Toper
<b>14:40-15:30</b>	Adaptive cell reactions and abnormal accumulations	Dr. İpek Erbarut
<b>15:40-16:30</b>	Acute inflammatory response	Dr. Hasan Toper
<b>16:40-17:30</b>	Acute inflammatory response	Dr. Hasan Toper
<b>Friday</b>	<b>21 September</b>	
<b>08:40-09:30</b>	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
<b>09:40-10:30</b>	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
<b>10:40-11:30</b>	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
<b>11:40-12:30</b>	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
<b>13:40-14:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>14:40-15:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>15:40-16:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>16:40-17:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	<b>4<sup>th</sup> Week (Sep 24-Sep 28, 2018)</b>	
<b>Monday</b>	<b>24 September</b>	
<b>08:40-09:30</b>	STUDY TIME	
<b>09:40-10:30</b>	STUDY TIME	
<b>10:40-11:30</b>	STUDY TIME	

Last Updated on October 09<sup>th</sup>, 2018  
Summary table updated April 22, 2025

<b>11:40-12:30</b>	STUDY TIME	
<b>13:40-14:30</b>	Molecular and radiobiological behavior	Dr. Hülya Cabadak
<b>14:40-15:30</b>	Effects of ionizing radiation on the cell and organism	Dr. Hülya Cabadak
<b>15:40-16:30</b>	Radiation protection	Dr. Hülya Cabadak
<b>16:40-17:30</b>		
<b>Tuesday</b>	<b>25 September</b>	
<b>08:40-09:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>09:40-10:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>10:40-11:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>11:40-12:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>13:40-14:30</b>	Tissue and organ response to radiation and genetic effects of radiation	Dr. Nahide Gökçora
<b>14:40-15:30</b>	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ
<b>15:40-16:30</b>	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ
<b>16:40-17:30</b>	STUDY TIME	
<b>Wednesday</b>	<b>26 September</b>	
<b>08:40-09:30</b>	Tissue renewal and repair: regeneration, healing and fibrosis	Dr. Pelin Bağcı
<b>09:40-10:30</b>	<b>Pathology LAB:</b> Cell response to injury and adaptive cell reactions	Dr. Pelin Bağcı, Dr. Hasan Toper
<b>10:40-11:30</b>	<b>Pathology LAB:</b> Cell response to injury and adaptive cell reactions	Dr. Pelin Bağcı, Dr. Hasan Toper
<b>11:40-12:30</b>	<b>Pathology LAB:</b> Cell response to injury and adaptive cell reactions	Dr. Pelin Bağcı, Dr. Hasan Toper
<b>13:40-14:30</b>	<b>Pathology LAB:</b> Changes in the size, consistency, colour, and composition of organs-A	Dr. Pelin Bağcı, Dr. Hasan Toper
<b>14:40-15:30</b>	<b>Pathology LAB:</b> Changes in the size, consistency, colour, and composition of organs-A	Dr. Pelin Bağcı, Dr. Hasan Toper
<b>15:40-16:30</b>	<b>Pathology LAB:</b> Changes in the size, consistency, colour, and composition of organs-A	Dr. Pelin Bağcı, Dr. Hasan Toper

Last Updated on October 09<sup>th</sup>,2018  
Summary table updated April 22, 2025

16:40-17:30	STUDY TIME	
<b>Thursday</b>	<b>27 September</b>	
08:40-09:30	Pharmacogenetics	Dr. İlder Güney
09:40-10:30	Pharmacogenetics	Dr. İlder Güney
10:40-11:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel
11:40-12:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel
13:40-14:30	Cellular aging and death	Dr. Pınar Ata
14:40-15:30	Immunogenetics of transplantation	Dr. Pınar Ata
15:40-16:30	Immunogenetics of transplantation	Dr. Pınar Ata
16:40-17:30	Introduction to ICS-2	Dr. Bülent Sezgin
<b>Friday</b>	<b>28 September</b>	
08:40-09:30	STUDY TIME	
09:40-10:30	Antiseptics and disinfectants	Dr. Eren Sakallı
10:40-11:30	Drug-induced immune response and antiallergic treatment	Dr. Eren Sakallı
11:40-12:30	Application of nuclear medicine and radiotherapy	Dr. Nahide Gökçora
13:40-14:30	Hemodynamic disorders	Dr. Çiğdem Ataizi
14:40-15:30	Thromboembolic disease	Dr. Çiğdem Ataizi
15:40-16:30	Thromboembolic disease	Dr. Çiğdem Ataizi
16:40-17:30	STUDY TIME	
	<b>5<sup>th</sup> Week (Oct 01-Oct 05, 2018)</b>	
<b>Monday</b>	<b>01 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	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
14:40-15:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç

Last Updated on October 09<sup>th</sup>, 2018  
Summary table updated April 22, 2025

<b>15:40-16:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft For Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness And High Intensty Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoglu
<b>16:40-17:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft For Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness And High Intensty Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoglu
<b>Tuesday</b>	<b>02 October</b>	
<b>08:40-09:30</b>	<b>ICS-2: Student Research Activity</b>	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>09:40-10:30</b>	<b>ICS-2: Student Research Activity</b>	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>10:40-11:30</b>	<b>ICS-2: Student Research Activity</b>	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>11:40-12:30</b>	<b>ICS-2: Student Research Activity</b>	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>13:40-14:30</b>	Body temperature and its regulation	Dr. İnci Alican
<b>14:40-15:30</b>	Body temperature and its regulation	Dr. İnci Alican
<b>15:40-16:30</b>	<b>Microbiology LAB: Normal body flora-I</b>	Dr. Mümtaz Güran
<b>16:40-17:30</b>	<b>Microbiology LAB: Normal body flora-I</b>	Dr. Mümtaz Güran
<b>Wednesday</b>	<b>03 October</b>	
<b>08:40-09:30</b>	STUDY TIME	
<b>09:40-10:30</b>	DNA viruses: Adenoviruses, Parvoviruses, Papavoviruses, and Poxviruses	Dr. Ayşegül Karahasan
<b>10:40-11:30</b>	RNA viruses: Orthomyxoviruses and Paramyxoviruses	Dr. Ayşegül Karahasan
<b>11:40-12:30</b>	RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses	Dr. Ayşegül Karahasan
<b>13:40-14:30</b>	Physiology of pain	Dr. Alper Yıldırım
<b>14:40-15:30</b>	Bioterrorism: a global threat	Dr. Ayşegül Karahasan
<b>15:40-16:30</b>	<b>Microbiology LAB: Normal body flora-II</b>	Dr. Mümtaz Güran

Last Updated on October 09<sup>th</sup>,2018  
Summary table updated April 22, 2025

16:40-17:30	Microbiology LAB: Normal body flora-II	Dr. Mümtaz Güran
Thursday	04 October	
08:40-09:30	Microbiology of water, milk and air	Dr. Burak Aksu
09:40-10:30	Human microbiota	Dr. Burak Aksu
10:40-11:30	Pharmacotherapy in parasitic infections	Dr. Eren Sakallı
11:40-12:30	Effects of the electromagnetic waves on human health	Dr. Ayşe Garip
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
14:40-15:30	Structure and function of complement system	Dr. Tunç Akkoç
15:40-16:30	Laboratory diagnosis of viral infections	Dr. Burak Aksu
16:40-17:30	Laboratory diagnosis of viral infections	Dr. Burak Aksu
Friday	05 October	
08:40-09:30	Pharmacotherapy of viral infections	Dr. Eren Sakallı
09:40-10:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç
10:40-11:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç
11:40-12:30	Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus	Dr. Burak Aksu
13:40-14:30	Microbiology LAB: Examination of protozoa	Dr. Mümtaz Güran
14:40-15:30	Microbiology LAB: Examination of protozoa	Dr. Mümtaz Güran
15:40-16:30	Microbiology LAB: Examination of helminths and medically important arthropods	Dr. Burak Aksu
16:40-17:30	Microbiology LAB: Examination of helminths and medically important arthropods	Dr. Burak Aksu
6 <sup>th</sup> Week (Oct 08-Oct 12, 2018)		
Monday	08 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	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç

Last Updated on October 09<sup>th</sup> ,2018  
Summary table updated April 22, 2025

<b>14:40-15:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
<b>15:40-16:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft For Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness And High Intensty Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
<b>16:40-17:30</b>	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft For Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness And High Intensty Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
<b>Tuesday</b>	<b>09 October</b>	
<b>08:40-09:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>09:40-10:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>10:40-11:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>11:40-12:30</b>	ICS-2: Student Research Activity	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker
<b>13:40-14:30</b>	Patient with fever and rash	Dr. Serap Çiftçili
<b>14:40-15:30</b>	Basic principles of immunopathology	Dr. Süheyla Bozkurt
<b>15:40-16:30</b>	Pathology of hypersensitivity reactions	Dr. Süheyla Bozkurt
<b>16:40-17:30</b>	Pathology of autoimmune disorders	Dr. Süheyla Bozkurt
<b>Wednesday</b>	<b>10 October</b>	
<b>08:40-09:30</b>	STUDY TIME	
<b>09:40-10:30</b>	ICS-2: Research Proposal Presentations	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker, Dr. Eren Sakallı, Dr. Serap Çiftçili
<b>10:40-11:30</b>	ICS-2: Research Proposal Presentations	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker, Dr. Eren Sakallı, Dr. Serap Çiftçili
<b>11:40-12:30</b>	ICS-2: Research Proposal Presentations	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker, Dr. Eren Sakallı, Dr. Serap Çiftçili



Last Updated on October 09<sup>th</sup>,2018  
Summary table updated April 22, 2025

13:40-14:30	ICS-2: Research Proposal Presentations	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker, Dr. Eren Sakallı, Dr. Serap Çiftçili
14:40-15:30	ICS-2: Research Proposal Presentations	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker, Dr. Eren Sakallı, Dr. Serap Çiftçili
15:40-16:30	ICS-2: Research Proposal Presentations	Dr. İlke Akçay, Dr. Özge Cumaoğulları Eker, Dr. Eren Sakallı, Dr. Serap Çiftçili
16:40-17:30	STUDY TIME	
Thursday	11 October	
08:40-09:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
09:40-10:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
10:40-11:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
11:40-12:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
13:40-14:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
14:40-15:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
15:40-16:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar
16:40-17:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Hasan Toper, Dr. Didem Rıfkı, Dr. Cihan Tüccar

Last Updated on October 09<sup>th</sup> ,2018  
Summary table updated April 22, 2025

<b>Friday</b>	<b>12 October</b>	
<b>08:40-09:30</b>	STUDY TIME	
<b>09:40-10:30</b>	STUDY TIME	
<b>10:40-11:30</b>	STUDY TIME	
<b>11:40-12:30</b>	STUDY TIME	
<b>13:40-14:30</b>	STUDY TIME	
<b>14:40-15:30</b>	STUDY TIME	
<b>15:40-16:30</b>	STUDY TIME	
<b>16:40-17:30</b>	STUDY TIME	
	<b>7<sup>th</sup> Week (Oct 15-Oct 19, 2018)</b>	
<b>Monday</b>	<b>15 October</b>	
<b>08:40-09:30</b>	<b>PRACTICAL EXAM</b>	
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>	<b>PRACTICAL EXAM</b>	
<b>14:40-15:30</b>		
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		
<b>Tuesday</b>	<b>16 October</b>	
<b>08:40-09:30</b>	<b>PRACTICAL EXAM</b>	
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>	<b>PRACTICAL EXAM</b>	
<b>14:40-15:30</b>		
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		

Last Updated on October 09<sup>th</sup>, 2018  
**Summary table updated April 22, 2025**

<b>Wednesday</b>	<b>17 October</b>	
<b>08:40-09:30</b>	STUDY TIME	
<b>09:40-10:30</b>	STUDY TIME	
<b>10:40-11:30</b>	STUDY TIME	
<b>11:40-12:30</b>	STUDY TIME	
<b>13:40-14:30</b>	STUDY TIME	
<b>14:40-15:30</b>	STUDY TIME	
<b>15:40-16:30</b>	STUDY TIME	
<b>16:40-17:30</b>	STUDY TIME	
<b>Thursday</b>	<b>18 October</b>	
<b>08:40-09:30</b>	<b>Y2C1 THEORETICAL EXAM</b> <b>9:30 A.M.</b>	
<b>09:40-10:30</b>		
<b>10:40-11:30</b>		
<b>11:40-12:30</b>		
<b>13:40-14:30</b>		
<b>14:40-15:30</b>		
<b>15:40-16:30</b>		
<b>16:40-17:30</b>		