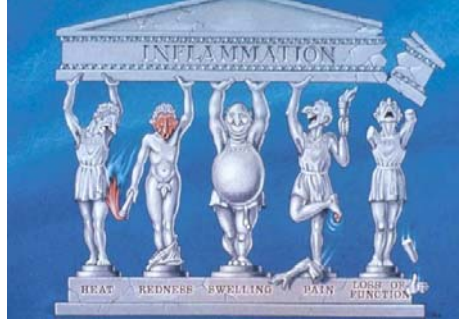




**MARMARA UNIVERSITY – EASTERN MEDITERRANEAN
UNIVERSITY INTERNATIONAL MEDICAL SCHOOL**



CELL AND TISSUE INJURY - I
YEAR 2 COURSE 1
Sep 02nd, 2019 – Oct 17th, 2019

Year 2 Coordinators

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

Module Coordinators

Prof., Özlem SARIKAYA & Dr. 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., H.
Eren SAKALLI

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

Acting Dean (EMU)

Assoc. Pror., Emre HAMURTEKİN

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

<p>Ahmet ARMAN, Professor of Medical Genetics Ahmet İlder GÜNEY, Assoc. Professor of Medical Genetics Alper YILDIRIM, Assist. Professor of Physiology Atıla KARAALP, Professor of Clinical Pharmacology Arzu İLKİ, Assoc. Professor of Medical Microbiology Ayşegül KARAHASAN, Professor of Microbiology Berfu ÇERÇİ ÖNGÜN, Instructor of Anatomy Bülent Sezgin, Assist. Professor of Internal Medicine Burak AKSU, Assist. Professor of Medical Microbiology Cemal GÜRKAN, Instructor of Forensic Sciences Çiğdem ATAİZİ ÇELİKEL, Professor of Pathology Deniz FILINTE, Assist. Professor of Medical Pathology Didem RIFKI, Instructor of E.N.T. 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 Goncagül HAKLAR, Professor of Medical Biochemistry Güner SÖYLEDİR, Professor of Microbiology Günseli Ayşe GARIP İNHAN, Assoc. Professor of Biophysics</p>	<p>Handan KAYA, Professor of Medical Pathology Hızır KURTEL, Professor of Physiology Hülya CABADAK, Professor of Biophysics İlke AKÇAY, Assist. Professor of Biostatistics İpek ERBARUT, Assist. Professor of Medical Pathology Mümtaz GÜRAN, Assist. Prof. of Medical Microbiology Nahide GÖKÇORA, Professor of Nuclear Medicine Nilgün ÇERİKÇIOĞLU, Professor of Medical Microbiology Nurtane KARAGİL, Instructor of Arts and Crafts Pelin BAĞCI, Assoc. Professor of Medical Pathology Pınar ATA, Professor of Medical Genetics Pınar Mega TİBER, Assoc. Professor of Biophysics Rezzan GÜLHAN, Professor of Pharmacology Saliha Serap ÇİFÇİLİ, Assoc. Professor of Family Medicine Süheyla BOZKURT, Professor of Pathology Şerife Ç. SÖKMEZ, Instructor of Turkish Language Şirin Funda EREN, Professor of Medical Pathology Tunç AKKOÇ, Professor of Pediatrics Ufuk HASDEMİR, Professor of Medical Microbiology Yaşar İnci ALİCAN, Professor of Physiology Zafer GÖREN, Professor of Pharmacology</p>
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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)

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
Family Medicine	1		1
Immunology	12		12
Microbiology	25	8	33
Nuclear Medicine	2		2
Pathology	15	7	22
Pharmacology	16		16
Physiology	5		5
Medical Genetics	7		7
Subtotal	101	15	117
ICS-2: Research Proposal Presentations	12		12
ICS-2: Students Research Activity	20		20
ICS-2: History Taking & Introduction to Physical Examination	16		16
TFMS 201- Turkish For Medical Students-III	24		
TFMS 201- Turkish For Medical Students-III (Interactive session for Foreign Students)	12		12
Elective Course-II MDCN181 MDCN182 MDCN184	2		
TOTAL	187	15	202

THEORETICAL AND PRACTICAL SESSIONS		LECTURER/TUTOR
1st WEEK (02 Sep – 06 Sep, 2019)		
Monday	02 September	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	Introduction to the course and opening lecture	Dr. Mümtaz Güran
13:40-14:30	Cell injury and cell death	Dr. Handan Kaya
14:40-15:30	Cell injury and cell death	Dr. Handan Kaya
15:40-16:30	Chronic inflammatory response	Dr. Handan Kaya
16:40-17:30	STUDY TIME	
Tuesday	03 September	
08:40-09:30	Pathogenesis of parasitic disease	Dr. Mümtaz Güran
09:40-10:30	Blood and tissue protozoa	Dr. Mümtaz Güran
10:40-11:30	Transplantation pathology	Dr. Handan Kaya
11:40-12:30	Amyloidosis	Dr. Handan Kaya
13:40-14:30	Microbial pathogenicity and virulence	Dr. Zeynep Arzu İlki
14:40-15:30	Cultivation and identification of bacteria	Dr. Zeynep Arzu İlki
15:40-16:30	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özerinç
16:40-17:30	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özerinç
Wednesday	04 September	
08:40-09:30	STUDY TIME	
09:40-10:30	Intestinal and urogenital protozoa	Dr. Mümtaz Güran
10:40-11:30	Body temperature and its regulation	Dr. Yaşar İnci Alican
11:40-12:30	Body temperature and its regulation	Dr. Yaşar İnci Alican

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13:40-14:30	Physiology of pain	Dr. Alper Yıldırım
14:40-15:30	Molecular mechanisms of necrosis and apoptosis	Dr. Ahmet Arman
15:40-16:30	Signal transduction of inflammation	Dr. Ahmet Arman
16:40-17:30	STUDY TIME	
Thursday	05 September	
08:40-09:30	Turkish for Medical Students - III	
09:40-10:30	Turkish for Medical Students - III	
10:40-11:30	Intestinal and tissue nematodes	Dr. Mümtaz Güran
11:40-12:30	Intestinal and tissue nematodes	Dr. Mümtaz Güran
13:40-14:30	Cestodes and trematodes	Dr. Mümtaz Güran
14:40-15:30	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özeriç
15:40-16:30	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özeriç
16:40-17:30	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özeriç
Friday	06 September	
08:40-09:30	STUDY TIME	
09:40-10:30	Turkish for Medical Students - III	
10:40-11:30	Turkish for Medical Students - III	
11:40-12:30	DNA viruses: Adenoviruses, Parvoviruses, Papavoviruses, and Poxviruses	Dr. Mümtaz Güran
13:40-14:30	Biochemical aspect of cell death	Dr. Goncagül Haklar
14:40-15:30	Biochemical aspect of cell death	Dr. Goncagül Haklar
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
2nd Week (Sep 09 - Sep 13, 2019)		
Monday	09 September	
08:40-09:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez

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09:40-10:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
10:40-11:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
11:40-12:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
13:40-14:30	Health effects of tobacco	Dr. Elif Dağlı
14:40-15:30	Health effects of tobacco	Dr. Elif Dağlı
15:40-16:30	Introduction to pharmacology	Dr. Atila Karaalp
16:40-17:30	Routes of drug administration	Dr. Atila Karaalp
Tuesday	10 September	
08:40-09:30	ICS-2 SRA: Introduction to ICS-2 Research: Evaluation of ICS-1 Research Projects	Dr. İlke Akçay
09:40-10:30	ICS-2 SRA: Introduction to ICS-2 Research: Evaluation of ICS-1 Research Projects	Dr. İlke Akçay
10:40-11:30	ICS-2 SRA: Introduction to ICS-2 Research: Theme, Assessment, Ethical Approval Process	Dr. İlke Akçay
11:40-12:30	ICS-2 SRA: Introduction to ICS-2 Research: Timeline and Schedule of the year	Dr. İlke Akçay
13:40-14:30	General pharmacokinetic principles-1	Dr. Rezzan Gülhan
14:40-15:30	General pharmacokinetic principles-2	Dr. Rezzan Gülhan
15:40-16:30	General pharmacokinetic principles-3	Dr. Rezzan Gülhan
16:40-17:30	General pharmacokinetic principles-4	Dr. Rezzan Gülhan
Wednesday	11 September	
08:40-09:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı
09:40-10:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı
10:40-11:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı
11:40-12:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı

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13:40-14:30	Introduction to innate immune system	Dr. Tunç Akkoç
14:40-15:30	Major histocompatibility complex (MHC) molecules, antigen processing and presentation	Dr. Tunç Akkoç
15:40-16-30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç
16:40-17:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç
Thursday	12 September	
08:40-09:30	Radioactivity: the decay law; physical half-life, biological half-life	Dr. Pınar Mega Tiber
09:40-10:30	Radioactivity: the decay law; physical half-life, biological half-life	Dr. Pınar Mega Tiber
10:40-11:30	Types of radiation	Dr. Pınar Mega Tiber
11:40-12:30	Types of radiation	Dr. Pınar Mega Tiber
13:40-14:30	Development of T cells, T lymphocyte signaling mechanisms and activation	Dr. Tunç Akkoç
14:40-15:30	B Lymphocyte: Development and biology	Dr. Tunç Akkoç
15:40-16-30	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özerinç
16:40-17:30	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özerinç
Friday	13 September	
08:40-09:30	Cytokines	Dr. Tunç Akkoç
09:40-10:30	Cytokines	Dr. Tunç Akkoç
10:40-11:30	Dosimetry, basic concepts	Dr. Pınar Mega Tiber
11:40-12:30	Electromagnetic spectrum	Dr. Pınar Mega Tiber
13:40-14:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber
14:40-15:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber
15:40-16-30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel
16:40-17:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel

3rd Week (Sep 16 - Sep 20, 2019)		
Monday	16 September	
08:40-09:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
09:40-10:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
10:40-11:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
11:40-12:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
13:40-14:30	Autacoids	Dr. Zafer Gören
14:40-15:30	Autacoids	Dr. Zafer Gören
15:40-16:30	RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses	Dr. Mümtaz Güran
16:40-17:30	STUDY TIME	
Tuesday	17 September	
08:40-09:30	ICS-2 SRA: Research Proposal Workshop (RPW) – Course I: Type of Research Studies	Dr. İlke Akçay
09:40-10:30	ICS-2 SRA: Research Proposal Workshop (RPW) – Course I: Type of Research Studies	Dr. İlke Akçay
10:40-11:30	ICS-2 SRA: Research Proposal Workshop (RPW) – Course I: Type of Research Studies	Dr. İlke Akçay
11:40-12:30	ICS-2 SRA: Research Proposal Workshop (RPW) – Course I: Type of Research Studies	Dr. İlke Akçay
13:40-14:30	Student Club Orientation	Dr. İlke Akçay, Dr. Berfu Çerçi Öngün
14:40-15:30	Basic principles of drug toxicity	Dr. Eren Sakallı
15:40-16:30	Mechanism of drug action	Dr. Zafer Gören
16:40-17:30	Mechanism of drug action	Dr. Zafer Gören
Wednesday	18 September	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	RNA viruses: Orthomyxoviruses and Paramyxoviruses	Dr. Mümtaz Güran

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13:40-14:30	Human microbiota	Dr. Nilgün Çerikçioğlu
14:40-15:30	Microbiology LAB: Normal body flora-I	Dr. Nilgün Çerikçioğlu, Dr. Mümtaz Güran
15:40-16-30	Microbiology LAB: Normal body flora-I	Dr. Nilgün Çerikçioğlu, Dr. Mümtaz Güran
16:40-17:30	STUDY TIME	
Thursday	19 September	
08:40-09:30	STUDY TIME	
09:40-10:30	Microbiology LAB: Normal body flora-II	Dr. Nilgün Çerikçioğlu, Dr. Mümtaz Güran
10:40-11:30	Microbiology LAB: Normal body flora-II	Dr. Nilgün Çerikçioğlu, Dr. Mümtaz Güran
11:40-12:30	Introduction to pathology	Dr. Şirin Funda Eren
13:40-14:30	Microbiology of water, milk and air	Dr. Nilgün Çerikçioğlu
14:40-15:30	Pathology LAB: General principals of macroscopic evaluation (slide lecture)	Dr. Şirin Funda Eren
15:40-16-30	Acute inflammatory response	Dr. Deniz Filinte
16:40-17:30	Acute inflammatory response	Dr. Deniz Filinte
Friday	20 September	
08:40-09:30	STUDY TIME	
09:40-10:30	Host parasite interactions	Dr. Güner Söyledir
10:40-11:30	Host parasite interactions	Dr. Güner Söyledir
11:40-12:30	Microbial toxins	Dr. Güner Söyledir
13:40-14:30	Mechanism of viral pathogenesis	Dr. Güner Söyledir
14:40-15:30	Hepatitis viruses	Dr. Güner Söyledir
15:40-16-30	STUDY TIME	
16:40-17:30	STUDY TIME	
4th Week (Sep 23 - Sep 27, 2019)		

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Monday	23 September	
08:40-09:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
09:40-10:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
10:40-11:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
11:40-12:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
13:40-14:30	Molecular and radiobiological behavior	Dr. Hülya Cabadak
14:40-15:30	Effects of ionizing radiation on the cell and organism	Dr. Hülya Cabadak
15:40-16-30	Radiation protection	Dr. Hülya Cabadak
16:40-17:30	STUDY TIME	
Tuesday	24 September	
08:40-09:30	ICS-2 SRA: RPW – Course II: Introduction Part of a Research Proposal	Dr. İlke Akçay, Dr. Özge Eker
09:40-10:30	ICS-2 SRA: RPW – Course II: Introduction Part of a Research Proposal	Dr. İlke Akçay, Dr. Özge Eker
10:40-11:30	ICS-2 SRA: RPW – Course II: Introduction Part of a Research Proposal	Dr. İlke Akçay, Dr. Özge Eker
11:40-12:30	ICS-2 SRA: RPW – Course II: Introduction Part of a Research Proposal	Dr. İlke Akçay, Dr. Özge Eker
13:40-14:30	Tissue and organ response to radiation and genetic effects of radiation	Dr. Nahide Gökçora
14:40-15:30	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özerinç
15:40-16-30	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özerinç
16:40-17:30	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özerinç
Wednesday	25 September	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	

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13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	26 September	
08:40-09:30	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ
09:40-10:30	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ
10:40-11:30	Pharmacogenetics	Dr. Ahmet İlter Güney
11:40-12:30	Pharmacogenetics	Dr. Ahmet İlter Güney
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	Adaptive cell reactions and abnormal accumulations	Dr. İpek Erbarut
Friday	27 September	
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 anti-allergic 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 Çelikel
14:40-15:30	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel
15:40-16:30	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel
16:40-17:30	STUDY TIME	
5th Week (Sep 30 - Oct 04, 2019)		
Monday	30 September	
08:40-09:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
09:40-10:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
10:40-11:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez

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11:40-12:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
13:40-14:30	DNA viruses: Herpes viruses	Dr. Ufuk Hasdemir
14:40-15:30	RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses	Dr. Ufuk Hasdemir
15:40-16:30	RNA viruses: Retroviruses and HIV	Dr. Ufuk Hasdemir
16:40-17:30	STUDY TIME	
Tuesday	01 October	
08:40-09:30	ICS-2 SRA: RPW – Course III: Determination of Material and Methods	Dr. İlke Akçay, Dr. Özge Eker
09:40-10:30	ICS-2 SRA: RPW – Course III: Determination of Material and Methods	Dr. İlke Akçay, Dr. Özge Eker
10:40-11:30	ICS-2 SRA: RPW – Course III: Determination of Material and Methods	Dr. İlke Akçay, Dr. Özge Eker
11:40-12:30	ICS-2 SRA: RPW – Course III: Determination of Material and Methods	Dr. İlke Akçay, Dr. Özge Eker
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. Mehmet Burak Aksu
16:40-17:30	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu
Wednesday	02 October	
08:40-09:30	Microbiology LAB: Examination of protozoa	Dr. Mümtaz Güran
09:40-10:30	Microbiology LAB: Examination of protozoa	Dr. Mümtaz Güran
10:40-11:30	Microbiology LAB: Examination of helminths and medically important arthropods	Dr. Mehmet Burak Aksu
11:40-12:30	Microbiology LAB: Examination of helminths and medically important arthropods	Dr. Mehmet Burak Aksu
13:40-14:30	Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus	Dr. Burak Aksu
14:40-15:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç
15:40-16:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç
16:40-17:30	STUDY TIME	

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Thursday	03 October	
08:40-09:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rıfki
09:40-10:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rıfki
10:40-11:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rıfki
11:40-12:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rıfki
13:40-14:30	Patient with fever and rash	Dr. Saliha Serap Çifçili
14:40-15:30	Introduction to chemotherapeutics	Dr. Eren Sakallı
15:40-16:30	Pharmacotherapy in parasitic infections	Dr. Eren Sakallı
16:40-17:30	Pharmacotherapy of viral infections	Dr. Eren Sakallı
Friday	04 October	
08:40-09:30	Tissue renewal and repair: regeneration, healing and fibrosis	Dr. Pelin Bağcı
09:40-10:30	Pathology LAB: Cell response to injury and adaptive cell reactions	Dr. Pelin Bağcı
10:40-11:30	Pathology LAB: Cell response to injury and adaptive cell reactions	Dr. Pelin Bağcı
11:40-12:30	Pathology LAB: Cell response to injury and adaptive cell reactions	Dr. Pelin Bağcı
13:40-14:30	Pathology LAB: Changes in the size, consistency, colour, and composition of organs-A	Dr. Pelin Bağcı
14:40-15:30	Pathology LAB: Changes in the size, consistency, colour, and composition of organs-A	Dr. Pelin Bağcı
15:40-16:30	Pathology LAB: Changes in the size, consistency, colour, and composition of organs-A	Dr. Pelin Bağcı
16:40-17:30	STUDY TIME	
6th Week (Oct 07 - Oct 11, 2019)		

Last Updated on October 8th, 2019

Monday	07 October	
08:40-09:30	STUDY TIME	
09:40-10:30	Turkish Placement Test	
10:40-11:30	Turkish Placement Test	
11:40-12:30	Turkish Placement Test	
13:40-14:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
14:40-15:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
15:40-16:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft for Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness and High Intensity Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
16:40-17:30	Turkish for Medical Students - III	Inst. Şerife Ç. Sökmez
	Elective Course-II (Turkish Students) MDCN181 Forensic Sciences MDCN182 Art & Craft for Medicine Students MDCN186 Modern Indian Dance MDCN187 Aerial Fitness and High Intensity Interval Training	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Hande Tuğcan Inst. Yasemin Kurtoğlu
Tuesday	08 October	
08:40-09:30	ICS-2 SRA: RPW – Course IV: Planning Data Analysis, Ethical Considerations and Limitations	Dr. İlke Akçay
09:40-10:30	ICS-2 SRA: RPW – Course IV: Planning Data Analysis, Ethical Considerations and Limitations	Dr. İlke Akçay
10:40-11:30	ICS-2 SRA: RPW – Course IV: Planning Data Analysis, Ethical Considerations and Limitations	Dr. İlke Akçay
11:40-12:30	ICS-2 SRA: RPW – Course IV: Planning Data Analysis, Ethical Considerations and Limitations	Dr. İlke Akçay
13:40-14:30	Effects of the electromagnetic waves on human health	Dr. Günseli Ayşe Garip İhan
14:40-15:30	Basic principles of immunopathology	Dr. Süheyla Bozkurt
15:40-16:30	Pathology of hypersensitivity reactions	Dr. Süheyla Bozkurt
16:40-17:30	Pathology of autoimmune disorders	Dr. Süheyla Bozkurt

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Wednesday	9 October	
08:40-09:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rifki
09:40-10:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rifki
10:40-11:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rifki
11:40-12:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rifki
13:40-14:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rifki
14:40-15:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rifki
15:40-16-30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rifki
16:40-17:30	ICS-2: History Taking & Introduction to Physical Examination	Dr. Bülent Sezgin, Dr. Eren Sakallı, Dr. Didem Rifki
Thursday	10 October	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16-30	STUDY TIME	
16:40-17:30	STUDY TIME	
Friday	11 October	

Last Updated on October 8th, 2019

08:40-09:30	STUDY TIME	
09:40-10:30	ICS-2: Research Proposal Presentations	Dr. İlke Akçay, Dr. Emre Hamurtekin, Dr. Mümtaz Güran, Dr. Özge Eker, Dr. Eren Sakallı
10:40-11:30	ICS-2: Research Proposal Presentations	
11:40-12:30	ICS-2: Research Proposal Presentations	
13:40-14:30	ICS-2: Research Proposal Presentations	Dr. İlke Akçay, Dr. Emre Hamurtekin, Dr. Mümtaz Güran, Dr. Özge Eker, Dr. Eren Sakallı
14:40-15:30	ICS-2: Research Proposal Presentations	
15:40-16-30	ICS-2: Research Proposal Presentations	
16:40-17:30	STUDY TIME	
7th Week (Oct 14 - Oct 18, 2019)		
Monday	14 October	
08:40-09:30	PRACTICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	PRACTICAL EXAM	
14:40-15:30		
15:40-16-30		
16:40-17:30		
Tuesday	15 October	
08:40-09:30	PRACTICAL EXAM	
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	PRACTICAL EXAM	
14:40-15:30		
15:40-16-30		
16:40-17:30		

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Wednesday	16 October	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16:30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	17 October	
08:40-09:30	Y2C1 THEORETICAL EXAM 9:30 A.M.	
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		
	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özerinç
	Turkish for Medical Students - III (Interactive session for Foreign Students)	Inst. Emine Özerinç