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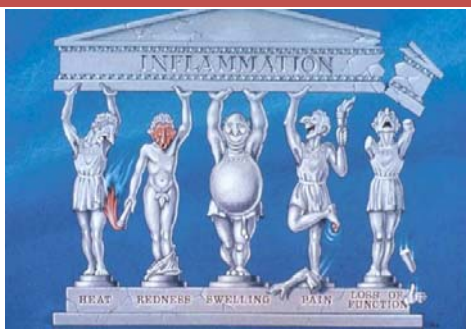
MARMARA UNIVERSITY – EASTERN MEDITERRANEAN UNIVERSITY INTERNATIONAL MEDICAL SCHOOL



CELL AND TISSUE INJURY - I
YEAR 2 COURSE 1
Sep 07th, 2020 – Oct 16th, 2020

Year 2 Coordinators

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

Module Coordinators	**Coordinators of Multidiciplinary Students' Lab.**
Prof., Özlem SARIKAYA **&** Assist. Prof., Bülent SEZGİN	Assoc. Prof., Betül KARADEMİR **&** Assist. Prof., Mümtaz GÜRAN
Coordinators of Clinical Skill Lab.	**Coordinators of ICS Res. Lab.**
Prof., Pemra ÜNALAN **&** Assoc. Prof. Nilüfer GÜZOĞLU	Prof., Pemra ÜNALAN **&** Assist. Prof., İlke AKÇAY

Vice-Chief Coordinators

Assessment	**Students' Affairs**
Assist. Prof., Cevdet NACAR & Assist. Prof., H. Eren SAKALLI	Assist. Prof., Can ERZİK **&** Ins. Yönter MERAY
Chief Coordinator	**Coordinator of Medical Education Program Evaluation and Development Commission**
Assoc. Prof., Hasan YANANLI & Assist. Prof., Mümtaz GÜRAN	Prof., Berrak Ç. YEĞEN

Educational Consultant

Prof., Mehmet Ali GÜLPINAR

Acting Dean (EMU)	**Dean (MU)**
Prof., Nahide GÖKÇORA	Prof., Hakan GÜNDÜZ

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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 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

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Year 3, Course 4: Growth, Development, Mental Health and Related Disorders

Year 3, Course 5: Urinary and eproductive 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	PROGRAM EVALUATION
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	Evaluation at the end of the course, is done both orally and by using structured evaluation forms

DEPARTMENTS PARTICIPATING IN COURSE-2.1

☐ Biochemistry	☐ Microbiology
☐ Biophysics	☐ Nuclear Medicine
☐ Child Health and Diseases	☐ Pathology
☐ Family Medicine	☐ Pharmacology
☐ Immunology	☐ Physiology
☐ Medical Genetics	

LECTURERS / TUTORS

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Ahmet ARMAN, Professor of Medical Genetics Ahmet İlter GÜNEY, Assoc. Professor of Medical Genetics Ahmet TOPUZOĞLU, Professor of Public Health Alper YILDIRIM, Assist. Professor of Physiology Atila KARAALP, Professor of Clinical Pharmacology Arzu İLKİ, Assoc. Professor of Medical Microbiology Burak AKSU, Assist. Professor of Medical Microbiology Bülent SEZGİN, Assist. Professor of Internal Medicine Çiğdem ATAİZİ ÇELİKEL, Professor of Pathology Deniz FİLİNTE, Assist. Professor of Medical Pathology Ela ERDEM ERALP, Assoc. Professor of Child Health and Diseases Emine ÖZERİNÇ, Instructor of Turkish Language Eren SAKALLI, Assist. Professor of Clinical Pharmacology Ergül Mutlu Altundağ, Assist. Professor of Biochemistry Goncagül HAKLAR, Professor of Medical Biochemistry Günseli Ayşe GARİP İNHAN, Assoc. Professor of Biophysics 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	Masoud AFSHANI, Assist. Professor of Histology and Embryology Mümtaz GÜRAN, Assist. Prof. of Medical Microbiology Nadiye Pınar AY, Professor of Public Health Nahide GÖKÇORA, Professor of Nuclear Medicine Nilgün ÇERIKÇIOĞLU, Professor of Medical Microbiology Nilüfer OZAYDIN, Assoc. Professor of Public Health Nimet Emel LÜLECİ, Professor of Public Health Pelin BAĞCI, Assoc. Professor of Medical Pathology Pemra ÜNALAN, Assoc. Professor of Family Medicine Pınar ATA, Professor of Medical Genetics Pınar Mega TİBER, Assoc. Professor of Biophysics Rezzan GÜLHAN, Professor of Pharmacology Saliha Serap ÇIFÇILI, Assoc. Professor of Family Medicine Seyhan HIDIROĞLU, Assoc. Professor of Public Health Süheyla BOZKURT, Professor of Pathology Şirin Funda EREN, Professor of Medical Pathology Tunç AKKOÇ, Professor of Immunology Ufuk HASDEMIR, Professor of Medical Microbiology Yaşar İnci ALİCAN, Professor of Physiology 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)

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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	2		2
Immunology	12		12
Microbiology	25	4	29
Nuclear Medicine	2		2
Pathology	16	5	21
Pharmacology	17		17
Physiology	5		5
Medical Genetics	7		7
Subtotal	**103**	**9**	**112**
ICS-2: Research Proposal Workshop and Student Research Activity	16	5	21
ICS-2: History Taking & Introduction to Physical Examination	3		3
TFMS 201- Turkish For Medical Students-III	6		6
TOTAL	**128**	**14**	**142**

***** online lecture given through **MS Teams Application**

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	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
1st WEEK (07 Sep – 11 Sep, 2020)		
Monday	**07 September**	
09:00-09:50	STUDY TIME	
10:00-10:50	Introduction to the course and opening lecture	Dr. Masoud Afshani*
11:00-11:50	Introduction to pharmacology	Dr. Atila Karaalp
13:00-13:50	Routes of drug administration	Dr. Atila Karaalp
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
Tuesday	**08 September**	
09:00-09:50	STUDY TIME	
10:00-10:50	Radioactivity: the decay law; physical half-life, biological halflife	Dr. Pınar Mega Tiber
11:00-11:50	Radioactivity: the decay law; physical half-life, biological halflife	Dr. Pınar Mega Tiber
13:00-13:50	Biochemical aspect of cell death	Dr. Goncagül Haklar
14:00-14:50	Biochemical aspect of cell death	Dr. Goncagül Haklar
15:00-15:50	STUDY TIME	
Wednesday	**09 September**	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	Pathogenesis of parasitic disease	Dr. Mümtaz Güran*
13:00-13:50	General pharmacokinetic principles-1	Dr. Rezzan Gülhan
14:00-14:50	General pharmacokinetic principles-2	Dr. Rezzan Gülhan
15:00-15:50	STUDY TIME	
Thursday	**10 September**	
09:00-09:50	Microbiology of water, milk and air	Dr. Nilgün Çerikçioğlu

10:00-10:50	Human microbiota	Dr. Nilgün Çerikçioğlu
11:00-11:50	Blood and tissue protozoa	Dr. Mümtaz Güran*
13:00-13:50	Effects of the electromagnetic waves on human health	Dr. Günseli Ayşe Garip İnhan
14:00-14:50	Molecular mechanisms of necrosis and apoptosis	Dr. Ahmet Arman
15:00-15:50	STUDY TIME	
Friday	**11 September**	
09:00-09:50	STUDY TIME	
10:00-10:50	Types of radiation	Dr. Pınar Mega Tiber
11:00-11:50	Types of radiation	Dr. Pınar Mega Tiber
13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
	2nd Week (Sep 14 - Sep 18, 2020)	
Monday	**14 September**	
09:00-09:50	STUDY TIME	
10:00-10:50	Effects of ionizing radiation on the cell and organism	Dr. Hülya Cabadak
11:00-11:50	Radiation protection	Dr. Hülya Cabadak
13:00-13:50	Dosimetry, basic concepts	Dr. Pınar Mega Tiber
14:00-14:50	Electromagnetic spectrum	Dr. Pınar Mega Tiber
15:00-15:50	STUDY TIME	
Tuesday	**15 September**	
09:00-09:50	Tissue and organ response to radiation and genetic effects of radiation	Dr. Nahide Gökçora*
10:00-10:50	Intestinal and urogenital protozoa	Dr. Mümtaz Güran*
11:00-11:50	Molecular and radiobiological behavior	Dr. Hülya Cabadak

13:00-13:50	Cellular aging and death	Dr. Pınar Ata
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
Wednesday	**16 September**	
09:00-09:50	STUDY TIME	
10:00-10:50	General pharmacokinetic principles-3	Dr. Rezzan Gülhan
11:00-11:50	General pharmacokinetic principles- 4	Dr. Rezzan Gülhan
13:00-13:50	Interaction of radiation with matter	Dr. Pınar Mega Tiber
14:00-14:50	Interaction of radiation with matter	Dr. Pınar Mega Tiber
15:00-15:50	STUDY TIME	
Thursday	**17 September**	
09:00-09:50	STUDY TIME	
10:00-10:50	Mechanism of drug action	Dr. Zafer Gören
11:00-11:50	Mechanism of drug action	Dr. Zafer Gören
13:00-13:50	Intestinal and tissue nematodes	Dr. Mümtaz Güran*
14:00-14:50	Intestinal and tissue nematodes	Dr. Mümtaz Güran*
15:00-15:50	STUDY TIME	
Friday	**18 September**	
09:00-09:50	Microbial pathogenicity and virulence	Dr. Zeynep Arzu İlki
10:00-10:50	Basic principles of drug toxicity	Dr. Eren Sakallı*
11:00-11:50	Introduction to pathology	Dr. Süheyla Bozkurt
13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
	3rd Week (Sep 21 - Sep 25, 2020)	

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Monday	**21 September**	
09:00-09:50	Signal transduction of inflammation	Dr. Ahmet Arman
10:00-10:50	Cestodes and trematodes	Dr. Mümtaz Güran*
11:00-11:50	Antiseptics and disinfectants	Dr. Eren Sakallı*
13:00-13:50	Cell injury and cell death	Dr. Handan Kaya
14:00-14:50	Cell injury and cell death	Dr. Handan Kaya
15:00-15:50	STUDY TIME	
Tuesday	**22 September**	
09:00-09:50	Microbial toxins	Dr. Mehmet Burak Aksu
10:00-10:50	Cultivation and identification of bacteria	Dr. Zeynep Arzu İlki
11:00-11:50	Introduction to innate immune system	Dr. Tunç Akkoç*
13:00-13:50	Adaptive cell reactions and abnormal accumulations	Dr. İpek Erbarut
14:00-14:50	Introduction to chemotherapeutics	Dr. Rezzan Gülhan
15:00-15:50	Effects of the electromagnetic waves on human health	Dr. Günseli Ayşe Garip İnhan
Wednesday	**23 September**	
09:00-09:50	Acute inflammatory response	Dr. Deniz Filinte
10:00-10:50	Acute inflammatory response	Dr. Deniz Filinte
11:00-11:50	Tissue renewal and repair: regeneration, healing and fibrosis	Dr. Pelin Bağcı
13:00-13:50	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç
14:00-14:50	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç
15:00-15:50	STUDY TIME	
Thursday	**24 September**	
09:00-09:50	Major histocompatibility complex (MHC) molecules, antigen processing and presentation	Dr. Tunç Akkoç

10:00-10:50	Pharmacogenetics	Dr. Ahmet İlter Güney
11:00-11:50	Pharmacogenetics	Dr. Ahmet İlter Güney
13:00-13:50	Basic principles of immunopathology	Dr. Süheyla Bozkurt
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
Friday	**25 September**	
09:00-09:50	Cytokines	Dr. Tunç Akkoç
10:00-10:50	Cytokines	Dr. Tunç Akkoç
11:00-11:50	Chronic inflammatory response	Dr. Handan Kaya
13:00-13:50	STUDY TIME	
14:00-14:50	Pathology of hypersensitivity reactions	Dr. Süheyla Bozkurt
15:00-15:50	Turkish For Medical Students-III	Dr. Emine Özerinç*
16:00-16:50	Turkish For Medical Students-III	Dr. Emine Özerinç*
	4th Week (Sep 28 - Oct 02, 2019)	
Monday	**28 September**	
09:00-09:50	**Introduction to ICS-2**	Dr. Saliha Serap Çifçili Dr. Pemra Ünalan
10:00-10:50	Hx-Phx: From communication skills to history taking	
11:00-11:50	HxPhx: Active listening/ Observation, feedback practice. Online practice with each other (3 students-case study)	
13:00-13:50	**ICS-2 Research:** EBM - Introduction to Survey Methods	Dr. Nadiye Pınar Ay
14:00-14:50	**ICS-2 Research:** EBM - Experimental Studies	Dr. Nadiye Pınar Ay
15:00-15:50	**ICS-2 Research:** EBM - Cohort Studies	Dr. Nadiye Pınar Ay
Tuesday	**29 September**	
09:00-09:50	**ICS-2 Research:** EBM - Case-control studies	Dr. Nilüfer Özaydın
10:00-10:50	**ICS-2 Research:** EBM - Survey Methods I	Dr. Nilüfer Özaydın
11:00-11:50	**ICS-2 Research:** EBM - Survey Methods II	Dr. Nilüfer Özaydın

13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
Wednesday	**30 September**	
09:00-09:50	**ICS-2 Research:** EBM - Objectives	Dr. Nimet Emel Lüleci
10:00-10:50	**ICS-2 Research:** EBM - Study population and sampling	Dr. Nimet Emel Lüleci
11:00-11:50	**ICS-2 Research:** EBM - Variables	Dr. Nimet Emel Lüleci
13:00-13:50	**Introduction to ICS-2 Research:** Feedback from last year	Dr. İlke Akçay*
14:00-14:50	**Introduction to ICS-2 Research:** Theme, Assessment, Timeline and Schedule of the Year	Dr. İlke Akçay*
15:00-15:50	**Introduction to ICS-2 Research:** Informing about RPW and Ethical Approval Process	Dr. İlke Akçay*
Thursday	**01 October**	
09:00-09:50	**ICS-2 Research:** EBM - Data collection and methods	Dr. Seyhan Hıdıroğlu
10:00-10:50	**ICS-2 Research:** Preparing the study proposal and ethical committee application form	Dr. İlke Akçay*
11:00-11:50	**ICS-2 Research:** Introduction of mentors	Dr. İlke Akçay*
13:00-13:50	**ICS-2:** History Taking	Dr. Bülent Sezgin*
14:00-14:50	**ICS-2:** History Taking	Dr. Bülent Sezgin*
15:00-15:50	**ICS-2:** History Taking	Dr. Bülent Sezgin*
Friday	**02 October**	
09:00-09:50	**ICS-2 Research:** EBM - Qualitative research methods	Dr. Seyhan Hıdıroğlu
10:00-10:50	**ICS-2 Research:** EBM - Meta-analysis I	Dr. Ahmet Topuzoğlu
11:00-11:50	**ICS-2 Research:** EBM - Meta analysis II	Dr. Ahmet Topuzoğlu
13:00-13:50	**ICS-2 Research:** Review of RPW	Dr. İlke Akçay*
14:00-14:50	**ICS-2 Research:** Group formation	Dr. İlke Akçay*
15:00-15:50	**ICS-2 Research:** Informing about the Student Research activity	Dr. İlke Akçay*

	5th Week (Oct 05 - Oct 09, 2020)	
Monday	**05 October**	
09:00-09:50	Development of T cells, T lymphocyte signaling mechanisms and activation	Dr. Tunç Akkoç
10:00-10:50	Mechanism of viral pathogenesis	Dr. Ufuk Hasdemir
11:00-11:50	DNA viruses: Herpes viruses	Dr. Ufuk Hasdemir
13:00-13:50	Host parasite interactions	Dr. Mehmet Burak Aksu
14:00-14:50	Host parasite interactions	Dr. Mehmet Burak Aksu
15:00-15:50	STUDY TIME	
Tuesday	**06 October**	
09:00-09:50	B Lymphocyte: Development and biology	Dr. Tunç Akkoç
10:00-10:50	**Microbiology LAB:** Examination of protozoa	Dr. Mümtaz Güran
11:00-11:50	**Microbiology LAB**: Examination of protozoa	Dr. Mümtaz Güran
13:00-13:50	DNA viruses: Adenoviruses, Parvoviruses, Papavoviruses, and Poxviruses	Dr. Mümtaz Güran*
14:00-14:50	**Microbiology LAB**: Examination of helminths and medically important arthropods	Dr. Mehmet Burak Aksu
15:00-15:50	**Microbiology LAB**: Examination of helminths and medically important arthropods	Dr. Mehmet Burak Aksu
Wednesday	**07 October**	
09:00-09:50	Structure and function of complement system	Dr. Tunç Akkoç
10:00-10:50	Immunogenetics of transplantation	Dr. Pınar Ata
11:00-11:50	Immunogenetics of transplantation	Dr. Pınar Ata
13:00-13:50	RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses	Dr. Ufuk Hasdemir
14:00-14:50	RNA viruses: Retroviruses and HIV	Dr. Ufuk Hasdemir
15:00-15:50	STUDY TIME	

Thursday	**08 October**	
09:00-09:50	STUDY TIME	
10:00-10:50	Bridging innate and adaptive immunity dendritic cells, NK cells, NKT cells and other innate-like T and B lineages	Dr. Tunç Akkoç
11:00-11:50	Drug-induced immune response and antiallergic treatment	Dr. Eren Sakallı*
13:00-13:50	RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses	Dr. Mümtaz Güran*
14:00-14:50	TFMS 201- Turkish For Medical Students-III	Inst. Emine Özerinç*
15:00-15:50	TFMS 201- Turkish For Medical Students-III	Inst. Emine Özerinç*
Friday	**09 October**	
09:00-09:50	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç
10:00-10:50	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç
11:00-11:50	Pathology LAB: General principals of macroscopic evaluation (slide lecture)	Dr. Şirin Funda Eren
13:00-13:50	RNA viruses: Orthomyxoviruses and Paramyxoviruses	Dr. Mümtaz Güran*
14:00-14:50	TFMS 201- Turkish For Medical Students-III	Inst. Emine Özerinç*
15:00-15:50	TFMS 201- Turkish For Medical Students-III	Inst. Emine Özerinç*
	6th Week (Oct 12 - Oct 16, 2020)	
Monday	**12 October**	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	STUDY TIME	
13:00-13:50	Transplantation pathology	Dr. Handan Kaya
14:00-14:50	Amyloidosis	Dr. Handan Kaya
15:00-15:50	Bioterrorism: a global threat	Dr. Mümtaz Güran*
Tuesday	**13 October**	

09:00-09:50	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel
10:00-10:50	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel
11:00-11:50	Pathology of autoimmune disorders	Dr. Süheyla Bozkurt
13:00-13:50	Autocoids	Dr. Zafer Gören
14:00-14:50	Autocoids	Dr. Zafer Gören
15:00-15:50	Autocoids	Dr. Zafer Gören
16:00-16:50	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu
17:00-17:50	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu
Wednesday	**14 October**	
09:00-09:50	Pharmacotherapy in parasitic infections	Dr. Eren Sakallı*
10:00-10:50	Introduction to Family Medicine	Dr. Gülru Pemra Ünalan
11:00-11:50	STUDY TIME	
13:00-13:50	**Pathology LAB:** Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs	Dr. Pelin Bağcı
14:00-14:50	**Pathology LAB:** Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs	Dr. Pelin Bağcı
15:00-15:50	**Pathology LAB:** Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs	Dr. Pelin Bağcı
16:00-16:50	**Pathology LAB**: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs	Dr. Pelin Bağcı
Thursday	**15 October**	
09:00-09:50	Haemodynamic disorders	Dr. Çiğdem Ataizi Çelikel
10:00-10:50	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel
11:00-11:50	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel
12:00-12:50	Application of nuclear medicine and radiotherapy	Dr. Nahide Gökçora*
13:00-13:50	Body temperature and its regulation	Dr. Yaşar İnci Alican
14:00-14:50	Body temperature and its regulation	Dr. Yaşar İnci Alican

15:00-15:50	Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus	Dr. Mehmet Burak Aksu
16:00-16:50	Hepatitis viruses	Dr. Ufuk Hasdemir
Friday	**16 October**	
09:00-09:50	Pharmacotherapy of viral infections	Dr. Eren Sakallı*
10:00-10:50	Physiology of pain	Dr. Alper Yıldırım
11:00-11:50	Patient with fever and rash	Dr. Saliha Serap Çifçili
13:00-13:50	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ*
14:00-14:50	Eicosanoids and related compounds	Dr. Ergül Mutlu Altundağ*
15:00-15:50	Health effects of tobacco	Dr. Ela Erdem Eralp
16:00-16:50	Health effects of tobacco	Dr. Ela Erdem Eralp
	7th Week (Oct 19 - Oct 23, 2020)	
Monday	**19 October**	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	STUDY TIME	
13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
Tuesday	**20 October**	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	STUDY TIME	
13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
16:00-16:50	STUDY TIME	

17:00-17:50	STUDY TIME	
Wednesday	**21 October**	
09:00-09:50	STUDY TIME	
10:00-10:50	STUDY TIME	
11:00-11:50	STUDY TIME	
13:00-13:50	STUDY TIME	
14:00-14:50	STUDY TIME	
15:00-15:50	STUDY TIME	
16:00-16:50	STUDY TIME	
Thursday	**22 October**	
09:00-09:50	**Y2C1 THEORETICAL EXAM**	
10:00-10:50		
11:00-11:50		
12:00-12:50		
13:00-13:50		
14:00-14:50		
15:00-15:50		
16:00-16:50		
Friday	**23 October**	
09:00-09:50		
10:00-10:50		
11:00-11:50		
13:00-13:50		
14:00-14:50		
15:00-15:50		
16:00-16:50		