

 Tıp Fakültesi	MARMARA UNIVERSITY EASTERN MEDITERRANEAN UNIVERSITY INTERNATIONAL MEDICAL SCHOOL	
 CELL AND TISSUE INJURY - I YEAR 2 COURSE 1 Sep 06 th , 2021 – Oct 20 th , 2021		
Year 2 Coordinators Prof., Özgür Kasımay ÇAKIR & Assist. Prof., Burak AKSU & Assist. Prof., Masoud AFSHANI		
Module Coordinators Prof., Rezzan GÜLHAN & Assist. Prof., Bülent SEZGİN	Coordinators of Multidisciplinary Students' Lab. Assoc. Prof., Betül KARADEMİR & Assoc. Prof., Mümtaz GÜRAN	
Coordinators of Clinical Skill Lab. Prof., Pemra ÜNALAN & Assoc. Prof. Nilüfer GÜZOĞLU	Coordinators of ICS Res. Lab. Prof., Pemra ÜNALAN & Assist. Prof., İlke AKÇAY	
Vice-Chief Coordinators		
Assessment Assist. Prof., Cevdet NACAR & Assist. Prof., H. Eren SAKALLI	Student Affairs Asist. Prof., Can ERZİK Inst. Ayşen Şekerim	
Chief Coordinator Assoc. Prof., Hasan YANANLI & Assoc. Prof., Mümtaz GÜRAN	Coordinator of Medical Education Program Evaluation and Development Commission Prof., Harika Alpay	
Coordinator of the Joint Program Prof., Ümit Şehirli		
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.

<p style="text-align: center;">ASSESSMENT SYSTEM</p> <p>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</p>	<p style="text-align: center;">PROGRAM EVALUATION</p> <p>Evaluation at the end of the course, is done both orally and by using structured evaluation forms</p>
<p>DEPARTMENTS PARTICIPATING IN COURSE-2.1</p>	
<ul style="list-style-type: none"> • Biochemistry • Biophysics • Child Health and Diseases • Family Medicine • Immunology • Medical Genetics 	<ul style="list-style-type: none"> • Microbiology • Nuclear Medicine • Pathology • Pharmacology • Physiology
<p>LECTURERS / TUTORS</p>	
<p>Ahmet ARMAN, Professor of Medical Genetics Ahmet İler GÜNEY, Assoc. Prof., Medical Genetics Alper YILDIRIM, Assoc. Prof., Physiology Amber EKER, Assoc. Prof., Neurology Arzu İLKİ, Assoc. Professor of Medical Microbiology Ayşe ATASOYLU, Assist. Prof., Internal Medicine Banu Aydın OMay, Assoc. Professor of Biophysics Burak AKSU, Assist. Professor of Medical Microbiology Bülent SEZGİN, Assist. Prof. Internal Medicine Çiğdem ATAİZİ ÇELİKEL, Professor of Pathology Deniz FİLİNTE, Assist. Professor of Medical Pathology Ela Erdem ERALP, Professor of Child Health and Disease 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 Handan KAYA, Professor of Medical Pathology Hızır KURTEL, Professor of Physiology Hülya CABADAK, Professor of Biophysics İlke AKÇAY, Assist. Prof., Biostatistics İpek ERBARUT, Assist. Professor of Medical Pathology</p>	<p>Masoud AFSHANI, Assist. Professor of Histology and Embryology Mümtaz GÜRAN, Assoc. Prof. of Medical Microbiology Nahide GÖKÇORA, Professor of Nuclear Medicine Nilüfer GÜZOĞLU, Assoc. Prof., Neonatology Oya ORUN, Professor of Biophysics Ömür Çınar ELÇİ, 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 ÇIĞÇILI, 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</p>

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	2		2
Immunology	12		12
Medical Genetics	5		5
Microbiology	25	6	31
Nuclear Medicine	2		2
Pathology	16	4	20
Pharmacology	17		17
Physiology	4		4
Subtotal	101	10	121
ICS-2: Research Proposal Workshop and Student Research Activity	16	7	23
ICS-2: Basic Clinical Skills & Introduction to First Aid course		20	20
Turkish for Medical Students-III	24		24
Turkish for Medical Students-III (Interactive session)	7		7
TOTAL	148	37	185

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	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	LECTURE PLATFORM
1st WEEK (06 Sep – 10 Sep, 2021)			
Monday	06 September		
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	MS Teams
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	MS Teams
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	MS Teams
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	MS Teams
13:40-14:30	Biochemical aspect of cell death	Dr. Goncagül Haklar	MS Teams
14:40-15:30	Biochemical aspect of cell death	Dr. Goncagül Haklar	MS Teams
15:40-16:30	Introduction to pathology	Dr. Süheyla Bozkurt	MS Teams
16:40-17:30	Introduction to the course and opening lecture	Dr. Masoud Afshani	MS Teams
Tuesday	07 September		
08:40-09:30	Pathogenesis of parasitic disease	Dr. Mümtaz Güran	MS Teams
09:40-10:30	Blood and tissue protozoa	Dr. Mümtaz Güran	MS Teams
10:40-11:30	Radioactivity: the decay law; physical half-life, biological half life	Dr. Pınar Mega Tiber	MS Teams
11:40-12:30	Radioactivity: the decay law; physical half-life, biological half life	Dr. Pınar Mega Tiber	MS Teams
13:40-14:30	STUDY TIME		
14:40-15:30	STUDY TIME		
15:40-16:30	Cell injury and cell death	Dr. Handan Kaya	UZEM
16:40-17:30	Cell injury and cell death	Dr. Handan Kaya	UZEM
Wednesday	08 September		
08:40-09:30	Intestinal and urogenital protozoa	Dr. Mümtaz Güran	IN CLASS
09:40-10:30	Intestinal and tissue nematodes	Dr. Mümtaz Güran	IN CLASS
10:40-11:30	Intestinal and tissue nematodes	Dr. Mümtaz Güran	IN CLASS
11:40-12:30	Cestodes and trematodes	Dr. Mümtaz Güran	IN CLASS

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13:40-14:30	Molecular and radiobiological behavior	Dr. Hülya Cabadak	MS Teams
14:40-15:30	Microbial pathogenicity and virulence	Dr. Zeynep Arzu İlki	MS Teams
15:40-16:30	Molecular mechanisms of necrosis and apoptosis	Dr. Ahmet Arman	MS Teams
16:40-17:30	Effects of the electromagnetic waves on human health	Dr. Banu Aydın Omay	MS Teams
Thursday	09 September		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Types of radiation	Dr. Pınar Mega Tiber	MS Teams
11:40-12:30	Types of radiation	Dr. Pınar Mega Tiber	MS Teams
13:40-14:30	Cultivation and identification of bacteria	Dr. Zeynep Arzu İlki	MS Teams
14:40-15:30	Effects of ionizing radiation on the cell and organism	Dr. Hülya Cabadak	MS Teams
15:40-16:30	Radiation protection	Dr. Hülya Cabadak	MS Teams
16:40-17:30	STUDY TIME		
Friday	10 September		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Cellular aging and death	Dr. Pınar Ata	MS Teams
11:40-12:30	STUDY TIME		
13:40-14:30	Microbiology LAB: Examination of protozoa (Group A)	Dr. Mümtaz Güran	IN CLASS
14:40-15:30	Microbiology LAB: Examination of protozoa (Group A)	Dr. Mümtaz Güran	IN CLASS
15:40-16:30	Microbiology LAB: Examination of protozoa (Group B)	Dr. Mümtaz Güran	IN CLASS
16:40-17:30	Microbiology LAB: Examination of protozoa (Group B)	Dr. Mümtaz Güran	IN CLASS

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2nd Week (September 13-17, 2021)			
Monday	13 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		
13:40-14:30	Introduction to ICS-2	Dr. Gülru Pemra Ünalın	MU UZEM
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Tuesday	14 September		
08:40-09:30	Introduction to pharmacology	Dr. Rezzan Gülhan	IN CLASS
09:40-10:30	Routes of drug administration	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	Introduction to chemotherapeutics	Dr. Rezzan Gülhan	IN CLASS
16:40-17:30	STUDY TIME		
Wednesday	15 September		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	ICS-2 Research: Introduction to 2 nd Year Research: Evaluation of ICS-1 Research Projects	Dr. İlke Akçay	IN CLASS
11:40-12:30	ICS-2 Research: Introduction to 'MEDN260 Evidence Based Medicine' Course <i>Credit, Assessment, Content and Ethical Approval Process</i>	Dr. İlke Akçay	IN CLASS

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13:40-14:30	ICS-2: Medical asepsis and precautions to take in healthcare facilities	Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
14:40-15:30	ICS-2: Medical asepsis and precautions to take in healthcare facilities	Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
15:40-16:30	ICS-2: Medical asepsis and precautions to take in healthcare facilities	Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
16:40-17:30	ICS-2: Medical asepsis and precautions to take in healthcare facilities	Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
Thursday	16 September		
08:40-09:30	Acute inflammatory response	Dr. Deniz Filinte	MU UZEM
09:40-10:30	Acute inflammatory response	Dr. Deniz Filinte	MU UZEM
10:40-11:30	Tissue and organ response to radiation and genetic effects of radiation	Dr. Nahide Gökçora	MS Teams
11:40-12:30	STUDY TIME		
13:40-14:30	ICS-2 Research: Evidence based medicine	Dr. Ömür Çınar Elçi Dr. İlke Akçay	MS Teams
14:40-15:30	ICS-2 Research: Theme of 2nd year research projects: Health and Community	Dr. Ömür Çınar Elçi Dr. İlke Akçay	MS Teams
15:40-16:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	MS Teams
16:40-17:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	MS Teams
Friday	17 September		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber	MU UZEM
11:40-12:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber	MU UZEM

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13:40-14:30	STUDY TIME		
14:40-15:30	Adaptive cell reactions and abnormal accumulations	Dr. İpek Erbarut	MU UZEM
15:40-16:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	MS Teams
16:40-17:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	MS Teams
3rd Week (20-24 September 2021)			
Monday	20 September		
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	Basic principles of drug toxicity	Dr. Eren Sakallı	IN CLASS
14:40-15:30	STUDY TIME		
15:40-16:30	Mechanism of drug action	Dr. Zafer Gören	MU UZEM
16:40-17:30	Mechanism of drug action	Dr. Zafer Gören	MU UZEM
Tuesday	21 September		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Dosimetry, basic concepts	Dr. Pınar Mega Tiber	MS Teams
11:40-12:30	Electromagnetic spectrum	Dr. Pınar Mega Tiber	MS Teams
13:40-14:30	ICS-2 Research: Research Proposal Workshop (RPW) – Type of Research Studies Descriptive Studies (Case-reports, surveillance, literature reviews)	Dr. İlke Akçay	MS Teams
14:40-15:30	ICS-2 Research: Research Proposal Workshop (RPW) – Type of Research Studies Cross-sectional studies	Dr. İlke Akçay	MS Teams
15:40-16:30	ICS-2 Research: Research Proposal Workshop (RPW) – Type of Research Studies Case-control and Cohort studies	Dr. İlke Akçay	MS Teams
16:40-17:30	ICS-2 Research: Research Proposal Workshop (RPW) – Type of Research Studies Experimental studies, Systematic reviews and Meta- analyses	Dr. İlke Akçay	MS Teams

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17:40-18:30	STUDY TIME		
Wednesday	22 September		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	Basic principles of immunopathology	Dr. Süheyla Bozkurt	MU UZEM
11:40-12:30	Pathology of hypersensitivity reactions	Dr. Süheyla Bozkurt	MU UZEM
13:40-14:30	Mechanism of viral pathogenesis	Dr. Ufuk Hasdemir	MU UZEM
14:40-15:30	Signal transduction of inflammation	Dr. Ahmet Arman	MU UZEM
15:40-16:30	Antiseptics and disinfectants	Dr. Eren Sakallı	MS Teams
16:40-17:30	STUDY TIME		
Thursday	23 September		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	ICS-2 Research: RPW – Introduction part of a Research Proposal <i>Topic, title, literature review</i>	Dr. İlke Akçay	MS Teams
11:40-12:30	ICS-2 Research: RPW – Introduction part of a Research Proposal How to specify research question(s), objective(s) and hypotheses of a research study?	Dr. İlke Akçay	MS Teams
13:40-14:30	STUDY TIME		
14:40-15:30	Chronic inflammatory response	Dr. Handan Kaya	MU UZEM
15:40-16:30	Turkish For Medical Students-III (Interactive Session for Foreign Students)	Inst. Emine Özerinç	MS Teams
16:40-17:30	Turkish For Medical Students-III (Interactive Session for Foreign Students)	Inst. Emine Özerinç	MS Teams
Friday	24 September		
08:40-09:30	STUDY TIME		

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09:40-10:30	Turkish For Medical Students-III (Interactive Session for Foreign Students)	Inst. Emine Özerinç	MS Teams
10:40-11:30	Transplantation pathology	Dr. Handan Kaya	MU UZEM
11:40-12:30	Amyloidosis	Dr. Handan Kaya	MU UZEM
13:40-14:30	Turkish For Medical Students-III (Interactive Session for Foreign Students)	Inst. Emine Özerinç	MS Teams
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
4th Week (27 September-01 October 2021)			
Monday	27 September		
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	ICS-2 Research: Group formation and Warm-up activities	Dr. İlke Çetin Akçay	MS Teams
14:40-15:30	ICS-2 Research: Practical session: Group study to discuss about candidate topics	Dr. İlke Çetin Akçay	MS Teams
15:40-16:30	ICS-2 Research: Practical session: Group study to discuss about candidate topics	Dr. İlke Çetin Akçay	MS Teams
16:40-17:30	STUDY TIME		
Tuesday	28 September		
08:40-09:30	ICS-2: Medication administration procedures/ Injections/ IV Insertion ICS-2: Wound care/suture procedures Sterile Dressing Changes Suture/Removal GROUP A, B, C, D	Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
09:40-10:30	ICS-2: Medication administration procedures/ Injections/ IV Insertion ICS-2: Wound care/suture procedures Sterile Dressing Changes Suture/Removal GROUP A, B, C, D	Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS

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10:40-11:30	ICS-2: Medication administration procedures/ Injections/ IV Insertion ICS-2: Wound care/suture procedures Sterile Dressing Changes Suture/Removal GROUP A, B, C, D	Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
11:40-12:30	ICS-2: Medication administration procedures/ Injections/ IV Insertion ICS-2: Wound care/suture procedures Sterile Dressing Changes Suture/Removal GROUP A, B, C, D	Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
13:40-14:30	ICS-2: Medication administration procedures/ Injections/ IV Insertion ICS-2: Wound care/suture procedures Sterile Dressing Changes Suture/Removal GROUP E, F, G, H, I, J	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
14:40-15:30	ICS-2: Medication administration procedures/ Injections/ IV Insertion ICS-2: Wound care/suture procedures Sterile Dressing Changes Suture/Removal GROUP E, F, G, H, I, J	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
15:40-16:30	ICS-2: Medication administration procedures/ Injections/ IV Insertion ICS-2: Wound care/suture procedures Sterile Dressing Changes Suture/Removal GROUP E, F, G, H, I, J	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
16:40-17:30	ICS-2: Medication administration procedures/ Injections/ IV Insertion ICS-2: Wound care/suture procedures Sterile Dressing Changes Suture/Removal GROUP E, F, G, H, I, J	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
Wednesday	29 September		
08:40-09:30	STUDY TIME		
09:40-10:30	Eicosanoids and related compounds	Dr. Ergül Altundağ	IN CLASS/ MS Teams
10:40-11:30	Eicosanoids and related compounds	Dr. Ergül Altundağ	IN CLASS/ MS Teams
11:40-12:30	Pharmacotherapy in parasitic infections	Dr. Eren Sakallı	IN CLASS/ MS Teams
13:40-14:30	DNA viruses: Herpes viruses	Dr. Ufuk Hasdemir	MU UZEM
14:40-15:30	Hepatitis viruses	Dr. Ufuk Hasdemir	MU UZEM

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15:40-16:30	Pharmacogenetics	Dr. Ahmet İter Güney	MU UZEM
16:40-17:30	Pharmacogenetics	Dr. Ahmet İter Güney	MU UZEM
Thursday	30 September		
08:40-09:30	Pathology LAB: General principals of macroscopic evaluation (<u>slide lecture</u>)	Dr. Pelin Bağcı	MS Teams
09:40-10:30	Tissue renewal and repair: regeneration, healing and fibrosis	Dr. Pelin Bağcı	MS Teams
10:40-11:30	Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs	Dr. Pelin Bağcı	MS Teams
11:40-12:30	Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs	Dr. Pelin Bağcı	MS Teams
13:40-14:30	Pathology LAB: Cell response to injury and adaptive cell reactions and changes in the size, consistency, colour, and composition of organs	Dr. Pelin Bağcı	MS Teams
14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Friday	01 October		
08:40-09:30	Turkish For Medical Students-III (Interactive Session for Foreign Students)	Inst. Emine Özerinç	MS Teams
09:40-10:30	Turkish For Medical Students-III (Interactive Session for Foreign Students)	Inst. Emine Özerinç	MS Teams
10:40-11:30	ICS-2 Research: RPW – Material and Methods part of a Research Proposal <i>Contents of Material and Methods</i>	Dr. İlke Çetin Akçay	MS Teams
11:40-12:30	ICS-2 Research: RPW – Material and Methods part of a Research Proposal <i>Study population, sample and sampling methods</i>	Dr. İlke Çetin Akçay	MS Teams
13:40-14:30	ICS-2 Research: RPW – Material and Methods part of a Research Proposal <i>Important points in choosing the appropriate sampling method</i>	Dr. Ömür Çınar Elçi Dr. İlke Akçay	MS Teams

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14:40-15:30	ICS-2 Research: RPW – Material and Methods part of a Research Proposal <i>Source of data (Data collection tools)</i>	Dr. İlke Akçay	MS Teams
15:40-16:30	Immunogenetics of transplantation	Dr. Pınar Ata	MU UZEM
16:40-17:30	Immunogenetics of transplantation	Dr. Pınar Ata	MU UZEM
5th Week (04-08 October 2021)			
Monday	04 October		
08:40-09:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
09:40-10:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel	MU UZEM
14:40-15:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel	MU UZEM
15:40-16:30	RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses	Dr. Ufuk Hasdemir	MU UZEM
16:40-17:30	RNA viruses: Retroviruses and HIV	Dr. Ufuk Hasdemir	MU UZEM
Tuesday	05 October		
08:40-09:30	ICS-2: Basic Life Support Adult/Pediatric CPR Choking	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
09:40-10:30	ICS-2: Basic Life Support Adult/Pediatric CPR Choking	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
10:40-11:30	ICS-2: Basic Life Support Adult/Pediatric CPR Choking	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS
11:40-12:30	ICS-2: Basic Life Support Adult/Pediatric CPR Choking	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	IN CLASS

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13:40-14:30	ICS-2 Research: RPW – Material and Methods part of a Research Proposal <i>Variables</i>	Dr. İlke Akçay	IN CLASS
14:40-15:30	ICS-2 Research: RPW – Material and Methods part of a Research Proposal <i>Data analysis methods</i>	Dr. İlke Akçay	IN CLASS
15:40-16:30	ICS-2 Research: RPW – Research ethics and Research integrity principles	Dr. İlke Akçay	IN CLASS
16:40-17:30	ICS-2 Research: RPW – Research ethics and Research integrity principles	Dr. İlke Akçay	IN CLASS
Wednesday	06 October		
08:40-09:30	Health effects of tobacco	Dr. Ela Erdem Eralp	MU UZEM
09:40-10:30	Body temperature and its regulation	Dr. Hızır Kurtel	MU UZEM
10:40-11:30	Body temperature and its regulation	Dr. Hızır Kurtel	MU UZEM
11:40-12:30	Pathology of autoimmune disorders	Dr. Süheyla Bozkurt	MU UZEM
13:40-14:30	Autocoids	Dr. Zafer Gören	MU UZEM
14:40-15:30	Autocoids	Dr. Zafer Gören	MU UZEM
15:40-16:30	Autocoids	Dr. Zafer Gören	MU UZEM
16:40-17:30	ICS-2 Research: Meeting with mentor*	* Research groups are expected to meet their mentors during these hours. If the mentor's schedule is not available, another suitable time can be arranged.	
Thursday	07 October		
08:40-09:30	STUDY TIME		
09:40-10:30	STUDY TIME		
10:40-11:30	STUDY TIME		
11:40-12:30	Pharmacotherapy of viral infections	Dr. Eren Sakallı	IN CLASS
13:40-14:30	Drug-induced immune response and antiallergic treatment	Dr. Eren Sakallı	IN CLASS
14:40-15:30	Application of nuclear medicine and radiotherapy	Dr. Nahide Gökçora	IN CLASS
15:40-16:30	Microbiology of water, milk and air	Dr. Mümtaz Güran	IN CLASS

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16:40-17:30	Bioterrorism: a global threat	Dr. Mümtaz Güran	IN CLASS
Friday	08 October		
08:40-09:30	Health effects of tobacco	Dr. Ela Erdem Eralp	MU UZEM
09:40-10:30	ICS-2 Research: Meeting with mentor*	* Research groups are expected to meet their mentors during these hours. If the mentor's schedule is not available, another suitable time can be arranged.	
10:40-11:30	STUDY TIME		
11:40-12:30	STUDY TIME		
13:40-14:30	DNA viruses: Adenoviruses, Parvoviruses, Papavoviruses, and Poxviruses	Dr. Mümtaz Güran	MS Teams
14:40-15:30	Introduction to Family Medicine	Dr. Gülru Pemra Ünalın	MU UZEM
15:40-16:30	Physiology of pain	Dr. Alper Yıldırım	MU UZEM
16:40-17:30	Patient with fever and rash	Dr. Saliha Serap Çiççili	MU UZEM
6th Week (11-15 October 2021)			
Monday	11 October		
08:40-09:30	Haemodynamic disorders	Dr. Çiğdem Ataizi Çelikel	MU UZEM
09:40-10:30	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel	MU UZEM
10:40-11:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	MS Teams
11:40-12:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	MS Teams
13:40-14:30	RNA viruses: Orthomyxoviruses and Paramyxoviruses	Dr. Mümtaz Güran	IN CLASS (MED010)
14:40-15:30	RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses	Dr. Mümtaz Güran	IN CLASS (MED010)
15:40-16:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS (MED010)
16:40-17:30	Turkish For Medical Students-III (Foreign Students)	Inst. Emine Özerinç	IN CLASS (MED010)

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Tuesday	12 October		
08:40-09:30	ICS-2: First aid CPR-choking adult/infant	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	ICS Lab.
09:40-10:30	ICS-2: First aid CPR-choking adult/infant	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	ICS Lab.
10:40-11:30	ICS-2: First aid CPR-choking adult/infant	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	ICS Lab.
11:40-12:30	ICS-2: First aid CPR-choking adult/infant	Dr. Ayşe Atasoy Dr. Bülent Sezgin Dr. Amber Eker Dr. Nilüfer Güzoğlu Dr. Halil Eren Sakallı	ICS Lab.
13:40-14:30	Introduction to innate immune system	Dr. Tunç Akkoç	IN CLASS (MED001)
14:40-15:30	Major histocompatibility complex (MHC) molecules, antigen processing and presentation	Dr. Tunç Akkoç	IN CLASS (MED001)
15:40-16:30	Human microbiota	Dr. Mehmet Burak Aksu	IN CLASS (MED001)
16:40-17:30	Turkish For Medical Students-III (Interactive Session for Foreign Students)	Inst. Emine Özerinç	IN CLASS (MED001)
Wednesday	13 October		
08:40-09:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç	IN CLASS (MED001)
09:40-10:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç	IN CLASS (MED001)
10:40-11:30	Development of T cells, T lymphocyte signaling mechanisms and activation	Dr. Tunç Akkoç	IN CLASS (MED001)
11:40-12:30	Microbial toxins	Dr. Mehmet Burak Aksu	IN CLASS (MED001)

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13:40-14:30	Host parasite interactions	Dr. Mehmet Burak Aksu	IN CLASS (MED001)
14:40-15:30	Host parasite interactions	Dr. Mehmet Burak Aksu	IN CLASS (MED001)
15:40-16:30	Microbiology LAB: Examination of microbiota-A	Dr. Mehmet Burak Aksu Dr. Mümtaz Güran	Microbiology Lab.
16:40-17:30	Microbiology LAB: Examination of microbiota-B	Dr. Mehmet Burak Aksu Dr. Mümtaz Güran	Microbiology Lab.
17:40-18:30	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel	MU UZEM (In Class Broadcasting)
Thursday	14 October		
08:40-09:30	Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus	Dr. Mehmet Burak Aksu	IN CLASS (MED001)
09:40-10:30	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu	IN CLASS (MED001)
10:40-11:30	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu	IN CLASS (MED001)
11:40-12:30	Microbiology LAB: Examination of microbiota-A	Dr. Mehmet Burak Aksu Dr. Mümtaz Güran	Microbiology Lab.
13:40-14:30	Microbiology LAB: Examination of microbiota-B	Dr. Mehmet Burak Aksu Dr. Mümtaz Güran	Microbiology Lab.
14:40-15:30	B Lymphocyte: Development and biology	Dr. Tunç Akkoç	IN CLASS (MED001)
15:40-16:30	Cytokines	Dr. Tunç Akkoç	IN CLASS (MED001)
16:40-17:30	Cytokines	Dr. Tunç Akkoç	IN CLASS (MED001)
Friday	15 October		
08:40-09:30	Structure and function of complement system	Dr. Tunç Akkoç	IN CLASS (MED001)
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 (MED001)
10:40-11:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç	IN CLASS (MED001)

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11:40-12:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç	IN CLASS (MED001)
13:40-14:30	Microbiology LAB: Examination of helminths and medically important arthropods-A	Dr. Mehmet Burak Aksu Dr. Mümtaz Güran	Microbiology Lab.
14:40-15:30	Microbiology LAB: Examination of helminths and medically important arthropods-A	Dr. Mehmet Burak Aksu Dr. Mümtaz Güran	Microbiology Lab.
15:40-16:30	Microbiology LAB: Examination of helminths and medically important arthropods-B	Dr. Mehmet Burak Aksu Dr. Mümtaz Güran	Microbiology Lab.
16:40-17:30	Microbiology LAB: Examination of helminths and medically important arthropods-B	Dr. Mehmet Burak Aksu Dr. Mümtaz Güran	Microbiology Lab.
7th Week (18-22 October 2021)			
Monday	18 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		
Tuesday	19 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		

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14:40-15:30	STUDY TIME		
15:40-16:30	STUDY TIME		
16:40-17:30	STUDY TIME		
Wednesday	20 October		
08:40-09:30	Y2C1 THEORETICAL EXAM	Masoud AFSHANI	
09:40-10:30		Buse VAİZOĞLU	
10:40-11:30		Farzin ASHGARPOUR	
11:40-12:30		Nilüfer GÜZOĞLU Ergül MUTLU ALTUNDAĞ Mete ÖZKOÇ	
13:40-14:30	Committee Exam Feedback Session	Dr. Masoud Afshani	
14:40-15:30		Dr. Halil Eren Sakallı	
15:40-16:30			
16:40-17:30			