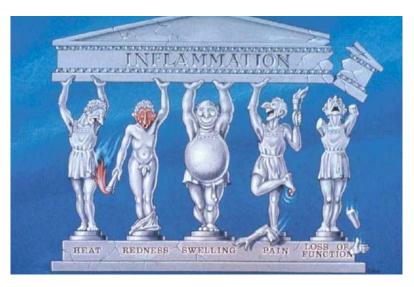


MARMARA UNIVERSITY – EASTERN MEDITERRANEAN UNIVERSITY INTERNATIONAL MEDICAL SCHOOL





CELL AND TISSUE INJURY - I

YEAR 2 COURSE 1 Aug 29th, 2016 – Oct 20th, 2016

Coordinator	of the	Course	2.1
Cooluliator	OI LIIC	Course	~

Instructor. Berfu Çerçi ÖNGÜN

Coordinator of Multidisciplinary Students' Lab.

Asisst. Prof., Mümtaz GÜRAN

Coordinator of Clinical Skill Lab.

Instructor. Berfu Çerçi ÖNGÜN

Coordinator of Assessment Unite

Asisst. Prof., Mümtaz GÜRAN, Assist. Prof. Dr. Mevhibe HOCAOĞLU, Asisst. Prof., İlke ÇETİN, Dr. Berfu ÇERÇİ ÖNGÜN

Coordinator of ICS Res. LAB.

Assist. Prof. Dr. Mevhibe HOCAOĞLU

Year 2 Coordinators

Assoc. Prof., Özgür Kasımay ÇAKIR & Instructor, Burak AKSU

Module Coordinator

Assoc. Prof., Özlem SARIKAYA

Introduction to Clinician Skills(ICS) Coordinators

Prof., Sibel KALAÇA, Assoc. Prof., Pemra ÜNALAN

Coordinator of Multidiciplinary Students' Lab.

Assoc. Prof., Betül KARADEMİR

Cooordinator of Assessment Unite

Asisst. Prof., Cevdet NACAR

Vice-Chief Co	Vice-Chief Coordinators		
Assessment Students' Affairs Asisst. Prof., Cevdet NACAR Asisst. Prof., Can ERZİK			
Chief Coordinator Assoc. Prof., Hasan YANANLI Coordinator of Medical Education Program Evaluation and Development Commission Prof., Berrak Ç. YEĞEN			
	Educational Consultant Assoc. Prof., Mehmet Ali GÜLPINAR		
Dean (EMU) Prof., Nahide GÖKÇORA Acting Dean (MU) Prof., Ömer GÜNAL			

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: 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 PARTIC	CIPA	ATING IN COURSE-2.1
Biochemistry		Microbiology
Biophysics		Nuclear Medicine
Child Health and Diseases		Pathology
Family Medicine		Pharmacology
Immunology		Physiology
Medical Genetics		

LECTURERS / TUTORS

Attila KARAALP, Professor of Clinical Pharmacology Ayşegül KARAHASAN, Professor of Microbiology Alper Yıldırım, Assist. Professor of Physiology Berfu Cerci ÖNGÜN. Instructor of Anatomy Ilke Cetin, Professor of Biostatistics Betül KARADEMİR, Assoc. Professor of Biochemistry Çiğdem ÇELİKEL, Professor of Pathology Elif DAĞLI, Professor of Child Health and Disease Güner SÖYLEDİR, Professor of Microbiology Hülya CABADAK, Assoc. Professor of Biophysics Inci ALİCAN, Professor of Physiology Ayşe GARİP, Assoc. Professor of Biophysics Hizir KURTEL, Professor of Physiology Ufuk Över Hasdemir, Proffessor of Medical Microbiology Nilgün Çerikçioğlu, Professor of Medical Microbiology Pelin Bağcı, Assoc. Proffessor of Medical Pathology Pinar Ata, Assoc. Proffessor of Medical Genetics

Mümtaz GÜRAN, Assist. Professor of Microbiology Nahide GÖKÇORA, Professor of Nuclear Medicine

Nurver Ülger, Assoc. Professor of Medical Microbiology
Pinar Mega TİBER, Assist. Professor of Biophysics
Rezzan GÜLHAN, Professor of Pharmacology
Sibel Sakarya, Prof. of Public Health
Süheyla BOZKURT, Assoc. Professor of Pathology
Zafer GÖREN, Professor of Pharmacology
Ahmet İlter Güney, Assist. Proffessor of Medical Genetics
Goncagül Haklar, Professor of Medical Biochemistry
Pemra Ünalan, Assoc.Professor of Family Medicine
Handan Kaya, Professor of Medical Pathology
İpek Erbarut, Assist. Proffessor of Medical Pathology
Medine Gülçebi İdriz Oğlu, Assist. Proffessor of Medical
Pharmacology

Mehmet Burak Aksu, Assist. Proffessor of Medical Microbiology

Saliha Serap Çifçili, Assoc. Proffessor of Family Medicine Mehmet Akman, Assoc. Proffessor of Family Medicine Tunç Akkoç, Proffessor of Pediatrics

Zeynep Arzu İlki, Assoc. Proffessor of Medical Microbiology

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	4		4
Immunology	12		12
Microbiology	24	6	30
Nuclear Medicine	2		2
Pathology	15	7	22
Pharmacology	18		18
Physiology	5		5
Medical Genetics	5		5
Subtotal	103	13	116
PBL Module			

ICS-2: Basic Clinical Skills, Human in Medicine, Students Research Activity	15	14	29
Communication in Turkish-III (Foreign Students)			
TOTAL	118	27	145

	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
	1st WEEK (29 Aug – 02 Sept, 2016)	
Monday	29 August	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
Tuesday	30 August	
08:40-09:30		
09:40-10:30		
10:40-11:30	HOLIDAY	
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		

Wednesday	31 August	
08:40-09:30		
09:40-10:30	Introduction to the course and opening lecture	Dr. Atila Karaalp
10:40-11:30	Introduction to pharmacology	Dr. Atila Karaalp
11:40-12:30	Routes of drug administration	Dr. Atila Karaalp
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		
16:40-17:30		
Thursday	01 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30	Pathogenesis of parasitic disease	Dr. Nurver Ülger
13:40-14:30	Blood and tissue protozoa	Dr. Nurver Ülger
14:40-15:30	Body temperature and its regulation	Dr. İnci Alican
15:40-16-30	Body temperature and its regulation	Dr. İnci Alican
16:40-17:30	Intestinal and urogenital protozoa	Dr. Nurver Ülger
Friday	02 September	
08:40-09:30		
09:40-10:30	Intestinal and tissue nematodes	Dr. Nurver Ülger
10:40-11:30	Cestodes and trematodes	Dr. Nurver Ülger
11:40-12:30	Intestinal and tissue nematodes	Dr. Nurver Ülger
13:40-14:30	Effects of the electromagnetic waves on human health	Dr. Ayşe Garip
14:40-15:30		

15:40-16-30		
16:40-17:30		
	2nd Week (September 05-09, 2016)	
Monday	05 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel
14:40-15:30	Physiology of microcirculation and edema formation	Dr. Hızır Kurtel
15:40-16-30		
16:40-17:30		
Tuesday	06 September	
08:40-09:30		
09:40-10:30		
10:40-11:30	Eicosanoids and related compounds	Dr. Betül Karademir
11:40-12:30	Eicosanoids and related compounds	Dr. Betül Karademir
13:40-14:30	Electromagnetic spectrum	Dr. Pınar Mega Tiber
14:40-15:30	Radioactivity: the decay law; physical half-life, biological halflife	Dr. Pınar Mega Tiber
15:40-16-30	Radioactivity: the decay law; physical half-life, biological halflife	Dr. Pınar Mega Tiber
16:40-17:30	Dosimetry, basic concepts	Dr. Pınar Mega Tiber
Wednesday	07 September	
08:40-09:30	Types of radiation	Dr. Pınar Mega Tiber

09:40-10:30	Types of radiation	Dr. Dinar Maga Tibor
		Dr. Pınar Mega Tiber
10:40-11:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber
11:40-12:30	Interaction of radiation with matter	Dr. Pınar Mega Tiber
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		
16:40-17:30		
Thursday	08 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30	Microbial pathogenicity and virulence	Dr. Zeynep Arzu İlki
13:40-14:30	Cultivation and identification of bacteria	Dr. Zeynep Arzu İlki
14:40-15:30	General pharmacokinetic principles-1	Dr. Rezzan Gülhan
15:40-16-30	General pharmacokinetic principles-2	Dr. Rezzan Gülhan
16:40-17:30		
Friday	09 September	
08:40-09:30		
09:40-10:30	General pharmacokinetic principles-3	Dr. Rezzan Gülhan
10:40-11:30	General pharmacokinetic principles-4	Dr. Rezzan Gülhan
11:40-12:30	Basic principles of drug toxicity	Dr. Rezzan Gülhan
13:40-14:30	Introduction to chemotherapeutics	Dr. Rezzan Gülhan
14:40-15:30	Antiseptics and disenfectants	Dr. Rezzan Gülhan
15:40-16-30	Drug-induced immune response and antiallergic treatment	Dr. Rezzan Gülhan

	3rd Week (12-16 September 2016)		
Monday	12 September	_	
08:40-09:30			
09:40-10:30			
10:40-11:30	HOLIDAY		
11:40-12:30			
13:40-14:30			
14:40-15:30			
15:40-16-30			
16:40-17:30			
Tuesday	13 September		
08:40-09:30			
09:40-10:30			
10:40-11:30			
11:40-12:30	HOLIDAY		
13:40-14:30			
14:40-15:30			
15:40-16-30			
16:40-17:30			
Wednesday	14 September		
08:40-09:30			
09:40-10:30			
10:40-11:30	HOLIDAY		
11:40-12:30	HOLIDAT		
13:40-14:30			

14:40-15:30		
15:40-16-30		
16:40-17:30		
Thursday	15 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30	HOLIDAY	
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
Friday	16 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30	HOLIDAY	
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
	4th Week (19-23 September 2016)	
Monday	19 September	
08:40-09:30		
06.40-05.50		
09:40-10:30		

10:40-11:30		
11:40-12:30	Mechanism of drug action	Dr. Zafer Gören
13:40-14:30	Mechanism of drug action	Dr. Zafer Gören
14:40-15:30	Autocoids	Dr. Zafer Gören
15:40-16-30		
16:40-17:30		
Tuesday	20 September	
08:40-09:30		
09:40-10:30	Autocoids	Dr. Zafer Gören
10:40-11:30	Autocoids	Dr. Zafer Gören
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
Wednesday	21 September	
08:40-09:30		
09:40-10:30		
10:40-11:30	Bioterrorism: a global threat	Dr. Ayşegül Karahasan
11:40-12:30	DNA viruses: Adenoviruses, Parvoviruses, Papavoviruses, and Poxviruses	Dr. Ayşegül Karahasan
13:40-14:30	Patient with fever and rash	Dr. Saliha Serap Çifçili
14:40-15:30	RNA viruses: Orthomyxoviruses and Paramyxoviruses	Dr. Ayşegül Karahasan
15:40-16-30	RNA viruses: Togaviruses, Bunyaviruses, Flaviviruses and other RNA viruses	Dr. Ayşegül Karahasan
16:40-17:30		
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Thursday	22 September	
08:40-09:30		
09:40-10:30	Transplantation pathology	Dr. Handan Kaya
10:40-11:30	Amyloidosis	Dr. Handan Kaya
11:40-12:30	Physiology of pain	Dr. Alper Yıldırım
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		
Friday	23 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Molecular mechanisms of necrosis and apoptosis	Dr. Ahmet Arman
14:40-15:30	Signal transduction of inflammation	Dr. Ahmet Arman
15:40-16-30		
16:40-17:30		
	5th Week (26-30 September 2016)	
Monday	26 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		

13:40-14:30	Pathology of hypersensitivity reactions	Dr. Süheyla Bozkurt
14:40-15:30	Pathology of autoimmune disorders	Dr. Süheyla Bozkurt
15:40-16-30	Basic principles of immunopathology	Dr. Süheyla Bozkurt
16:40-17:30		
Tuesday	27 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
Wednesday	28 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
Thursday	29 September	
08:40-09:30		
09:40-10:30		

10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
Friday	30 September	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Introduction to pathology	Dr. Çiğdem Ataizi Çelikel
14:40-15:30	Haemodynamic disorders	Dr. Çiğdem Ataizi Çelikel
15:40-16-30	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel
16:40-17:30	Thromboembolic disease	Dr. Çiğdem Ataizi Çelikel
	6th Week (03-07 October 2016)	
Monday	03 October	
08:40-09:30		
09:40-10:30	RNA viruses: Retroviruses and HIV	Dr. Ufuk Över Hasdemir
10:40-11:30	RNA viruses: Picornaviruses, Rhabdoviruses and Reoviruses	Dr. Ufuk Över Hasdemir
11:40-12:30	Mechanism of viral pathogenesis	Dr. Güner Söyledir
13:40-14:30	DNA viruses: Herpes viruses	Dr. Ufuk Över Hasdemir

14:40-15:30	Hepatitis viruses	Dr. Güner Söyledir
15:40-16-30	Microbial toxins	Dr. Güner Söyledir
16:40-17:30		
Tuesday	04 October	
08:40-09:30	Pharmacogenetics	Dr. Ahmet İlter Güney
09:40-10:30	Pharmacogenetics	Dr. Ahmet İlter Güney
10:40-11:30	Host parasite interactions	Dr. Güner Söyledir
11:40-12:30	Host parasite interactions	Dr. Güner Söyledir
13:40-14:30	Microbiology of water, milk and air	Dr. Nilgün Çerikçioğlu
14:40-15:30	Human microbiota	Dr. Nilgün Çerikçioğlu
15:40-16-30	ELECTIVE COURSE	
16:40-17:30	ELECTIVE COURSE	
Wednesday	05 October	
08:40-09:30		
09:40-10:30	Pharmacotherapy of viral infections	Dr. Medine İdriz Oğlu
10:40-11:30	Pharmacotherapy in parasitic infections	Dr. Medine İdriz Oğlu
11:40-12:30	Adaptive cell reactions and abnormal accumulations	Dr. İpek Erbarut
13:40-14:30	Acute inflammatory response	Dr. İpek Erbarut
14:40-15:30	Acute inflammatory response	Dr. İpek Erbarut
15:40-16-30	Pathology LAB: General principals of macroscopic evaluation (slide lecture)	Dr. İpek Erbarut
16:40-17:30		
Thursday	06 October	
08:40-09:30	Application of nuclear medicine and radiotherapy	Dr. Nahide Gökçora
09:40-10:30	Tissue renewal and repair: regeneration, healing and fibrosis	Dr. Pelin Bağcı

10:40-11:30	Pathology LAB: Changes in the size, consistency, colour, and composition of organs	Dr. Pelin Bağcı
11:40-12:30	Pathology LAB: Changes in the size, consistency, colour, and composition of organs	Dr. Pelin Bağcı
13:40-14:30	Pathology LAB: Cell response to injury and adaptive cell reactions	Dr. Pelin Bağcı
14:40-15:30	Pathology LAB : Cell response to injury and adaptive cell reactions	Dr. Pelin Bağcı
15:40-16-30	Pathology LAB : Cell response to injury and adaptive cell reactions	Dr. Pelin Bağcı
16:40-17:30	Tissue and organ response to radiation and genetic effects of radiation	Dr. Nahide Gökçora
Friday	07 October	
08:40-09:30	Introduction to primary care and family medicine	Dr. Mehmet Akman
09:40-10:30	ICS2:Research Proposal Presentations	Dr. Sibel Sakarya Dr. Mehmet Akman
10:40-11:30	ICS2:Research Proposal Presentations	Dr. Sibel Sakarya Dr. Mehmet Akman
11:40-12:30	ICS2:Research Proposal Presentations	Dr. Sibel Sakarya Dr. Mehmet Akman
13:40-14:30	ICS2:Research Proposal Presentations	Dr. Sibel Sakarya Dr. Mehmet Akman
14:40-15:30	ICS2:Research Proposal Presentations	Dr. Sibel Sakarya Dr. Mehmet Akman
15:40-16-30	ICS2:Research Proposal Presentations	Dr. Sibel Sakarya Dr. Mehmet Akman
16:40-17:30		
	7th Week (10-14 October 2016)	
Monday	10 October	
08:40-09:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya Dr. Mehmet Akman
09:40-10:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya Dr. Mehmet Akman
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10:40-11:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya Dr. Mehmet Akman
11:40-12:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya Dr. Mehmet Akman
13:40-14:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya Dr. Mehmet Akman
14:40-15:30	ICS-2:Student Research Activity	Dr. Sibel Sakarya Dr. Mehmet Akman
15:40-16-30	ICS-2:Student Research Activity	Dr. Sibel Sakarya Dr. Mehmet Akman
16:40-17:30		
Tuesday	11 October	
08:40-09:30		
09:40-10:30	Microbiology LAB: Normal body flora	Dr. Mümtaz Güran
10:40-11:30	Microbiology LAB: Examination of protozoa	Dr. Mümtaz Güran
11:40-12:30	Microbiology LAB: Examination of protozoa	Dr. Mümtaz Güran
13:40-14:30	Microbiology LAB: Examination of helminths and medically important arthropods	Dr. Mehmet Burak Aksu
14:40-15:30	Microbiology LAB : Examination of helminths and medically important arthropods	Dr. Mehmet Burak Aksu
15:40-16-30	ELECTIVE COURSE	
16:40-17:30	ELECTIVE COURSE	
Wednesday	12 October	
08:40-09:30	Miscellaneous viruses; Coronavirus, Flavivirus, Calicivirus	Dr. Mehmet Burak Aksu
09:40-10:30	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu
10:40-11:30	Laboratory diagnosis of viral infections	Dr. Mehmet Burak Aksu
11:40-12:30	Microbiology LAB: Normal body flora	Dr. Mümtaz Güran
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		
Thursday	13 October	
08:40-09:30	Introduction to innate immune system	Dr. Tunç Akkoç
09:40-10:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç
10:40-11:30	Chemokines, neutrophils and monocytes in innate immunity, immunoglobulins: Structure and function, antigen & antibody interactions	Dr. Tunç Akkoç
11:40-12:30	Major histocompatibility complex (MHC) molecules, antigen processing and presentation	Dr. Tunç Akkoç
13:40-14:30	Cytokines	Dr. Tunç Akkoç
14:40-15:30	Cytokines	Dr. Tunç Akkoç
15:40-16-30	Development of T cells, T lymphocyte signaling mechanisms and activation	Dr. Tunç Akkoç
16:40-17:30	B Lymphocyte: Development and biology	Dr. Tunç Akkoç
Friday	14 October	
08:40-09:30	Bridging innate and adaptive immunity dendritic cells, NK cells, NKT cells and other innate-like T and B lineages	Dr. Tunç Akkoç
09:40-10:30	Structure and function of complement system	Dr. Tunç Akkoç
10:40-11:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç
11:40-12:30	Immune responses to extracellular and intracellular infections	Dr. Tunç Akkoç
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

8th Week (17-21 October 2016)		
Monday	17 October	
08:40-09:30		
09:40-10:30	PRACTICAL EXAM	
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
Tuesday	18 October	
08:40-09:30		
09:40-10:30	PRACTICAL EXAM	
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
Wednesday	19 October	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		

14:40-15:30		
15:40-16-30		
16:40-17:30		
Thursday	20 October	
08:40-09:30		
09:40-10:30	Y2C1 TEORETICAL EXAM	
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		