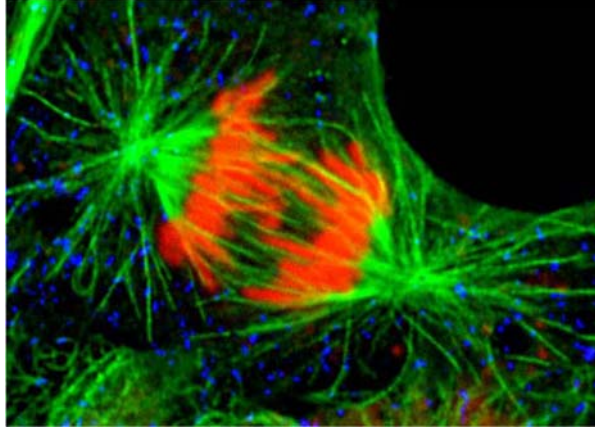




**MARMARA UNIVERSITY – EASTERN MEDITERRANEAN  
UNIVERSITY INTERNATIONAL MEDICAL SCHOOL**



**INTRODUCTION TO CELL AND CELLULAR REPLICATION  
YEAR 1 COURSE 1  
October 12<sup>th</sup>, 2020 – December 04<sup>th</sup>, 2020**

**Year 1 Coordinators**

Prof., Mustafa AKKİPRİK & Assoc. Prof., Dilek AKAKIN & Assist. Prof., Ergül MUTLU ALTUNDAĞ

**PBL Module Coordinator**

Prof., Özlem SARIKAYA  
Assist. Prof., Bülent SEZGİN

**Coordinator of Multidisciplinary Students' Lab.**

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

**Coordinator of Clinical Skill Lab.**

Prof., Pemra ÜNALAN  
Assoc. Prof., Nilüfer GÜZOĞLU

**Coordinator of ICS Res. Lab.**

Prof., Pemra ÜNALAN  
Assist. Prof., İlke AKÇAY

**Vice-Chief Coordinators**

**Assessment**

Asist. Prof., Cevdet NACAR  
Assist. Prof., Halil Eren SAKALLI

**Student Affairs**

Asist. Prof., Can ERZİK  
Inst. Yöner MERAY

**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**

Assoc. Prof., Mehmet Ali GÜLPINAR

**Dean (EMU)**

Prof., Nahide GÖKÇORA

**Dean (MU)**

Prof., Hakan GÜNDÜZ

### LEARNING OUTCOMES / COMPETENCIES

- A. Clinical Care: Qualified patient care and community oriented health care
  1. Basic clinical skills
  2. The organization and management of the patient and the patient care
  3. The organization and the management of health care delivery services / system
  4. Health promotion and disease prevention
- B. Medical Knowledge and Evidence-Based Medicine
  5. Appropriate information retrieval and management skills
  6. The integration of knowledge, critical thinking and evidence-based decision making
  7. Scientific methods and basic research skills
- C. Professional Attitudes and Values
  8. Communication skills and effective communication with patients / patient relatives
  9. Interpersonal relationships and team working
  10. Ethical and professional values, responsibilities
  11. Individual, social and cultural values and responsibilities
  12. Reflective practice and continuing development
  13. Healthcare delivery systems, management and community oriented health care
  14. Education and counseling

### PHASE-1 LEARNING OBJECTIVES

1. Understanding the normal structures and functions of human body
2. Correlating the basic concepts and principles to each other that define health and disease; applying basic concepts and principles to health and disease conditions
3. Developing clinical problem solving, clinical reasoning and evaluation skills by integrating biomedical, clinical, social and humanities knowledge
4. Gaining basic clinical skills by applications in simulated settings.
5. Awareness of the professional values in health and disease processes (professional, individual, societal) and acquisition necessary related skills
6. Evaluating critically and synthesizing all the medical evidence and perform respecting scientific, professional and ethical values
7. Acquisition skills in reflective thinking and practicing, being open to continuous individual / professional development.

### INTRODUCTION TO CELL AND CELLULAR REPLICATION

#### AIM and LEARNING OBJECTIVES of COURSE

**Aim:** At the end of this committee, first year students will gain knowledge about structure, function and mechanisms in human biology at the molecular and cellular levels with a specific emphasis on cellular replication and genetics.

**Learning Objectives:** At the end of this committee, students will,

- Identify and describe the development, structure and function of cell and its subcomponents
- Evaluate the biochemical process of the cell
- Understand cell division process and related mechanisms
- Describe the genetics mechanisms and protein biosynthesis
- Understand genetic variation in individuals
- Describe the molecular mechanisms of genetic inheritance and genetic basis of inherited disease

Acquire skills necessary to perform experimental applications

#### ASSESSMENT SYSTEM

Module examination: Written exam at the end of module (10 % of final score)  
 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

<b>DEPARTMENTS PARTICIPATING IN COURSE-1 &amp; MODULE-1</b>	
<ul style="list-style-type: none"> <li>• Biochemistry</li> <li>• Biophysics</li> <li>• Biostatistics</li> <li>• Chemistry</li> <li>• Histology &amp; Embryology</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Biology</li> <li>• Medical Genetics</li> <li>• Medical History and Ethics</li> <li>• Pediatrics</li> </ul>
<b>LECTURERS / TUTORS</b>	
<p>Ayşe KOZANSOY, Instructor, Medical English            Betül KARADEMİR, Assoc. Professor, Biochemistry            Bilgen Bilge GEÇKİNLİ, Assoc. Professor, Medical Genetics            Bülent SEZGİN, Assist. Prof., Internal Medicine            Cemal GÜRKAN, Instructor, Forensic Sciences            Cevdet NACAR, Assist. Professor, Biophysics            Ela Erdem ERALP, Assoc. Professor, Pediatrics            Ergül MUTLU ALTUNDAĞ, Assist. Professor, Biochemistry            Deren ÇEKER, Instructor, Medical Anthropology            Feriha ERCAN, Professor, Histology and Embryology            Goncagül HAKLAR, Professor, Medical Biochemistry            Gizem ŞANLITÜRK, Instructor, PBL            Huriye İCİL, Professor, Chemistry            İlke AKÇAY, Assist. Professor, Biostatistics            Maryam NOROUZBAHARİ, Instructor, PBL            Masoud Afshani, Asst. Prof., Histology and Embryology            Mustafa AKKİPRİK, Professor, Medical Biology</p>	<p>Mümtaz GÜRAN, Assist. Professor, Microbiology            Nazan DOĞRUER, Assist. Professor, Medical English            Nurtane KARAGİL, Instructor, Arts and Crafts            Önder ŞİRİKÇİ, Professor, Medical Biochemistry            Pınar Mega TİBER, Assoc. Professor, Biophysics            Saime BATIREL, Assoc. Professor, Medical Biochemistry            Serap ŞİRVANCI, Assoc. Professor, Histology and Embryology            Şefik GÖRKEY, Professor, History of Medicine and Ethics            Şerife Ç. SÖKMEZ, Instructor, Turkish Language            Şükrü TÜZMEN, Professor, Medical Biology            Turgay Bülent GÖKTÜRK, Assist. Professor, Atatürk's            Principles and History of Modern Turkey</p>
<b>READING / STUDYING MATERIALS</b>	
<ul style="list-style-type: none"> <li>• Basic Histology, Junqueira, Corneiro, 8th Ed., Lange</li> <li>• Başlangıcından Rönesansa Kadar Tıp Tarihi, Emine Atabek, Şefik Görkey</li> <li>• Biochemistry, Stryer, 4th Ed., Freeman</li> <li>• Biochemistry, Zubay, 3rd Ed., WCB</li> <li>• Color Textbook of Histology, Gatrner, Hiatt, WB Saunders</li> <li>• Harper's Biochemistry, Murray, Granner, 23rd Ed., Lange</li> <li>• Histology: A Text and Atlas, Ross, Romwell, 3rd, Lippincott</li> <li>• History of Medicine Ders Notları, Şefik Görkey</li> <li>• Leninger Principles of Biochemistry, Nelson, Cox, 3rd, Worth</li> <li>• Medicine: An Illustrated History, Albert S. Lyons, R. Joseph Petrucelli,</li> <li>• Molecular Biology of the Cell, Alberts, Bray, 6rd Ed., Garland</li> <li>• Physics, Giancoli, 4th Ed., Prentice Hall</li> <li>• The Cell: A Molecular Approach, Cooper, 2nd Ed., ASM Press</li> <li>• Türk Tıp Tarihi, Bedi Şeyhsuvaroğlu, Gönül Cantay.</li> </ul>	

SUMMARY OF THE COURSE 1.1			
Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Biochemistry	27	4	31
Biophysics	5		5
Biostatistics	6		6
Chemistry	20		20
Histology and Embryology	7	2	9
Medical Biology	34		34
Medical Genetics	1		1
Medical History and Ethics	12		12
Pediatrics	2		2
<b>Subtotal</b>	<b>114</b>	<b>6</b>	<b>120</b>
PBL Module	8		8
ICS-1: Introduction to Student Research and Computer Skills	7	4	11
ENGL131 - Medical English	14		14
HIST180 - Atatürk's Principles and the History of Turkish Renovation (for Turkish students)	12		12
TFMS101 – Turkish for Medical Students-I (Foreign Students)	28		28
<b>Elective Courses</b> MDCN181, MDCN182, MDCN125	10		10
<b>TOTAL</b>	<b>193</b>	<b>10</b>	<b>203</b>

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

		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
<b>1<sup>st</sup> Week (12 October - 16 October 2020)</b>			
<b>Monday</b>		<b>12 October</b>	
08:40-09:30		<b>OPENING CEREMONY OF THE ACADEMIC YEAR 2020-2021 AND FIRST LECTURE Starts at 09.00 am</b>	
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30		STUDY TIME	
14:40-15:30		Introduction to the course	Dr. Ergül Mutlu Altundağ* Inst. Yönter Meray*
15:40-16:30			
16:40-17:30			
<b>Tuesday</b>		<b>13 October</b>	
09:00-09:50		Origin of life	Dr. Şükrü Tüzmen*
10:00-10:50		Atatürk ilke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
11:00-11:50		Atatürk ilke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
13:00-13:50		The impact of Haydarpaşa Campus in Turkish Medical History	Dr. Şefik Görkey
14:00-14:50		STUDY TIME	
15:00-15:50		STUDY TIME	
<b>Wednesday</b>		<b>14 October</b>	
09:00-09:50		Molecular recognition process	Dr. Şükrü Tüzmen*
10:00-10:50		Cellular organisation of life	Dr. Şükrü Tüzmen*
11:00-11:50		Cellular organisation of life	Dr. Şükrü Tüzmen*
13:00-13:50		Biomolecules and water	Dr. Önder Şirikçi
14:00-14:50		Biomolecules and water	Dr. Önder Şirikçi
15:00-15:50		STUDY TIME	
<b>Thursday</b>		<b>15 October</b>	
09:00-09:50		STUDY TIME	
10:00-10:50		STUDY TIME	
11:00-11:50		STUDY TIME	
13:00-13:50		PBL Orientation	Dr. Bülent Sezgin*
14:00-14:50		PBL Orientation	

15:00-15:50		PBL Orientation	
<b>Friday</b>		<b>16 October</b>	
09:00-09:50		Turning points in History of Medicine	Dr. Şefik Görkey
10:00-10:50		Turning points in History of Medicine	Dr. Şefik Görkey
11:00-11:50		STUDY TIME	
13:00-13:50		STUDY TIME	
14:00-14:50		STUDY TIME	
15:00-15:50		STUDY TIME	
<b>2nd Week (19-23 October 2020)</b>			
<b>Monday</b>		<b>19 October</b>	
08:40-09:30		Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30			
10:40-11:30			
11:40-12:30			
13:40-14:30		Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30			
15:40-16:30		STUDY TIME	
16:40-17:30		STUDY TIME	
<b>Tuesday</b>		<b>20 October</b>	
09:00-09:50		Nucleic acids	Dr. Şükrü Tüzmen*
10:00-10:50		Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
11:00-11:50		Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
13:00-13:50		STUDY TIME	
14:00-14:50		STUDY TIME	
15:00-15:50		STUDY TIME	
<b>Wednesday</b>		<b>21 October</b>	
09:00-09:50		Nucleus and nuclear genome	Dr. Şükrü Tüzmen*
10:00-10:50		Genes and heredity	Dr. Şükrü Tüzmen*
11:00-11:50		Cell cycle	Dr. Şükrü Tüzmen*
13:00-13:50		Histotechniques	Dr. Serap Şirvancı
14:00-14:50		<b>ICS-1 Research:</b> Introduction to ICS-research	Dr. İlke Akçay*

15:00-15:50		<b>ICS-1 Research:</b> Philosophy of Research & Scientific approach	Dr. İlke Akçay*
16:00-16:50		<b>ICS-1 Research:</b> Global look to different research designs	Dr. İlke Akçay*
<b>Thursday</b>		<b>22 October</b>	
09:00-09:50		History of Anatomy	Dr. Şefik Görkey
10:00-10:50		Introduction to organic chemistry	Dr. Huriye İcil*
11:00-11:50		Chemical compounds	Dr. Huriye İcil*
13:00-13:50		Structure of carbohydrates	Dr. Önder Şirikçi
14:00-14:50		Structure of carbohydrates	Dr. Önder Şirikçi
15:00-15:50		History of Anatomy	Dr. Şefik Görkey
16:00-16:50		Solubility, pH and buffers	Dr. Önder Şirikçi
17:00-17:50		Solubility, pH and buffers	Dr. Önder Şirikçi
<b>Friday</b>		<b>23 October</b>	
09:00-09:50		Atoms and atomic theory, atomic properties and periodic table	Dr. Huriye İcil*
10:00-10:50		Microscope	Dr. Serap Şirvancı
11:00-11:50		Microscope	Dr. Serap Şirvancı
13:00-13:50		Chemical bonds: ionic and covalent	Dr. Huriye İcil*
14:00-14:50		Chemical reactions and equilibrium	Dr. Huriye İcil*
15:00-15:50		Chemical reactions and equilibrium	Dr. Huriye İcil*
<b>3rd Week (26-30 October 2020)</b>			
<b>Cyprus Local Time</b>	<b>Turkey Local Time</b>		
<b>Monday</b>		<b>26 October</b>	
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30	10:40-11:30		
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	STUDY TIME	
16:40-17:30	17:40-18:30	STUDY TIME	
<b>Tuesday</b>		<b>27 October</b>	

09:00-09:50	10:00-10:50	DNA replication	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
11:00-11:50	12:00-12:50	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
12:00-12:50	13:00-13:50	Structure of lipids	Dr. Goncagül Haklar
13:00-13:50	14:00-14:50	Structure of lipids	Dr. Goncagül Haklar
14:00-14:50	15:00-15:50	History of Physiology	Dr. Şefik Görkey
<b>Wednesday</b>		<b>28 October</b>	
09:00-09:50	10:00-10:50	DNA replication	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	RNA synthesis and processing	Dr. Şükrü Tüzmen*
11:00-11:50	12:00-12:50	RNA synthesis and processing	Dr. Şükrü Tüzmen*
13:00-13:50	14:00-14:50	Mitosis	Dr. Şükrü Tüzmen*
14:00-14:50	15:00-15:50	Meiosis	Dr. Şükrü Tüzmen*
15:00-15:50	16:00-15:50	Chromosome structure, function and anomalies	Dr. Şükrü Tüzmen*
<b>Thursday</b>		<b>29 October</b>	
09:00-09:50	10:00-10:50	<b>THE REPUBLIC DAY OF TURKEY</b>	
10:00-10:50	11:00-11:50		
11:00-11:50	12:00-12:50		
13:00-13:50	14:00-14:50		
14:00-14:50	15:00-15:50		
15:00-15:50	16:00-15:50		
<b>Friday</b>		<b>30 October</b>	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Amino acids	Dr. Önder Şirikçi
10:00-10:50	11:00-11:50	Amino acids	Dr. Önder Şirikçi
13:00-13:50	14:00-14:50	Acids and bases	Dr. Huriye İcil*
14:00-14:50	15:00-15:50	Acids and bases	Dr. Huriye İcil*
15:00-15:50	16:00-16:50	STUDY TIME	
<b>4th Week (02-06 November 2020)</b>			
<b>Monday</b>		<b>02 November</b>	
08:40-09:30	09:40-10:30		Inst. Şerife Ç. Sökmez*



09:40-10:30	10:40-11:30	Turkish for Medical Students-I (Foreign Students)	
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft ) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Inst. Deren Çeker*
16:40-17:30	17:40-18:30		
<b>Tuesday</b>		<b>03 November</b>	
09:00-09:50	10:00-10:50	Packaging chromosomal DNA	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
11:00-11:50	12:00-12:50	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
12:00-12:50	13:00-13:50	Protein structure and function-1	Dr. Betül Karademir
13:00-13:50	14:00-14:50	Protein structure and function-1	Dr. Betül Karademir
14:00-14:50	15:00-15:50	History of human experimentation	Dr. Şefik Görkey
15:00-15:50	16:00-16:50	Evolution of the concept of infection	Dr. Şefik Görkey
<b>Wednesday</b>		<b>04 November</b>	
09:00-09:50	10:00-10:50	Protein synthesis	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	Protein synthesis	Dr. Şükrü Tüzmen*
11:00-11:50	12:00-12:50	Cell division kinetics	Dr. Şükrü Tüzmen*
12:00-12:50	13:00-13:50	History of surgery	Dr. Şefik Görkey
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	PBL-1	Dr. Mümtaz Güran* Dr. İlke Akçay* Dr. Maryam Norouzbahari* Inst. Gizem Şanlıtürk*
15:00-15:50	16:00-16:50	PBL-1	
<b>Thursday</b>		<b>05 November</b>	
08:00-08:50	09:00-09:50	History of medical professionalism	Dr. Şefik Görkey
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	ICS-1 Research: Literature Review	Dr. İlke Akçay*
11:00-11:50	12:00-12:50	ICS-1 Research: Literature Review	Dr. İlke Akçay*
12:00-12:50	13:00-13:50	Protein structure and function-2	Dr. Betül Karademir
13:00-13:50	14:00-14:50	Protein structure and function-2	Dr. Betül Karademir
14:00-14:50	15:00-15:50	STUDY TIME	

Friday		06 November	
08:00-08:50	09:00-09:50	History of Medicine in Seljukid and Ottoman Ages	Dr. Şefik Görkey
09:00-09:50	10:00-10:50	Cellular organelles and inclusions at LM and EM level	Dr. Feriha Ercan
10:00-10:50	11:00-11:50	Cellular organelles and inclusions at LM and EM level	Dr. Feriha Ercan
13:00-13:50	14:00-14:50	Chemical kinetics and reaction mechanisms	Dr. Huriye İcil*
14:00-14:50	15:00-15:50	Chemical kinetics and reaction mechanisms	Dr. Huriye İcil*
15:00-15:50	16:00-16:50	STUDY TIME	
5th Week (09 – 13 November 2020)			
Monday		09 November	
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30	10:40-11:30		
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft ) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Inst. Deren Çeker*
16:40-17:30	17:40-18:30		
Tuesday		10 November	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
11:00-11:50	12:00-12:50	STUDY TIME	
12:00-12:50	13:00-13:50	Introduction to biophysics – I	Dr. Pınar Mega Tiber
13:00-13:50	14:00-14:50	Introduction to biophysics – I	Dr. Pınar Mega Tiber
14:00-14:50	15:00-15:50	STUDY TIME	
Wednesday		11 November	
09:00-09:50	10:00-10:50	Introduction to genetics	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	Fundamentals to Mendelian genetics	Dr. Şükrü Tüzmen*
11:00-11:50	12:00-12:50	Viruses, plasmids, transposable genetic elements	Dr. Şükrü Tüzmen*
12:00-12:50	13:00-13:50	Enzymes: Introduction	Dr. Betül Karademir*
13:00-13:50	14:00-14:50	Enzymes: Introduction	Dr. Betül Karademir*
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	PBL-2	Dr. Mümtaz Güran* Dr. İlke Akçay*
16:00-16:50	17:00-17:50	PBL-2	Dr. Maryam Norouzbahari* Inst. Gizem Şanlıtürk*

<b>Thursday</b>		<b>12 November</b>	
09:00-09:50	10:00-10:50	Structure of nucleic acids	Dr. Ergül Mutlu Altundağ*
10:00-10:50	11:00-11:50	Enzymes: Mechanism of action	Dr. Betül Karademir*
11:00-11:50	12:00-12:50	Enzymes: Mechanism of action	Dr. Betül Karademir*
12:00-12:50	13:00-13:50	Nucleus and cell division	Dr. Feriha Ercan
13:00-13:50	14:00-14:50	Nucleus and cell division	Dr. Feriha Ercan
14:00-14:50	15:00-15:50	<b>ICS-1 Research:</b> Announcement of Research Groups	Dr. İlke Akçay*
15:00-15:50	16:00-16:50	<b>ICS-1 Research:</b> Group Warm-up activities	Dr. İlke Akçay*
16:00-16:50	16:00-16:50	STUDY TIME	
<b>Friday</b>		<b>13 November</b>	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Enzymes: Regulation	Dr. Betül Karademir*
10:00-10:50	11:00-11:50	Enzymes: Regulation	Dr. Betül Karademir*
13:00-13:50	14:00-14:50	Thermochemistry (chemical energetics)	Dr. Huriye İcil*
14:00-14:50	15:00-15:50	Thermochemistry (chemical energetics)	Dr. Huriye İcil*
15:00-15:50	16:00-16:50	STUDY TIME	
<b>6th Week (16– 20 November 2020)</b>			
<b>Monday</b>		<b>16 November</b>	
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30	10:40-11:30		
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft ) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Inst. Deren Çeker*
16:40-17:30	17:40-18:30		
<b>Tuesday</b>		<b>17 November</b>	
09:00-09:50	10:00-10:50	Recombination	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
11:00-11:50	12:00-12:50	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
12:00-12:50	13:00-13:50	Introduction to biophysics – II	Dr. Pınar Mega Tiber
13:00-13:50	14:00-14:50	Introduction to biophysics – II	Dr. Pınar Mega Tiber

14:00-14:50	15:00-15:50	ICS-1 Research: Announcement of mentors	Dr. İlke Akçay*
15:00-15:50	16:00-16:50	ICS-1 Research: Theme of ICS-1 Research projects	Dr. İlke Akçay*
<b>Wednesday</b>		<b>18 November</b>	
09:00-09:50	10:00-10:50	Mutations and polymorphisms	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	DNA Repair	Dr. Şükrü Tüzmen*
11:00-11:50	12:00-12:50	Population genetics	Dr. Şükrü Tüzmen*
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	PBL-3	Dr. Masoud Afshani* Dr. İlke Akçay*
15:00-15:50	16:00-16:50	PBL-3	Dr. Maryam Norouzbahari* Inst. Gizem Şanlıtürk*
<b>Thursday</b>		<b>19 November</b>	
08:00-08:50	09:00-09:50	Cell death and molecular mechanisms	Dr. Mustafa Akkiprik
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	What is statistics and biostatistics?	Dr. İlke Akçay*
11:00-11:50	12:00-12:50	Statistics in medical research	Dr. İlke Akçay*
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
<b>Friday</b>		<b>20 November</b>	
08:00-08:50	09:00-09:50	History of Medicine in Turkish Republic	Dr. Şefik Görkey
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	Designing research	Dr. İlke Akçay*
11:00-11:50	12:00-12:50	Types of data	Dr. İlke Akçay*
13:00-13:50	14:00-14:50	Solubility and complex ion equilibrium	Dr. Huriye İcil*
14:00-14:50	15:00-15:50	Solubility and complex ion equilibrium	Dr. Huriye İcil*
15:00-15:50	16:00-16:50	STUDY TIME	
<b>7th Week (23-27 November 2020)</b>			
<b>Monday</b>		<b>23 November</b>	
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30	10:40-11:30		
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft ) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Inst. Deren Çeker*
16:40-17:30	17:40-18:30		

<b>Tuesday</b>		<b>24 November</b>	
09:00-09:50	10:00-10:50	Detection of nucleic acids	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
11:00-11:50	12:00-12:50	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
13:00-13:50	14:00-14:50	Electrochemistry: oxidation and reduction	Dr. Huriye İcil*
14:00-14:50	15:00-15:50	Electrochemistry: oxidation and reduction	Dr. Huriye İcil*
15:00-15:50	16:00-16:50	Structure of proteins	Dr. Huriye İcil*
<b>Wednesday</b>		<b>25 November</b>	
09:00-09:50	10:00-10:50	Regulation of gene expression	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	Regulation of gene expression	Dr. Şükrü Tüzmen*
11:00-11:50	12:00-12:50	Tools of cell biology	Dr. Şükrü Tüzmen*
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	PBL-4	Dr. Mümtaz Güran* Dr. İlke Akçay*
15:00-15:50	16:00-16:50	PBL-4	Dr. Maryam Norouzbahari* Inst. Gizem Şanlıtürk*
<b>Thursday</b>		<b>26 November</b>	
08:00-08:50	09:00-09:50	Molecular basis of disease	Dr. Mustafa Akkiprik
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	Molecular transmission of genetic information	Dr. Ergül Mutlu Altundağ*
11:00-11:50	12:00-12:50	Molecular transmission of genetic information	Dr. Ergül Mutlu Altundağ*
12:00-12:50	13:00-13:50	Mechanism of signal transduction	Dr. Saime Batirel*
13:00-13:50	14:00-14:50	Mechanism of signal transduction	Dr. Saime Batirel*
14:00-14:50	15:00-15:50	<b>ICS-1 Research:</b> Topic and Research Question	Dr. İlke Akçay*
15:00-15:50	16:00-15:50	<b>ICS-1 Research:</b> Topic and Research Question	Dr. İlke Akçay*
<b>Friday</b>		<b>27 November</b>	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	Describing the data with graphics	Dr. İlke Akçay*
11:00-11:50	12:00-12:50	Describing the data with numbers	Dr. İlke Akçay*
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	Cellular effects of tobacco use	Dr. Ela Erdem Eralp
14:00-14:50	15:00-15:50	Cellular effects of tobacco use	Dr. Ela Erdem Eralp
<b>8th Week (30 November-04 December 2020)</b>			
<b>Monday</b>		<b>30 November</b>	

08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30	10:40-11:30		
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft ) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Inst. Deren Çeker*
16:40-17:30	17:40-18:30		
<b>Tuesday</b>		<b>01 December</b>	
08:00-08:50	09:00-09:50	Biochemistry LAB: Urease	Dr. Ergül Mutlu Altundağ*
09:00-09:50	10:00-10:50	Biochemistry LAB: Urease	Dr. Ergül Mutlu Altundağ*
10:00-10:50	11:00-11:50	Cytogenetics	Dr. Bilgen Bilge Geçkinli
13:00-13:50	14:00-14:50	High energy compounds	Dr. Huriye İcil*
14:00-14:50	15:00-15:50	Structure of lipids	Dr. Huriye İcil*
15:00-15:50	16:00-15:50	Structure of carbohydrates	Dr. Huriye İcil*
<b>Wednesday</b>		<b>02 December</b>	
09:00-09:50	10:00-10:50	Biochemistry LAB: Spectrophotometer	Dr. Ergül Mutlu Altundağ*
10:00-10:50	11:00-11:50	Biochemistry LAB: Spectrophotometer	Dr. Ergül Mutlu Altundağ*
11:00-11:50	12:00-12:50	STUDY TIME	
13:00-13:50	14:00-14:50	Chromosome structure, function and anomalies	Dr. Şükrü Tüzmen*
14:00-14:50	15:00-15:50	Multifactorial inheritance	Dr. Şükrü Tüzmen*
15:00-15:50	16:00-15:50	Information content of DNA	Dr. Cevdet Nacar
<b>Thursday</b>		<b>03 December</b>	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
11:00-11:50	12:00-12:50	STUDY TIME	
13:00-13:50	14:00-14:50	Histology LAB: Cell types	Dr. Feriha Ercan Dr. Masoud Afshani*
14:00-14:50	15:00-15:50	Histology LAB: Cell division	Dr. Feriha Ercan Dr. Masoud Afshani*
15:00-15:50	16:00-15:50	STUDY TIME	
<b>Friday</b>		<b>04 December</b>	
09:00-09:50	10:00-10:50	Posttranscriptional and posttranslational modifications	Dr. Ergül Mutlu Altundağ*
10:00-10:50	11:00-11:50	Posttranscriptional and posttranslational modifications	Dr. Ergül Mutlu Altundağ*
11:00-11:50	12:00-12:50	Information about the online exam	Dr. Halil Eren Sakallı*

13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-15:50	STUDY TIME	
<b>9<sup>th</sup> Week (07 December -11 December 2020)</b>			
<b>Monday</b>		<b>07 December</b>	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
13:40-14:30	14:40-15:30	STUDY TIME	
14:40-15:30	15:40-16:30	STUDY TIME	
15:40-16:30	16:40-17:30	STUDY TIME	
16:40-17:30	17:40-18:30	STUDY TIME	
<b>Tuesday</b>		<b>08 December</b>	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-15:50	STUDY TIME	
<b>Wednesday</b>		<b>09 December</b>	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
11:00-11:50	12:00-12:50	STUDY TIME	
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-15:50	STUDY TIME	
<b>Thursday</b>		<b>10 December</b>	
09:00-09:50	10:00-10:50	<b>Y1C1 THEORETICAL EXAM</b>	
10:00-10:50	11:00-11:50		
11:00-11:50	12:00-12:50		
13:00-13:50	14:00-14:50		
14:00-14:50	15:00-15:50		
15:00-15:50	16:00-15:50		
<b>Friday</b>		<b>11 December</b>	
09:00-09:50	10:00-10:50		
10:00-10:50	11:00-11:50		
11:00-11:50	12:00-12:50		
13:00-13:50	14:00-14:50		
14:00-14:50	15:00-15:50		
15:00-15:50	16:00-15:50		

Last updated on 14 January, 2021