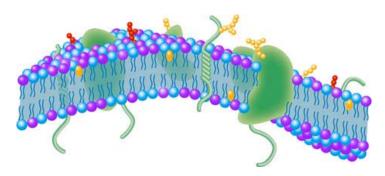
"Course programs may change during committee by International Joint Medicine Program administration if deemed necessary."



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





### **CELLULAR METABOLISM AND TRANSPORT YEAR 1 COURSE 2** December 05<sup>th</sup>, 2022 – January 19<sup>th</sup>, 2023

#### **Year 1 Coordinators**

Prof. Mustafa AKKİPRİK & Prof. Dilek AKA	AKIN & Assoc. Prof. Ergül MUTLU ALTUNDAĞ
PBL Module Coordinator Prof. Rezzan Gülhan	Coordinator of Multidiciplinary Students' Lab.
Assist. Prof. Bülent SEZGİN	Prof. Betül YILMAZ
	Assoc. Prof. Ergül MUTLU ALTUNDAĞ
Coordinator of Clinical Skill Lab.	Coordinator of ICS Res. Lab.
Prof. Pemra ÜNALAN	Prof. Pemra ÜNALAN
Assoc. Prof. Nilüfer GÜZOĞLU	Assist. Prof. İlke AKÇAY
Vice-Chief	Coordinators
Assessment	Student Affairs
Asisst. Prof. Cevdet NACAR	Asisst. Prof. Can ERZİK
Assist. Prof. Halil Eren SAKALLI	Inst. Ayşen ŞEKERİM
Chief Coordinator	Coordinator of Medical Education Program
Prof. Hasan R. YANANLI	Evaluation and Development Commission
Assist. Prof. Masoud AFSHANİ	Prof. Harika ALPAY
	the Joint Program an Ümit ŞEHİRLİ

Dean (MU)

Prof. Süleyman Ümit ŞEHİRLİ

Dean (EMU)

Prof. Nahide GÖKÇORA

## "Course programs may change during committee by International Joint Medicine Program administration if deemed necessary."

#### **LEARNING OUTOMES / 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 healthcare
- 14. Education and counseling

#### **PHASE-1 LEARNING OBJECTIVES**

- 1. Understanding the normal structures and functions of human body
- 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
- 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 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 and Endocrine Disorders

Year 3, Course 5: Urinary and Reproductive System and Related Disorders

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#### CELLULAR METABOLISM AND TRANSPORT

#### AIM and LEARNING OBJECTIVES of COURSE

**Aim:** At the end of this committee, first year students will gain knowledge about the metabolic pathways within the cell, structure of the cell membrane and transport mechanisms.

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

- acquire knowledge related to structural characteristics, functions and regulation of enzymes and coenzymes
- understand the ATP synthesis and its effect on metabolic pathways
- describe the constituents and reactions of metabolic pathways within the cell
- understand membrane structure and its function, physical principles of transport and signaling mechanisms both within and among the cells
- 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

#### **DEPARTMENTS PARTICIPATING IN COURSE-1.2 & MODULE-1.2**

- Biochemistry
- Biophysics
- Biostatistics
- Cardiovascular Surgery
- Medical Biology

- Medical Education
- Ophtalmology
- Physiology
- Urology

#### **LECTURERS / TUTORS**

Adil Şeytanoğlu, Assist. Prof., Molecular Biology and Genetics

Alper Yıldırım, Assoc. Prof., Physiology

Aslı Gönenç, Inst., Medical English

Ayşe Kozansoy, Inst., Medical English

Ayşe Mine Yılmaz, Inst., Medical Biochemistry

Banu Aydın Omay, Assoc. Prof., Biophysics

Berrak Yeğen, Prof., Physiology

Cemal Gürkan, Inst., Dr., Forensic Sciences

Cevdet Nacar, Assist. Prof., Biophysics

Deren Çeker, Inst., Dr., Medical Anthropology

Emine Özerinç, Inst., Turkish Language

Ergül Mutlu Altundağ, Assoc., Prof., Medical Biochemistry

Goncagül Haklar, Prof., Medical Biochemistry

Hülya Cabadak Prof., Biophysics
İlke Akçay, Assist. Prof., Biostatistics
Mustafa Akkiprik, Prof., Medical Biology
Mustafa Batıbeniz, Inst., Arts and Crafts
Özgür Kasımay, Prof., Physiology
Pınar Mega Tiber, Assoc. Professor of Biophysics
Saime Batırel, Assoc. Prof., Medical Biochemistry
Sinem Yıldız İnanıcı, Assist. Prof., Medical Education
Şerife Ç. Sökmez, Inst., Turkish Language
Turgay Bülent Göktürk, Assist. Prof., Atatürk's
Principles and History of Modern Turkey

#### **READING / STUDYING MATERIALS**

- Biochemistry, Stryer, 4th Ed., Freeman
- Biochemistry, Zubay, 3rd Ed., WCB
- Harper's Biochemistry, Murray, Granner, 23rd Ed., Lange Interscience, New Jersey 2003
- Introduction to Biostatistics For Health Sciences, Micheal R. Chernick, Robert H. Friss, Willey
- Lehninger Principles of Biochemistry, Nelson, Cox, 3rd edition, Worth
- Medical Statistics at a Glance, Aviva Petrie, Caroline Sabin, Blackwell Science, London 2003
- Physics, Giancoli, 4th Ed., Prentice Hall
- Practical Statistics For Medical Research, Douglas Altman, Chapman & Hall, London 1995
- Principles of Physiology, Bern and Levy, 4th Ed.

- Temel Biyoistatistik, Mustafa Şenocak, Çağlayan Kitapevi, İstanbul 1990
- Textbook of Physiology, Guyton and Hall , 10th Ed.
- The Cell: A Molecular Approach, Cooper, 2nd Ed., ASM Press
- Molecular Biology of the Cell, Alberts et al. 3rd Ed., Garland

SUI	MMARY OF THE COURSE	1.2	
Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Biochemistry	26	9	35
Biophysics	20		20
Biostatistics	10		10
Medical Biology	4		4
Physiology	8	2	10
Subtotal	68	11	79
PBL Module	8		8
ICS-1: Introduction to Student Research and Computer Skills	10	2	12
ICS-1: First aid	2	10	12
ENGL131 - Medical English	12		12
<b>HIST180 -</b> Atatürk's Principles and the History of Turkish Renovation (for Turkish students)	12		12
TFMS101 – Turkish for Medical Students-I (Foreign Students)	24		24
TFMS101 - Turkish for Medical Students-I (Interactive session)	7		7
Elective Courses MDCN181, MDCN182, MDCN125	8		8
TOTAL	151	23	174

		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	LECTURE PLATFORM
		1st Week (05 -09 Dec	ember 2022)	
Cyprus Local Time	Turkey Local Time			
Mon	day	05 December		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Turkish for Medical Students-I (Foreign	Inst Sorifo C Sökmaz	IN CLASS
10:40-11:30	11:40-12:30	tudents)	Inst. Şerife Ç. Sökmez	IN CLASS
11:40-12:30	12:40-13:30			
13:40-14:30	14:40-15:30	Madical Fastish (Cr. 1.9. Cr. 2)	Inst. Aslı Gönenç	IN CLASS
14:40-15:30	15:40-16:30	Medical English (Gr 1 & Gr 2)	Inst. Ayşe Kozansoy	IN CLASS
15:40-16:30	16:40-17:30	Elective Courses	Dr. Cemal Gürkan	
16:40-17:30	17:40-18:30	MDCN-181-Forensic Sciences) MDCN-182-Art and Craft ) MDCN-125-Medical Anthropology)	Inst.Mustafa Batıbeniz Dr. Deren Çeker	IN CLASS
Tues	day	06 December		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	Introduction to the course	Dr. Ergül Mutlu Altundağ	IN CLASS
10:40-11:30	11:40-12:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS-TEAMS
11:40-12:30	12:40-13:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS-TEAMS
13:40-14:30	14:40-15:30	Homeostasis	Dr. Berrak Yegen	MS-TEAMS
14:40-15:30	15:40-16:30	Physical characteristics of membrane structure and function-online	Dr. Banu Aydın Omay	MS-TEAMS
15:40-16:30	16:40-17:30	Membrane proteins	Dr. Banu Aydın Omay	MS-TEAMS
16:40-17:30	17:40-18:30	STUDY TIME		
Wedn	esday	07 December		

	_			
09:40-10:30	10:40-11:30	Turkish For Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	11:40-12:30	Turkish For Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	12:40-13:30	Turkish For Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	14:40-15:30	CSL-1 Medical and surgical asepsis	Dr. Bülent Sezgin	IN CLASS
14:40-15:30	15:40-16:30	<b>CSL-1</b> Hand hygiene procedure & Wear and remove sterile gloves	- Dr. Nilüfer Güzoğlu	
15:40-16:30	16:40-17:30	CSL-1 Hand hygiene procedure & Wear and remove sterile gloves	Dr.Amber Eker Dr.Bülent Sezgin	IN CLASS
16:40-17:30	17:40-18:30	<b>CSL-1</b> Hand hygiene procedure & Wear and remove sterile gloves	Dr. Ayşe Atasoylu	
Thur	sday	08 December		
08:40-09:30	09:40-10:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. İlke Akçay Inst. Hazal Dinçyürek	IN CLASS
09:40-10:30	10:40-11:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. İlke Akçay Inst. Hazal Dinçyürek	IN CLASS
10:40-11:30	11:40-12:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. İlke Akçay Inst. Hazal Dinçyürek	IN CLASS
11:40-12:30	12:40-13:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. İlke Akçay Inst. Hazal Dinçyürek	IN CLASS
13:40-14:30	14:40-15:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. İlke Akçay Inst. Hazal Dinçyürek	IN CLASS
14:40-15:30	15:40-16:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. İlke Akçay Inst. Hazal Dinçyürek	IN CLASS

15:40-16:30	16:40-17:30	STUDY TIME		
16:40-17:30	17:40-18:30	STUDY TIME		
Frid	lay	09 December		
08:40-09:30	09:40-10:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. İlke Akçay Inst. Hazal Dinçyürek	IN CLASS
09:40-10:30	10:40-11:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. İlke Akçay Inst. Hazal Dinçyürek	IN CLASS
10:40-11:30	11:40-12:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. İlke Akçay Inst. Hazal Dinçyürek	IN CLASS
11:40-12:30	12:40-13:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. İlke Akçay Inst. Hazal Dinçyürek	IN CLASS
13:40-14:30	14:40-15:30	Bioelectric potentials	Dr. Berrak Yegen	MS-TEAMS
14:40-15:30	15:40-16:30	Bioelectric potentials	Dr. Berrak Yegen	MS-TEAMS
15:40-16:30	16:40-17:30	STUDY TIME		
16:40-17:30	17:40-18:30	STUDY TIME		
	•	2nd Week (12 -16 Dec	ember 2022)	,
Cyprus Local Time	Turkey Local Time			
Mon	day	12 December		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Turkish for Medical Students-I (Foreign	Inst. Şerife Ç. Sökmez	INI CI ASS
10:40-11:30	11:40-12:30	Students)	ilist. şerile Ç. Sokmez	IN CLASS
11:40-12:30	12:40-13:30			
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Inst. Aslı Gönenç	IN CLASS

14:40-15:30	15:40-16:30		Inst. Ayşe Kozansoy	
15:40-16:30	16:40-17:30	STUDY TIME		
16:40-17:30	17:40-18:30	STUDY TIME		
Tues	day	13 December		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	STUDY TIME		
10:40-11:30	11:40-12:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	IN CLASS
11:40-12:30	12:40-13:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	IN CLASS
13:40-14:30	14:40-15:30	Physical principles: Diffusion and facilitated transport	Dr. Hülya Cabadak	IN CLASS
14:40-15:30	15:40-16:30	Physical principles: Diffusion and facilitated transport	Dr. Hülya Cabadak	IN CLASS
15:40-16:30	16:40-17:30	Active transport and secondary active transport	Dr. Hülya Cabadak	IN CLASS
16:40-17:30	17:40-18:30	STUDY TIME		
Wedne	esday	14 December		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	Coupling of biological reactions with high energy metabolite	Dr. Hülya Cabadak	IN CLASS
10:40-11:30	11:40-12:30	Coupling of biological reactions with high energy metabolite	Dr. Hülya Cabadak	IN CLASS
11:40-12:30	12:40-13:30	Energetics of electron transport	Dr. Hülya Cabadak	IN CLASS
13:40-14:30	14:40-15:30	Introduction to statistical analysis	Dr. İlke Akçay	IN CLASS
14:40-15:30	15:40-16:30	Sampling, distribution and estimation	Dr. İlke Akçay	IN CLASS
15:40-16:30	16:40-17:30	STUDY TIME		
16:40-17:30	17:40-18:30	STUDY TIME		
Thurs	sday	15 December		

08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Y2C2 THEORETICAL EXAM		
10:40-11:30	11:40-12:30			
11:40-12:30	12:40-13:30			
13:40-14:30	14:40-15:30	Introduction to metabolism and metabolic control	Dr. Goncagül Haklar	IN CLASS
14:40-15:30	15:40-16:30	Introduction to metabolism and metabolic control	Dr. Goncagül Haklar	IN CLASS
15:40-16:30	16:40-17:30	Role of organelles in the metabolism	Dr. Goncagül Haklar	IN CLASS
16:40-17:30	17:40-18:30	Overview of glycolysis	Dr. Goncagül Haklar	IN CLASS
Frid	lay	16 December		
08:40-09:30	09:40-10:30	Reactions of glycolysis	Dr. Goncagül Haklar	IN CLASS
09:40-10:30	10:40-11:30	Reactions of glycolysis	Dr. Goncagül Haklar	IN CLASS
10:40-11:30	11:40-12:30	Regulation of glycolysis	Dr. Goncagül Haklar	IN CLASS
11:40-12:30	12:40-13:30	Regulation of glycolysis	Dr. Goncagül Haklar	IN CLASS
13:40-14:30	14:40-15:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar	IN CLASS
14:40-15:30	15:40-16:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar	IN CLASS
15:40-16:30	16:40-17:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar	IN CLASS
16:40-17:30	17:40-18:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar	IN CLASS
		3rd Week (19-23 Dece	mber 2022)	
Cyprus Local Time	Turkey Local Time			
Mon	day	19 December		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
10:40-11:30	11:40-12:30			

11:40-12:30	12:40-13:30			
13:40-14:30	14:40-15:30	Madical Facilish (Cr. 1.9. Cr. 2)	Inst. Aslı Gönenç	IN CLASS
14:40-15:30	15:40-16:30	Medical English (Gr 1 & Gr 2)	Inst. Ayşe Kozansoy	IN CLASS
15:40-16:30	16:40-17:30	STUDY TIME		
16:40-17:30	17:40-18:30	STUDY TIME		
Tues	day	20 December		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	STUDY TIME		
10:40-11:30	11:40-12:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS-TEAMS
11:40-12:30	12:40-13:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS-TEAMS
13:40-14:30	14:40-15:30	Electrochemical potentials, Nernst potential	Dr. Banu Aydın Omay	MS-TEAMS
14:40-15:30	15:40-16:30	Membrane potentials and action potential	Dr. Pınar Mega Tiber	MS-TEAMS
15:40-16:30	16:40-17:30	Membrane potentials and action potential	Dr. Pınar Mega Tiber	MS-TEAMS
16:40-17:30	17:40-18:30	STUDY TIME		
Wedn	esday	21 December		
08:40-09:30	09:40-10:30	What is probability and probability distribution?	Dr. İlke Akçay	IN CLASS
09:40-10:30	10:40-11:30	Bayes' Theorem	Dr. İlke Akçay	IN CLASS
10:40-11:30	11:40-12:30	Principles of statistical analysis	Dr. İlke Akçay	IN CLASS
11:40-12:30	12:40-13:30	Elements of statistical interference	Dr. İlke Akçay	IN CLASS
13:40-14:30	14:40-15:30	Transport of substances	Dr. Özgür Kasımay	IN CLASS
14:40-15:30	15:40-16:30	Transport of substances	Dr. Özgür Kasımay	IN CLASS
15:40-16:30	16:40-17:30	Signal transduction	Dr. Özgür Kasımay	IN CLASS
16:40-17:30	17:40-18:30	Cell to cell adhesions	Dr. Özgür Kasımay	IN CLASS

Thur	sday	22 December		
08:40-09:30	09:40-10:30	Physiology LAB: Cell Physiology-Group A	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
09:40-10:30	10:40-11:30	Physiology LAB: Cell Physiology-Group A	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
		Physiology LAB: Cell Physiology-Group B	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
10:40-11:30	11:40-12:30	Turkish For Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
44 40 43 30	42.40.42.20	Physiology LAB: Cell Physiology-Group B	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidis. Lab
11:40-12:30	12:40-13:30	Turkish For Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
13:40-14:30	14:40-15:30	Electron transport chain	Dr. Goncagül Haklar	IN CLASS
14:40-15:30	15:40-16:30	Electron transport chain	Dr. Goncagül Haklar	IN CLASS
15:40-16:30	16:40-17:30	Oxidative Phosphorylation	Dr. Goncagül Haklar	IN CLASS
16:40-17:30	17:40-18:30	Oxidative Phosphorylation	Dr. Goncagül Haklar	IN CLASS
17:40-18:30	18:40-19:30	Intercellular communication	Dr. Alper Yıldırım	IN CLASS
Fric	day	23 December		
08:40-09:3	09:40-10:30	ICS-1 Research: Contents in the Introduction part of a research study	Dr. İlke Akçay	IN CLASS
09:40-10:30	10:40-11:30	ICS-1 Research: Topic & Title	Dr. İlke Akçay	IN CLASS
10:40-11:30	11:40-12:30	ICS-1 Research: General and Specific objectives	Dr. İlke Akçay	IN CLASS
11:40-12:30	12:40-13:30	ICS-1 Research: Writing a research question	Dr. İlke Akçay	IN CLASS
13:40-14:30	14:40-15:30	Turkish For Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
14:40-15:30	15:40-16:30	Turkish For Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
15:40-16:30	16:40-17:30	Importance of genome projects in medicine	Dr. Adil Şeytanoğlu	IN CLASS
16:40-17:30	17:40-18:30	Genome of mitochondria	Dr. Adil Şeytanoğlu	IN CLASS
		4th Week (26-30 Dec	ember 2022)	

Cyprus Local	Turkey Local Time			
Mon		26 December		l l
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	STUDY TIME		
10:40-11:30	11:40-12:30	STUDY TIME		
11:40-12:30	12:40-13:30	STUDY TIME		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Inst. Aslı Gönenç	IN CLASS
14:40-15:30	15:40-16:30	,	Inst. Ayşe Kozansoy	
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences)	Dr. Cemal Gürkan	
16:40-17:30	17:40-18:30	(MDCN-182-Art and Craft ) (MDCN-125-Medical Anthropology)	Inst.Mustafa Batıbeniz Dr. Deren Çeker	IN CLASS
Tuesday		27 December		
08:40-09:30	09:40-10:30	Applications of recombinant DNA technology in medicine-online	Dr. Mustafa Akkiprik	MS-TEAMS
09:40-10:30	10:40-11:30	Applications of recombinant DNA technology in medicine-online	Dr. Mustafa Akkiprik	MS-TEAMS
10:40-11:30	11:40-12:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS-TEAMS
11:40-12:30	12:40-13:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS-TEAMS
13:40-14:30	14:40-15:30	Introduction to bioelectricity-I	Dr. Cevdet Nacar	IN CLASS
14:40-15:30	15:40-16:30	Introduction to bioelectricity-I	Dr. Cevdet Nacar	IN CLASS
15:40-16:30	16:40-17:30	Introduction to bioelectricity-II	Dr. Cevdet Nacar	IN CLASS
16:40-17:30	17:40-18:30	Introduction to bioelectricity-II	Dr. Cevdet Nacar	IN CLASS
Wedne	esday	28 December		
08:40-09:30	09:40-10:30	Flow of energy in nature, first law of thermodynamics	Dr. Cevdet Nacar	IN CLASS
09:40-10:30	10:40-11:30	Flow of energy in nature, first law of thermodynamics	Dr. Cevdet Nacar	IN CLASS

10:40-11:30	11:40-12:30	The second law of thermodynamics, entropy, free energy	Dr. Cevdet Nacar	IN CLASS
11:40-12:30	12:40-13:30	The second law of thermodynamics, entropy, free energy	Dr. Cevdet Nacar	IN CLASS
13:40-14:30	14:40-15:30	Free energy and thermodynamic properties of water	Dr. Cevdet Nacar	IN CLASS
14:40-15:30	15:40-16:30	PBL-1	Dr. Eda Becer Dr. Amber Eker Dr. Mümtaz Güran	
15:40-16:30	16:40-17:30	PBL-1	Dr. Ergül Mutlu Altundağ Dr. Maryam Norouzabahari Inst. Katriye Komili	IN CLASS
16:40-17:30	17:40-18:30	STUDY TIME		
Thur	sdav	29 December		
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08:40-09:30	09:40-10:30	Oxidation of lipids	Dr. Saime Batırel	IN CLASS
09:40-10:30	10:40-11:30	Oxidation of lipids	Dr. Saime Batırel	IN CLASS
10:40-11:30	11:40-12:30	ICS-1 Research: Contents in the Material and Methods part of a research study	Dr. İlke Akçay	IN CLASS
11:40-12:30	12:40-13:30	ICS-1 Research: Questionnaire as a data collection tool	Dr. İlke Akçay	IN CLASS
13:40-14:30	14:40-15:30	ICS-1 Research: Questionnaire design	Dr. İlke Akçay	IN CLASS
14:40-15:30	15:40-16:30	ICS-1 Research: Questionnaire design	Dr. İlke Akçay	IN CLASS
15:40-16:30	16:40-17:30	Biosynthesis of lipids	Dr. Saime Batırel	IN CLASS
16:40-17:30	17:40-18:30	Biosynthesis of lipids	Dr. Saime Batırel	IN CLASS
Fric	day	30 December		
08:40-09:30	09:40-10:30	Biosynthesis of lipids	Dr. Saime Batırel	IN CLASS
09:40-10:30	10:40-11:30	Biosynthesis of lipids	Dr. Saime Batırel	IN CLASS
10:40-11:30	11:40-12:30	Gluconeogenesis and glycogen metabolism-1	Dr. Saime Batırel	IN CLASS
	12:40-13:30	Gluconeogenesis and glycogen metabolism-1	Dr. Saime Batırel	IN CLASS
11:40-12:30	12.40-13.30	oraconcogenesis and biyoogen metabolism 1	Dir Saime Bather	1 0 = 100

13:40-14:30	14:40-15:30	Gluconeogenesis and glycogen metabolism-2	Dr. Saime Batırel	IN CLASS
14:40-15:30	15:40-16:30	Gluconeogenesis and glycogen metabolism-2	Dr. Saime Batırel	IN CLASS
15:40-16:30	16:40-17:30	STUDY TIME		
16:40-17:30	17:40-18:30	STUDY TIME		
	ı	5th Week (02-06 Jan	nuary 2023)	
Cyprus Local Time	Turkey Local Time			
Mon	day	02 January		
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
09:40-10:30	10:40-11:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
10:40-11:30	11:40-12:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
11:40-12:30	12:40-13:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
13:40-14:30	14:40-15:30	Madical Fuelish (Cv. 1. 9. Cv. 2)	Inst. Aslı Gönenç	INICIACO
14:40-15:30	15:40-16:30	Medical English (Gr 1 & Gr 2)	Inst. Ayşe Kozansoy	IN CLASS
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences)	Dr. Cemal Gürkan Inst.Mustafa Batıbeniz	IN CLASS
16:40-17:30	17:40-18:30	(MDCN-182-Art and Craft ) (MDCN-125-Medical Anthropology)	Dr. Deren Çeker	52 65
Tues	dav	03 January		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	STUDY TIME		
10:40-11:30	11:40-12:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS-TEAMS
11:40-12:30	12:40-13:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS-TEAMS
13:40-14:30	14:40-15:30	PBL-2	Dr. Eda Becer Dr. Nilüfer Güzoğlu Dr. Mümtaz Güran	IN CLASS

14:40-15:30	15:40-16:30	PBL-2	Dr. Ergül Mutlu Altundağ Dr. Maryam Norouzabahari Inst. Katriye Komili	
15:40-16:30	16:40-17:30	Testing statistical hypothesis	Dr. İlke Akçay	IN CLASS
16:40-17:30	17:40-18:30	Types of errors in statistical inference	Dr. İlke Akçay	IN CLASS
Wedn	esday	04 January		
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
	10:40-11:30	Biochemistry LAB: Electron Transport Chain- Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
09:40-10:30	10.40-11.30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
10:40-11:30	11:40-12:30	Biochemistry LAB: Electron Transport Chain- Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
10.40-11.50	11.40-12.30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
	12:40-13:30	Biochemistry LAB: Electron Transport Chain- Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
11:40-12:30	12.40-13.30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
13:40-14:30	14:40-15:30	Biochemistry LAB: Electron Transport Chain- Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
14:40-15:30	15:40-16:30	Biochemistry LAB: Electron Transport Chain- Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
15:40-16:30	16:40-17:30	Biochemistry LAB: Electron Transport Chain- Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
16:40-17:30	17:40-18:30	STUDY TIME		
Thursday		05 January		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı	IN CLASS
10:40-11:30	11:40-12:30	Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı	IN CLASS

11:40-12:30	12:40-13:30	Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı	IN CLASS
13:40-14:30	14:40-15:30	ICS-1 Research: Study population and Sample Size Calculation	Dr. İlke Akçay	IN CLASS
14:40-15:30	15:40-16:30	ICS-1 Research: Choosing appropriate Sampling method	Dr. İlke Akçay	IN CLASS
15:40-16:30	16:40-17:30	ICS-1 Research: Choosing appropriate Sampling method	Dr. İlke Akçay	IN CLASS
16:40-17:30	17:40-18:30	ICS-1 Research: Putting all together, Design of a Research study	Dr. İlke Akçay	IN CLASS
Fric	łav	06 January		
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08:40-09:30 09:40-10:30	09:40-10:30 10:40-11:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. Nilüfer Güzoğlu Dr. Ayşe Atasoylu Dr. Amber Eker	IN CLASS
10:40-11:30	11:40-12:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. Nilüfer Güzoğlu Dr. Ayşe Atasoylu Dr. Amber Eker	IN CLASS
11:40-12:30	12:40-13:30	ICS-1: Communication Skills and Introduction to Medical Interview	Dr. Sinem Yıldız İnanıcı Dr. Nilüfer Güzoğlu Dr. Ayşe Atasoylu Dr. Amber Eker	IN CLASS
13:40-14:30	14:40-15:30	PBL-3	Dr. Eda Becer Dr. Nilüfer Güzoğlu Dr. Mümtaz Güran Dr. Ergül Mutlu	INICIACO
14:40-15:30	15:40-16:30	PBL-3	Altundağ Dr. Maryam Norouzabahari Inst. Katriye Komili	IN CLASS
15:40-16:30	16:40-17:30	STUDY TIME		
16:40-17:30	17:40-18:30	STUDY TIME		

		6th Week (09-13 January 2023)		
Cyprus Local Time	Turkey Local Time			
Monday		09 January		
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
09:40-10:30	10:40-11:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
10:40-11:30	11:40-12:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
11:40-12:30	12:40-13:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez	IN CLASS
13:40-14:30 14:40-15:30	14:40-15:30 15:40-16:30	Let's Discover Mental Wellbeing Together Seminar	Inst. Hatice Tüfekçioğlu Inst. Halide Sarp	Rauf Raif Denktas Culture and Congress
				Center
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft)	Dr. Cemal Gürkan Inst.Mustafa Batıbeniz	IN CLASS
16:40-17:30	17:40-18:30	(MDCN-125-Medical Anthropology)	Dr. Deren Çeker	
Tues	day	10 January		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	STUDY TIME		
10:40-11:30	11:40-12:30	Atatürk's Principles and History of Modern Turkey Exam	Dr. Turgay Bülent Göktürk	IN CLASS
11:40-12:30	12:40-13:30	Atatürk's Principles and History of Modern Turkey Exam	Dr. Turgay Bülent Göktürk	IN CLASS
13:40-14:30	14:40-15:30	PBL-4	Dr. Eda Becer Dr. Nilüfer Güzoğlu Dr. Mümtaz Güran Dr. Ergül Mutlu Altundağ	IN CLASS
14:40-15:30	15:40-16:30	PBL-4	Dr. Maryam Norouzabahari Inst. Katriye Komili	

15:40-16:30	16:40-17:30	Difference between parametric and nonparametric methods; Introduction to parametric methods	Dr. İlke Akçay	IN CLASS
16:40-17:30	17:40-18:30	One sample t-test, unpaired t-test and paired t-test	Dr. İlke Akçay	IN CLASS
Wedn	esday	11 January		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
10:40-11:30	11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
11:40-12:30	12:40-13:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
13:40-14:30	14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
14:40-15:30	15:40-16:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
15:40-16:30	16:40-17:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
16:40-17:30	17:40-18:30	STUDY TIME		
Thurs	sday	12 January		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
10:40-11:30	11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
11:40-12:30	12:40-13:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS

13:40-14:30	14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
14:40-15:30	15:40-16:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
15:40-16:30	16:40-17:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz	IN CLASS
16:40-17:30	17:40-18:30	STUDY TIME		
Fric	lay	13 January		
08:40-09:30	09:40-10:30	ICS-1 First Aid: Written Exam	Dr.Bülent Sezgin	IN CLASS
09:40-10:30	10:40-11:30	ICS-1 First Aid: Practical Exam	Dr. Nilüfer Güzoğlu	IN CLASS
10:40-11:30	11:40-12:30	ICS-1 First Aid: Practical Exam	Dr. Amber Eker Dr. Bülent Sezgin	
11:40-12:30	12:40-13:30	ICS-1 First Aid: Practical Exam	Dr. Ayşe Atasoylu	
13:40-14:30	14:40-15:30	ICS-1 First Aid: Practical Exam	Dr. Nilüfer Güzoğlu Dr. Amber Eker Dr. Bülent Sezgin Dr. Ayşe Atasoylu	IN CLASS
14:40-15:30	15:40-16:30	ICS-1 First Aid: Practical Exam		
15:40-16:30	16:40-17:30	ICS-1 First Aid: Practical Exam		
16:40-17:30	17:40-18:30	ICS-1 First Aid: Practical Exam		
		7th Week (16-20 Jar	nuary 2023)	
Cyprus Local Time	Turkey Local Time			
Mon	day	16 January		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	STUDY TIME		
10:40-11:30	11:40-12:30	STUDY TIME		
11:40-12:30	12:40-13:30	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	
Tues	day	17 January	
08:40-09:30	09:40-10:30	STUDY TIME	
09:40-10:30	10:40-11:30	STUDY TIME	
10:40-11:30	11:40-12:30	STUDY TIME	
11:40-12:30	12:40-13:30	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	
Wedn	esday	18 January	
08:40-09:30	09:40-10:30	STUDY TIME	
09:40-10:30	10:40-11:30	STUDY TIME	
10:40-11:30	11:40-12:30	STUDY TIME	
11:40-12:30	12:40-13:30	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	
Thursday		19 January	
08:40-09:30	09:40-10:30		
09:40-10:30	10:40-11:30	Y1C2 THEORETICAL EXAM	
10:40-11:30	11:40-12:30		
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11:40-12:30	12:40-13:30			
13:40-14:30	14:40-15:30	Committee Exam Feedback Session	Dr. Ergül Mutlu Altundağ Dr. Halil Eren sakallı	IN CLASS
14:40-15:30	15:40-16:30			
15:40-16:30	16:40-17:30			
16:40-17:30	17:40-18:30			
Friday		20 January		
08:40-09:30	09:40-10:30			
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			
14:40-15:30	15:40-16:30			
15:40-16:30	16:40-17:30			
16:40-17:30	17:40-18:30			