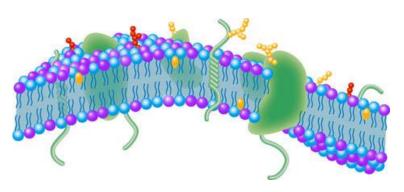


Tıp Fakültesi

# MARMARA UNIVERSITY EASTERN MEDITERRANEAN UNIVERSITY INTERNATIONAL MEDICAL SCHOOL





## CELLULAR METABOLISM AND TRANSPORT YEAR 1 COURSE 2

November 25th, 2024 - January 16th, 2025

#### **Year 1 Coordinators**

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

PBL Module Coordinator	Coordinator of Multidiciplinary Students'
Prof. Rezzan Gülhan	Lab.
Inst. Hüseyin Beyaz	Assoc. Prof. Burak AKSU
	Assoc. Prof. Ergül MUTLU ALTUNDAĞ

#### **Coordinator of Clinical Skill Lab.**

Prof. Pemra ÜNALAN Assist. Prof. Bülent SEZGİN

Dean (EMU) (a)

Assoc.Prof. Nilüfer GÜZOĞLU

#### Coordinator of ICS Res. Lab.

Prof. Pemra ÜNALAN Assist. Prof. İlke AKÇAY

**Dean (MU)** Prof. Süleyman Ümit ŞEHİRLİ

Vice-Chief Coordinators					
Assessment	Student Affairs				
Assist. Prof. Cevdet NACAR	Assist. Prof. Can ERZİK				
Assist. Prof. Halil Eren SAKALLI	Assist.Prof. İlke AKÇAY				
Chief Coordinator Prof. Hasan R. YANANLI Assoc. Prof. Amber EKER	Coordinator of Medical Education Program Evaluation and Development Commission Prof. Tunç Öneş				
Coordinator of the Prof. Süleyman	•				

#### **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
- 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 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

#### 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

ourse

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

- Medical Biology
- Physiology

#### **LECTURERS / TUTORS**

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

Alper Yıldırım, Prof.,Physiology

Amber Eker, Assoc. Prof., Neurology

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

Betül Yılmaz, Prof., Medical Biochemistry

Cemal Gürkan, Inst., Dr., Forensic Sciences

Cevdet Nacar, Assist. Prof., Biophysics

Deren Çeker, Inst., Dr., Medical Anthropology

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

Goncagül Haklar, Prof., Medical Biochemistry

Hülya Cabadak Prof., Biophysics

Hüseyin Beyaz, Inst., PBL

İlke Akçay, Assist. Prof., Biostatistics

Kadir Çakıral, Inst., PBL

Mustafa Akkiprik, Prof., Medical Biology

Mustafa Batıbeniz, Inst., Arts and Crafts

Nilüfer Güzoğlu, Assoc. Prof., Neonatalogy

Özgür Kasımay, Prof.,Physiology

Pınar Mega Tiber, Prof., Biophysics

Saime Batırel, Assoc. Prof., Medical Biochemistry Sinem Yıldız İnanıcı, Assist.Prof., Medical Education

Turgay Bülent Göktürk, Assist. Prof., Atatürk's

Principles and History of Modern Turkey

Yelda Çubukçu, Inst., Turkish Language

**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

SUN	MMARY OF THE COURSE	1.2	
Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Biochemistry	26	10	36
Biophysics	20		20
Biostatistics	10		10
Medical Biology	4		4
Physiology	8	2	10
PBL Module	8		
Subtotal	76	12	88
ICS-1 CSL-FA: Clinical Skills Laboratory & Introduction to First Aid Course (MEDN161)	10		
ICS-1 CS-MI: Communication Skills & Introduction to Medical Interview (MEDN162)	8	4	12
ICS-1 SR-CS: Introduction to Student Research and Computer Skills (MEDN163)			
Medical English (ENGL131)	14		
Atatürk's Principles and the History of Turkish Renovation (for Turkish students) (HIST180)	14		
Turkish for Medical Students-I (Foreign Students) (TFMS101)	14		
TFMS101 - Turkish for Medical Students-I (Interactive session)			
Elective (AE-01)	14		
TOTAL	150	16	166

		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	LECTURE PLATFORM
		1 <sup>st</sup> Week (25 November -29	November 2024)	
Cyprus Local Time	Turkey Local Time			
Mon	day	25 November		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Turkish for Medical Students-I (Foreign	Dr. Evrim Dalyan Eberdes	IN CLASS
10:40-11:30	11:40-12:30	Students)	Eberdes	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	iviedicai English (Gr 1 & Gr 2)	Inst. Ayşe Kozansoy	IN CLASS
15:40-16:30	16:40-17:30	Elective Courses (MDCN 125- Medical Antropology) (MDCN 181- Forensic Sciences (MDCN-314-Introduction to Health Psychology)	Inst. Deren Çeker Dr. Cemal Gürkan Inst. Hazal Dinçyürek	IN CLASS
16:40-17:30	17:40-18:30	(MDCN-316- Introduction to Lifestyle Medicine) (AICS 361- Artifical Intelligence In Medicine) (GFMS -101 - German for Medical Students)	Dr. Ayşe Atasoylu Dr. Adnan Acan Inst. Aslihan Engin Bozoğlu	IIV CLASS
Tues	day	26 November		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	Homeostasis	Dr. Berrak Yegen	MS TEAMS
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	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
15:40-16:30	16:40-17:30	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
16:40-17:30	17:40-18:30	STUDY TIME		
Wedne	esday	27 November		

08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	ICS-1 SR-CS: Theme of ICSR-1 Projects	Dr. İlke Akçay	IN CLASS
10:40-11:30	11:40-12:30	Introduction to statistical analysis	Dr. İlke Akçay	IN CLASS
11:40-12:30	12:40-13:30	Sampling, distribution and estimation	Dr. İlke Akçay	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		
Thu	rsday	28 November		
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	STUDY TIME		
11:40-12:30	12:40-13:30	STUDY TIME		
13:40-14:30	14:40-15:30	ICS- CSL- FA: CPR Cardiopulmonary Resuscitation and Choking (adult-infant)	Dr.Amber Eker Dr. Bülent Sezgin Dr. Barış Sarı	ICS LAB
14:40-15:30	15:40-16:30	ICS- CSL- FA: CPR Cardiopulmonary Resuscitation and Choking (adult-infant)	Dr.Amber Eker Dr. Bülent Sezgin Dr. Barış Sarı	ICS LAB
15:40-16:30	16:40-17:30	ICS- CSL- FA: CPR Cardiopulmonary Resuscitation and Choking (adult-infant)	Dr.Amber Eker Dr. Bülent Sezgin Dr. Barış Sarı	ICS LAB
16:40-17:30	17:40-18:30	ICS- CSL- FA: CPR Cardiopulmonary Resuscitation and Choking (adult-infant)	Dr.Amber Eker Dr. Bülent Sezgin Dr. Barış Sarı	ICS LAB
Fri	day	29 November		
08:40-09:30	09:40-10:30	Introduction to the course	Dr. Ergül Mutlu Altundağ	IN CLASS
09:40-10:30	10:40-11:30	Electrochemical potentials, Nernst potential	Dr. Pınar Mega Tiber	IN CLASS
10:40-11:30	11:40-12:30	Membrane potentials and action potential	Dr. Pınar Mega Tiber	IN CLASS

11:40-12:30	12:40-13:30	Membrane potentials and action potential	Dr. Pınar Mega Tiber	IN CLASS
13:40-14:30	14:40-15:30	Principles of statistical analysis	Dr. İlke Akçay	IN CLASS
14:40-15:30	15:40-16:30	Elements of statistical inference	Dr. İlke Akçay	IN CLASS
15:40-16:30	16:40-17:30	Physical characteristics of membrane structure and function	Dr. Banu Aydın Omay	MS TEAMS
16:40-17:30	17:40-18:30	Membrane proteins	Dr. Banu Aydın Omay	MS TEAMS
		2 <sup>nd</sup> Week (02 December -06	December 2024)	
Cyprus Local Time	Turkey Local Time			
Mor	nday	02 December		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Turkish for Medical Students-I ( <b>Foreign</b>	Dr. Evrim Dalyan Eberdes	IN CLASS
10:40-11:30	11:40-12:30	Students)		
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	iviedical Eligiisii (Gr 1 & Gr 2)	Inst. Ayşe Kozansoy	IN CLASS
15:40-16:30	16:40-17:30	Elective Courses (MDCN 125- Medical Antropology) (MDCN 181- Forensic Sciences (MDCN-314-Introduction to Health Psychology)	Inst. Deren Çeker Dr. Cemal Gürkan Inst. Hazal Dinçyürek	
16:40-17:30	17:40-18:30	(MDCN-316- Introduction to Lifestyle Medicine) (AICS 361- Artifical Intelligence In Medicine) (GFMS -101 - German for Medical Students)	Dr. Ayşe Atasoylu Dr. Adnan Acan Inst. Aslihan Engin Bozoğlu	IN CLASS
Tue	sday	03 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	PBL-1	Dr. Amber Eker Dr. Ergül Mutlu	PBL Room
11:40-12:30	12:40-13:30	PBL-1	Altundağ Dr. Özge Eker Inst. Hüseyin Beyaz	

13:40-14:30	14:40-15:30	STUDY TIME		
14:40-15:30	15:40-16:30	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
15:40-16:30	16:40-17:30	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
16:40-17:30	17:40-18:30	STUDY TIME		
Wedn	esday	04 December		
08:40-09:30	09:40-10:30	ICS-1 SR-CS: Contents in the Introduction part of a research study	Dr. İlke Akçay	IN CLASS
09:40-10:30	10:40-11:30	ICS-1 SR-CS: Topic & Title	Dr. İlke Akçay	IN CLASS
10:40-11:30	11:40-12:30	ICS-1 SR-CS: General and Specific objectives	Dr. İlke Akçay	IN CLASS
11:40-12:30	12:40-13:30	ICS-1 SR-CS: Writing a research question	Dr. İlke Akçay	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		
Thur	sday	05 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 metabolism and metabolic control	Dr. Betül Yılmaz	IN CLASS

14:40-15:30	15:40-16:30	Introduction to metabolism and metabolic control	Dr. Betül Yılmaz	IN CLASS
15:40-16:30	16:40-17:30	Role of organelles in the metabolism	Dr. Betül Yılmaz	IN CLASS
16:40-17:30	17:40-18:30	Overview of glycolysis	Dr. Betül Yılmaz	IN CLASS
Frid	lay	06 December		
08:40-09:30	09:40-10:30	Reactions of glycolysis	Dr. Betül Yılmaz	IN CLASS
09:40-10:30	10:40-11:30	Reactions of glycolysis	Dr. Betül Yılmaz	IN CLASS
10:40-11:30	11:40-12:30	Regulation of glycolysis	Dr. Betül Yılmaz	IN CLASS
11:40-12:30	12:40-13:30	Regulation of glycolysis	Dr. Betül Yılmaz	IN CLASS
13:40-14:30	14:40-15:30	Importance of genome projects in medicine	Dr. Adil Şeytanoğlu	IN CLASS
14:40-15:30	15:40-16:30	Genome of mitochondria	Dr. Adil Şeytanoğlu	IN CLASS
15:40-16:30	16:40-17:30	STUDY TIME		
16:40-17:30	17:40-18:30	STUDY TIME		
		3 <sup>rd</sup> Week (9 December-13	December 2024)	
Cyprus Local Time	Turkey Local Time			
Mon	day	9 December		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Turkish for Medical Students-I ( <b>Foreign</b>	Dr. Evrim Dalyan	IN CLASS
10:40-11:30	11:40-12:30	Students)	Eberdes	IN CLASS
11:40-12:30	12:40-13:30			
13:40-14:30	14:40-15:30	Modical English (Gr.1. 8. Gr. 2)	Inst. Aslı Gönenç	INI 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	PBL-2	Dr. Amber Eker Dr. Ergül Mutlu Altundağ	PBL Room
16:40-17:30	17:40-18:30	PBL-2	Dr. Özge Eker Inst. Hüseyin Beyaz	PDL NUUIII

Tues	day	10 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	Gluconeogenesis and glycogen metabolism-2	Dr. Ayşe Mine Yılmaz Göler	MS TEAMS
11:40-12:30	12:40-13:30	Gluconeogenesis and glycogen metabolism-2	Dr. Ayşe Mine Yılmaz Göler	MS TEAMS
13:40-14:30	14:40-15:30	STUDY TIME		
14:40-15:30	15:40-16:30	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
15:40-16:30	16:40-17:30	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
16:40-17:30	17:40-18:30	Introduction to bioelectricity-I	Dr. Cevdet Nacar	IN CLASS
17:40-18:30	18:40-19:30	Introduction to bioelectricity-I	Dr. Cevdet Nacar	IN CLASS
Wedne	esday	11 December		
08:40-09:30	09:40-10:30	Introduction to bioelectricity-II	Dr. Cevdet Nacar	IN CLASS
09:40-10:30	10:40-11:30	Introduction to bioelectricity-II	Dr. Cevdet Nacar	IN CLASS
10:40-11:30	11:40-12:30	Flow of energy in nature, first law of thermodynamics	Dr. Cevdet Nacar	IN CLASS
11:40-12:30	12:40-13:30	Flow of energy in nature, first law of thermodynamics	Dr. Cevdet Nacar	IN CLASS
13:40-14:30	14:40-15:30	The second law of thermodynamics, entropy, free energy	Dr. Cevdet Nacar	IN CLASS
14:40-15:30	15:40-16:30	The second law of thermodynamics, entropy, free energy	Dr. Cevdet Nacar	IN CLASS
15:40-16:30	16:40-17:30	Free energy and thermodynamic properties of water	Dr. Cevdet Nacar	IN CLASS
16:40-17:30	17:40-18:30	STUDY TIME		
Thurs	sday	12 December		

08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Y2C2 COMMITTEE 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	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
Frid	lay	13 December		
08:40-09:30	09:40-10:30	Electron transport chain	Dr. Goncagül Haklar	IN CLASS
09:40-10:30	10:40-11:30	Electron transport chain	Dr. Goncagül Haklar	IN CLASS
10:40-11:30	11:40-12:30	Oxidative Phosphorylation	Dr. Goncagül Haklar	IN CLASS
11:40-12:30	12:40-13:30	Oxidative Phosphorylation	Dr. Goncagül Haklar	IN CLASS
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		
		4 <sup>th</sup> Week (16 December-20	December 2024)	
Cyprus Local Time	Turkey Local Time			
Mon	day	16 December		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Turkish for Medical Students-I (Foreign	Dr. Evrim Dalyan	IN CLASS
10:40-11:30	11:40-12:30	Students)	Eberdes	
2				

11:40-12:30	12:40-13:30			
13:40-14:30	14:40-15:30			
14:40-15:30	15:40-16:30	Medical English (Gr 1 & Gr 2)	Inst. Aslı Gönenç Inst. Ayşe Kozansoy	IN CLASS
15:40-16:30	16:40-17:30	PBL-3	Dr. Amber Eker Dr. Ergül Mutlu	DDI Daara
16:40-17:30	17:40-18:30	PBL-3	Altundağ Dr. Özge Eker Inst. Hüseyin Beyaz	PBL Room
Tues	day	17 December		
08:40-09:30	09:40-10:30	Transport of substances	Dr. Özgür Kasımay	IN CLASS
09:40-10:30	10:40-11:30	Transport of substances	Dr. Özgür Kasımay	IN CLASS
10:40-11:30	11:40-12:30	Signal transduction	Dr. Özgür Kasımay	IN CLASS
11:40-12:30	12:40-13:30	Cell to cell adhesions	Dr. Özgür Kasımay	IN CLASS
13:40-14:30	14:40-15:30	Intercellular communication	Dr. Alper Yıldırım	IN CLASS
14:40-15:30	15:40-16:30	Physiology LAB: Cell Physiology-Group A	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplin ary Lab.
15:40-16:30	16:40-17:30	Physiology LAB: Cell Physiology-Group A	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplin ary Lab.
16:40-17:30	17:40-18:30	Physiology LAB: Cell Physiology-Group B	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplin ary Lab.
17:40-18:30	18:40-19:30	Physiology LAB: Cell Physiology-Group B	Dr. Özgür Kasımay Dr. Alper Yıldırım	Multidisciplin ary Lab.
Wedn	esday	18 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	Testing statistical hypothesis	Dr. İlke Akçay	IN CLASS
11:40-12:30	12:40-13:30	Types of errors in statistical inference	Dr. İlke Akçay	IN CLASS
13:40-14:30	14:40-15:30	ICS-1 SR-CS: Contents in the Material and Methods part of a research study	Dr. İlke Akçay	IN CLASS

14:40-15:30	15:40-16:30	ICS-1 SR-CS: Questionnaire as a data collection tool	Dr. İlke Akçay	IN CLASS
15:40-16:30	16:40-17:30	ICS-1 SR-CS: Questionnaire design	Dr. İlke Akçay	IN CLASS
16:40-17:30	17:40-18:30	ICS-1 SR-CS: Questionnaire design	Dr. İlke Akçay	IN CLASS
17:40-18:30	18:40-19:30	STUDY TIME		
Thurs	sday	19 December		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30			
10:40-11:30	11:40-12:30	Y3C2 COMMITTEE EXAM		
11:40-12:30	12:40-13:30			
13:40-14:30	14:40-15:30	Oxidation of lipids	Dr. Saime Batırel	IN CLASS
14:40-15:30	15:40-16:30	Oxidation of lipids	Dr. Saime Batırel	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
Frid	lay	20 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
11:40-12:30	12:40-13:30	Gluconeogenesis and glycogen metabolism-1	Dr. Saime Batırel	IN CLASS
13:40-14:30	14:40-15:30	PBL-4	Dr. Amber Eker Dr. Ergül Mutlu Altundağ	PBL Room
14:40-15:30	15:40-16:30	PBL-4	Dr. Özge Eker Inst. Hüseyin Beyaz	
15:40-16:30	16:40-17:30	STUDY TIME		
16:40-17:30	17:40-18:30	STUDY TIME		
	, 	5 <sup>th</sup> Week (23 December-27	7 December 2024)	·
Cyprus Local Time	Turkey Local Time			

Mon	day	23 December		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Turkish for Medical Students-I ( <b>Foreign</b> <b>Students)</b>	Dr. Evrim Dalyan Eberdes	IN CLASS
10:40-11:30	11:40-12:30	Students)	Eberdes	
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	Wedled Eligibil (Cl. 1 & Cl. 2)	Inst. Ayşe Kozansoy	114 62 133
15:40-16:30	16:40-17:30	Elective Courses (MDCN 125- Medical Antropology) (MDCN 181- Forensic Sciences (MDCN-314-Introduction to Health Psychology) (MDCN-316- Introduction to Lifestyle Medicine)	Inst. Deren Çeker Dr. Cemal Gürkan Inst. Hazal Dinçyürek Dr. Ayşe Atasoylu Dr. Adnan Acan	IN CLASS
16:40-17:30	17:40-18:30	(AICS 361- Artifical Intelligence In Medicine) (GFMS -101 - German for Medical Students)	Inst. Aslihan Engin Bozoğlu	
Tues	day	24 December		
08:40-09:30	09:40-10:30	Applications of recombinant DNA technology in medicine	Dr. Mustafa Akkiprik	MS TEAMS
09:40-10:30	10:40-11:30	Applications of recombinant DNA technology in medicine	Dr. Mustafa Akkiprik	MS TEAMS
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	Turkish for Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
14.40 15.20	15:40-16:30	Turkish for Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
14:40-15:30	15:40-16:30	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
15:40-16:30	16:40-17:30	Turkish for Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
15.40-10:50	10.40-17:30	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
16:40-17:30	17:40-18:30	STUDY TIME		

Wedne	esday	25 December		
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 Göler	Multidisciplin ary Lab.
10:40-11:30	11:40-12:30	<b>Biochemistry LAB</b> : Anaerobic Glycolysis- <b>Group</b> <b>B</b>	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz Göler	Multidisciplin ary Lab.
11:40-12:30	12:40-13:30	<b>Biochemistry LAB</b> : Anaerobic Glycolysis- <b>Group</b> <b>B</b>	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz Göler	Multidisciplin ary Lab.
13:40-14:30	14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz Göler	Multidisciplin ary Lab.
14:40-15:30	15:40-16:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz Göler	Multidisciplin ary Lab.
15:40-16:30	16:40-17:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz Göler	Multidisciplin ary Lab.
16:40-17:30	17:40-18:30	STUDY TIME		
Thurs	sday	26 December		
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 Göler	Multidisciplin ary Lab.
10:40-11:30	11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis- Group A	Dr. Ergül Mutlu Altundağ	Multidisciplin ary Lab.
11:40-12:30	12:40-13:30	Biochemistry LAB: Anaerobic Glycolysis- Group A	Dr. Ergül Mutlu Altundağ	Multidisciplin ary Lab.

13:40-14:30	14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis- Group A	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz Göler	Multidisciplin ary Lab.
14:40-15:30	15:40-16:30	Biochemistry LAB: Anaerobic Glycolysis- Group A	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz Göler	Multidisciplin ary Lab.
15:40-16:30	16:40-17:30	Biochemistry LAB: Anaerobic Glycolysis- Group A	Dr. Ergül Mutlu Altundağ Dr. Ayşe Mine Yılmaz Göler	Multidisciplin ary Lab.
16:40-17:30	17:40-18:30	STUDY TIME		
Frid	lay	27 December		
08:40-09:30	09:40-10:30	ICS-1 CSL-FA: Written and Practical Exam	Dr.Bülent Sezgin Dr.Amber Eker Bakkaloğlu Dr.Barış Sarı Inst.Namık Refik Kerküklü Inst.Kadir Çakıral	
09:40-10:30	10:40-11:30	ICS-1 CSL-FA: Written and Practical Exam	Dr.Bülent Sezgin Dr.Amber Eker Bakkaloğlu Dr.Barış Sarı Inst.Namık Refik Kerküklü Inst.Kadir Çakıral	
10:40-11:30	11:40-12:30	ICS-1 CSL-FA: Written and Practical Exam	Dr.Bülent Sezgin Dr.Amber Eker Bakkaloğlu Dr.Barış Sarı Inst.Namık Refik Kerküklü Inst.Kadir Çakıral	
11:40-12:30	12:40-13:30	ICS-1 CSL-FA: Written and Practical Exam	Dr.Bülent Sezgin Dr.Amber Eker Bakkaloğlu Dr.Barış Sarı Inst.Namık Refik Kerküklü Inst.Kadir Çakıral	

13:40-14:30 14:40-15:30	14:40-15:30 15:40-16:30	ICS-1 CSL-FA: Written and Practical Exam  ICS-1 CSL-FA: Written and Practical Exam	Dr.Bülent Sezgin Dr.Amber Eker Bakkaloğlu Dr.Barış Sarı Inst.Namık Refik Kerküklü Inst.Kadir Çakıral Dr.Bülent Sezgin Dr.Amber Eker Bakkaloğlu Dr.Barış Sarı Inst.Namık Refik Kerküklü	
15:40-16:30	16:40-17:30	ICS-1 CSL-FA: Written and Practical Exam	Inst.Kadir Çakıral  Dr.Bülent Sezgin  Dr.Amber Eker  Bakkaloğlu  Dr.Barış Sarı  Inst.Namık Refik  Kerküklü  Inst.Kadir Çakıral	
16:40-17:30	17:40-18:30	ICS-1 CSL-FA: Written and Practical Exam	Dr.Bülent Sezgin Dr.Amber Eker Bakkaloğlu Dr.Barış Sarı Inst.Namık Refik Kerküklü Inst.Kadir Çakıral	
		6 <sup>th</sup> Week (30 December -0	03 January 2024)	
Cyprus Local Time	Turkey Local Time			
Mon	day	30 December		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Turkish for Medical Students-I ( <b>Foreign Students)</b>	Dr. Evrim Dalyan Eberdes	IN CLASS
10:40-11:30	11:40-12:30	Students)		
11:40-12:30	12:40-13:30			
13:40-14:30	14:40-15:30	CTUDY TIME		
14:40-15:30	15:40-16:30	STUDY TIME		

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15:40-16:30 16:40-17:30	16:40-17:30 17:40-18:30	Elective Courses (MDCN 125- Medical Antropology) (MDCN 181- Forensic Sciences (MDCN-314-Introduction to Health Psychology) (MDCN-316- Introduction to Lifestyle Medicine) (AICS 361- Artifical Intelligence In Medicine) (GFMS -101 - German for Medical Students)	Inst. Deren Çeker Dr. Cemal Gürkan Inst. Hazal Dinçyürek Dr. Ayşe Atasoylu Dr. Adnan Acan Inst. Aslihan Engin Bozoğlu	IN CLASS
Tues	day	31 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	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	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
15:40-16:30	16:40-17:30	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
16:40-17:30	17:40-18:30	STUDY TIME		
Wedn	esday	01 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			
		YILBAŞI TATİLİ-CHRISTMAS DAY		
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			
	1	l .	l .	

Thur	sday	02 January		
08:40-09:30	09:40-10:30	Biochemistry LAB: Electron Transport Chain- Group A	Dr. Ergül Mutlu Altundağ	Multidisciplin ary Lab.
09:40-10:30	10:40-11:30	Biochemistry LAB: Electron Transport Chain- Group A	Dr. Ergül Mutlu Altundağ	Multidisciplin ary Lab.
10:40-11:30	11:40-12:30	Biochemistry LAB: Electron Transport Chain- Group A	Dr. Ergül Mutlu Altundağ	Multidisciplin ary Lab.
11:40-12:30	12:40-13:30	<b>Biochemistry LAB</b> : Electron Transport Chain- <b>Group A</b>	Dr. Ergül Mutlu Altundağ	Multidisciplin ary Lab.
13:40-14:30	14:40-15:30	ICS-1 SR-CS: Study population and Sample Size Calculation	Dr. İlke Akçay	IN CLASS
14:40-15:30	15:40-16:30	ICS-1 SR-CS: Choosing appropriate Sampling method	Dr. İlke Akçay	IN CLASS
15:40-16:30	16:40-17:30	ICS-1 SR-CS: Choosing appropriate Sampling method	Dr. İlke Akçay	IN CLASS
16:40-17:30	17:40-18:30	ICS-1 SR-CS: Putting all together, Design of a Research study	Dr. İlke Akçay	IN CLASS
Frie	day	03 January		
08:40-09:30	09:40-10:30	Biochemistry LAB: Electron Transport Chain- Group B	Dr. Ergül Mutlu Altundağ	Multidisciplin ary Lab.
09:40-10:30	10.40.41.20	Turkish for Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
09:40-10:30	10:40-11:30	Biochemistry LAB: Electron Transport Chain- Group B	Dr. Ergül Mutlu Altundağ	Multidisciplin ary Lab.  Multidisciplin ary Lab.  Multidisciplin ary Lab.  IN CLASS  IN CLASS  IN CLASS  Multidisciplin ary Lab.
10.40 11.20	11.40 12.20	Turkish for Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
10:40-11:30	11:40-12:30	Biochemistry LAB: Electron Transport Chain- Group B	Dr. Ergül Mutlu Altundağ	· ·
11.40.12.22	12.40.42.25	Turkish for Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
11:40-12:30	12:40-13:30	Biochemistry LAB: Electron Transport Chain- Group B	Dr. Ergül Mutlu Altundağ	•
13:40-14:30	14:40-15:30	STUDY TIME		
13:40-14:30 14:40-15:30	14:40-15:30 15:40-16:30	STUDY TIME STUDY TIME		

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15:40-16:30	16:40-17:30	STUDY TIME		
16:40-17:30	17:40-18:30	STUDY TIME		
		7 <sup>th</sup> Week (06 January – 1	0 January 2024)	
Cyprus Local Time	Turkey Local Time			
Mon	day	06 January		
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30	Turkish tor Medical Students-I ( <b>Foreign</b>	Dr. Evrim Dalyan Eberdes	INI CLASS
10:40-11:30	11:40-12:30	Students)	Eberdes	IN CLASS
11:40-12:30	12:40-13:30			
13:40-14:30	14:40-15:30	Madical English Har 1 & (ar 7)	Inst. Aslı Gönenç	onenç
14:40-15:30	15:40-16:30		Inst. Ayşe Kozansoy IN CLASS	IN CLASS
15:40-16:30	16:40-17:30	Elective Courses (MDCN 125- Medical Antropology) (MDCN 181- Forensic Sciences	Inst. Deren Çeker Dr. Cemal Gürkan Inst. Hazal Dinçyürek	IN CLASS
16:40-17:30	17:40-18:30	(MDCN-314-Introduction to Health Psychology) (MDCN-316- Introduction to Lifestyle Medicine) (AICS 361- Artifical Intelligence In Medicine) (GFMS -101 - German for Medical Students)	Dr. Ayşe Atasoylu Dr. Adnan Acan Inst. Aslihan Engin Bozoğlu	
Tues	day	07 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	Difference between parametric and nonparametric methods; Introduction to parametric methods	Dr. İlke Akçay	IN CLASS
11:40-12:30	12:40-13:30	One sample t-test, unpaired t-test and paired t-test	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

		Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
15:40-16:30		Turkish for Medical Students-I (Interactive session)	Inst. Emine Özerinç	IN CLASS
	16:40-17:30	Atatürk's Principles and History of Modern Turkey	Mete Özsezer	MS TEAMS
16:40-17:30	17:40-18:30	STUDY TIME		
Wedn	esday	8 January		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	ICS-1 SR-CS: Critics with groups (Gr1 & Gr2)	Dr. İlke Akçay	IN CLASS
10:40-11:30	11:40-12:30	ICS-1 SR-CS: Critics with groups (Gr3 & Gr4)	Dr. İlke Akçay	IN CLASS
11:40-12:30	12:40-13:30	ICS-1 SR-CS: Critics with groups (Gr5 & Gr6)	Dr. İlke Akçay	IN CLASS
13:40-14:30	14:40-15:30	ICS-1 SR-CS: Critics with groups (Gr7 & Gr8)	Dr. İlke Akçay	IN CLASS
14:40-15:30	15:40-16:30	ICS-1 SR-CS: Critics with groups (Gr9 & G10)	Dr. İlke Akçay	IN CLASS
15:40-16:30	16:40-17:30	ICS-1 SR-CS: Critics with groups (Gr11 & Gr12)	Dr. İlke Akçay	IN CLASS
16:40-17:30	17:40-18:30	STUDY TIME		
Thurs	sday	9 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		
Frid	lay	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	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		
		8 <sup>th</sup> Week (13 January – 1	7 January 2024)	
Cyprus Local Time	Turkey Local Time			
Mon	day	13 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		
Tuesday		14 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	
Wedne	esday	15 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		16 January		
08:40-09:30	09:40-10:30	Y1C2 COMMITTEE EXAM		
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	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			

Frid	lay	17 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		