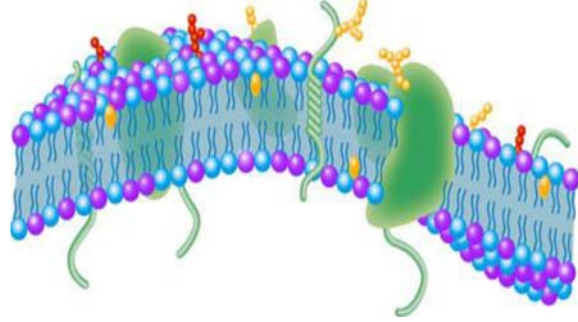




**MARMARA UNIVERSITY – EASTERN MEDITERRANEAN
UNIVERSITY INTERNATIONAL MEDICAL SCHOOL**



CELLULAR METABOLISM AND TRANSPORT COURSE
Year 1 Course 2
December 06, 2021 – January 21, 2022

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.**

Prof., Betül KARADEMİR
Assist. Prof., Ergül MUTLU ALTUNDAĞ

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

Chief Coordinator

Assoc. Prof., Hasan YANANLI
Assist. Prof., Masoud AFSHANI

**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-A (MU)

Prof., Süleyman Ümit ŞEHİRLİ

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 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,

1. acquire knowledge related to structural characteristics, functions and regulation of enzymes and coenzymes
2. understand the ATP synthesis and its effect on metabolic pathways
3. describe the constituents and reactions of metabolic pathways within the cell
4. understand membrane structure and its function, physical principles of transport and signaling mechanisms both within and among the cells
5. 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 & MODULE-2

- Biochemistry
- Biophysics
- Physiology

- Medical Biology
- Biostatistics

LECTURERS / TUTORS

Adil ŞEYTANOĞLU, Assoc. Prof., Medical Biology
 Alper YILDIRIM, Assist. Prof., Physiology
 Ayşe KOZANSOY, Instructor, Medical English
 Berrak YEĞEN, Prof., Physiology
 Betül KARADEMİR, Prof., Biochemistry
 Bülent SEZGİN, Assist. Prof., Internal Medicine
 Cemal GÜRKAN, Instructor, Forensic Sciences

İlke AKÇAY, Assist. Prof., Biostatistics
 Mustafa AKKIPRIK, Prof., Medical Biology
 Nazan DOĞRUER, Instructor, Medical English
 Nurtane KARAGİL, Instructor, Arts and Crafts
 Özgür KASIMAY, Assoc. Prof., Physiology
 Özlem Sarıkaya, Prof., Medical Education
 Saime BATIREL, Assist. Prof., Biochemistry

Cevdet NACAR, Assist. Prof., Biophysics Didem RIFKI, Instructor, E.N.T. Emine Özeriç, Instructor, Turkish Language Ergül Mutlu ALTUNDAĞ, Assist. Prof., Biochemistry Ethem GELİR, Prof., Physiology Goncagül HAKLAR, Prof., Biochemistry Günseli Ayşe Garip İNHAN, Assoc. Prof., Biophysics Hülya CABADAK, Assoc. Prof., Biophysics	Sinem İNANICI, Assist. Prof., Medical Education Turgay Bülent GÖKTÜRK, Instructor of Atatürk's Principles and History of Modern Turkey
--	---

READING / STUDYING MATERIALS

- Biochemistry, Stryer, 4th Ed., Freeman
- Biochemistry, Zubay, 3rd Ed., WCB
- Biostatistics: Basic Concepts and Methodology for the Health Sciences, 10th Ed. Wayne W. Daniel, Chad L. Cross
- 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 Kitabevi, İstanbul 1990
- Textbook of Physiology, Guyton and Hall, 10th Ed.
- The Cell: A Molecular Approach, Cooper, 2nd Ed., ASM Press

Discipline
Medical Biology
Biochemistry
Biostatistics
Physiology
Biophysics
Subtotal
PBL Module
ICS-1
Computer Skills in Medicine and Student Research Activities
ICS Communication Skills
Introduction to Medical Interview
ICS First Aid and Clinical Skills
Medical English
Atatürk's Principles and History of Modern Turkey
TFMS101-Turkish for Medical Students-1 (for foreign students)
TFMS101-Turkish for Medical Students-1 (for foreign students)-Interactive Session
Electives
TOTAL

		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR	LECTURE PLATFORM
1st Week (06 December - 10 December 2021)				
Cyprus local time	Turkey local time			
Monday		06 December		
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			
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	IN CLASS
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	IN CLASS
16:40-17:30	17:40-18:30			
Tuesday		07 December		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	Homeostasis - online	Dr. Berrak Yegen	MU UZEM
09:40-10:30	10:40-11:30	Introduction to metabolism and metabolic control - online	Dr. Betül Yılmaz	MU UZEM
10:40-11:30	11:40-12:30	Introduction to metabolism and metabolic control - online	Dr. Betül Yılmaz	MU UZEM
12:40-13:30	13:40-14:30	ICS-1-First Aid	Dr. Bülent Sezgin	IN CLASS
13:40-14:30	14:40-15:30	ICS-1-First Aid	Dr. Bülent Sezgin	IN CLASS
14:40-15:30	15:40-16:30	Introduction to statistical analysis	Dr. İlke Akçay	IN CLASS
15:40-16:30	16:40-17:30	Sampling, distribution and estimation	Dr. İlke Akçay	IN CLASS
Wednesday		08 December		
07:40-08:30	08:40-09:30	STUDY TIME		

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	What is probability and probability distribution?	Dr. İlke Akçay	IN CLASS
14:40-15:30	15:40-16:30	Bayes' Theorem	Dr. İlke Akçay	IN CLASS
15:40-16:30	16:40-17:30	STUDY TIME		
Thursday		09 December		
07:40-08:30	08:40-09:30	ICS-1 Written Exam	Dr. Nilüfer Güzoğlu	
08:40-09:30	09:40-10:30	ICS-1 Practical Exam	Dr. Bülent Sezgin Dr. Nilüfer Güzoğlu Dr. Amber Eker Dr. Eren Sakallı	
09:40-10:30	10:40-11:30	ICS-1 Practical Exam		
10:40-11:30	11:40-12:30	ICS-1 Practical Exam		
12:40-13:30	13:40-14:30	ICS-1 Practical Exam	Dr. Bülent Sezgin Dr. Nilüfer Güzoğlu Dr. Amber Eker Dr. Eren Sakallı	
13:40-14:30	14:40-15:30	ICS-1 Practical Exam		
14:40-15:30	15:40-16:30	ICS-1 Practical Exam		
15:40-16:30	16:40-17:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS TEAMS
16:40-17:30	17:40-18:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS TEAMS
Friday		10 December		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	ICS-1 Research: Theme of ICS-1 Research studies	Dr. İlke Akçay	IN CLASS
10:40-11:30	11:40-12:30	PBL-1	Dr. Mümtaz Güran Dr. Ergül Mutlu Altundağ Dr. Maryam Norouzbahari Dr. Gülcem Altınoğlu Dr. Mete Özkoç	IN CLASS
11:40-12:30	12:40-13:30	PBL-1		

			Inst. Gizem Şanlıtürk Inst. Katriye Komili	
12:40-13:30	13:40-14:30	ICS-1 Research: Contents in the Introduction part of a research study	Dr. İlke Akçay	IN CLASS
13:40-14:30	14:40-15:30	ICS-1 Research: Topic & Title	Dr. İlke Akçay	IN CLASS
14:40-15:30	15:40-16:30	ICS-1 Research: General and Specific objectives	Dr. İlke Akçay	IN CLASS
15:40-16:30	16:40-17:30	ICS-1 Research: Writing a research question	Dr. İlke Akçay	IN CLASS
2nd Week (13 December - 17 December 2021)				
Cyprus local time	Turkey local time			
Monday		13 December		
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			
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	IN CLASS
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		
Tuesday		14 December		
07:40-08:30	08:40-09:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
08:40-09:30	09:40-10:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
09:40-10:30	10:40-11:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu	MS TEAMS

			Dr. İlke Akçay	
10:40-11:30	11:40-12:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
12:40-13:30	13:40-14:30	Bioelectric potentials - <i>online</i>	Dr. Berrak Yegen	MU UZEM
13:40-14:30	14:40-15:30	Bioelectric potentials - <i>online</i>	Dr. Berrak Yegen	MU UZEM
14:40-15:30	15:40-16:30	Role of organelles in the metabolism - <i>online</i>	Dr. Betül Yılmaz	MU UZEM
15:40-16:30	16:40-17:30	STUDY TIME		
Wednesday		15 December		
07:40-08:30	08:40-09:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
08:40-09:30	09:40-10:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
09:40-10:30	10:40-11:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
10:40-11:30	11:40-12:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
12:40-13:30	13:40-14:30	Introduction to bioelectricity-I	Dr. Cevdet Nacar	IN CLASS
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-II	Dr. Cevdet Nacar	IN CLASS
15:40-16:30	16:40-17:30	Introduction to bioelectricity-II	Dr. Cevdet Nacar	IN CLASS
Thursday		16 December		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	Physical characteristics of membrane structure and function	Dr. Cevdet Nacar	IN CLASS

09:40-10:30	10:40-11:30	Membrane proteins	Dr. Cevdet Nacar	IN CLASS
10:40-11:30	11:40-12:30	STUDY TIME		
12:40-13:30	13:40-14:30	Tricarboxylic acid cycle and hexose monophosphate shunt	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
Friday		17 December		
07:40-08:30	08:40-09:30	Electron transport chain	Dr. Goncagül Haklar	IN CLASS
08:40-09:30	09:40-10:30	Electron transport chain	Dr. Goncagül Haklar	IN CLASS
09:40-10:30	10:40-11:30	Oxidative Phosphorylation	Dr. Goncagül Haklar	IN CLASS
10:40-11:30	11:40-12:30	Oxidative Phosphorylation	Dr. Goncagül Haklar	IN CLASS
12:40-13:30	13:40-14:30	CSL-1 Medical and surgical asepsis	Dr. Bülent Sezgin Dr. Nilüfer Güzoğlu Dr. Amber Eker Dr. Eren Sakallı Dr. Didem Rıfki	
13:40-14:30	14:40-15:30	CSL-1 Medical and surgical asepsis		
14:40-15:30	15:40-16:30	CSL-1 Hand hygiene procedure		
15:40-16:30	16:40-17:30	CSL-1 Wear and remove sterile gloves		
		3rd Week (20 December - 24 December 2021)		
Cyprus local time	Turkey local time			
Monday		20 December		
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			
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	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) (MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Deren Çeker	IN CLASS
16:40-17:30	17:40-18:30			
Tuesday		21 December		
07:40-08:30	08:40-09:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
08:40-09:30	09:40-10:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
09:40-10:30	10:40-11:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
10:40-11:30	11:40-12:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
12:40-13:30	13:40-14:30	ICS-1 Research: Contents in the Material and Methods part of a research study	Dr. İlke Akçay	IN CLASS
13:40-14:30	14:40-15:30	ICS-1 Research: Questionnaire as a data collection tool	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	ICS-1 Research: Questionnaire design	Dr. İlke Akçay	IN CLASS
Wednesday		22 December		
07:40-08:30	08:40-09:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
08:40-09:30	09:40-10:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
09:40-10:30	10:40-11:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya	MS TEAMS

			Dr. Nilüfer Güzoğlu Dr. İlke Akçay	
10:40-11:30	11:40-12:30	ICS-1 Communication Skills	Dr. Sinem Yıldız İnanıcı Dr. Özlem Sarıkaya Dr. Nilüfer Güzoğlu Dr. İlke Akçay	MS TEAMS
12:40-13:30	13:40-14:30	Electrochemical potentials, Nernst potential	Dr. Günseli Ayşe Garip İhan	IN CLASS
13:40-14:30	14:40-15:30	Membrane potentials and action potential	Dr. Günseli Ayşe Garip İhan	IN CLASS
14:40-15:30	15:40-16:30	Membrane potentials and action potential	Dr. Günseli Ayşe Garip İhan	IN CLASS
15:40-16:30	16:40-17:30	Flow of energy in nature, first law of thermodynamics	Dr. Günseli Ayşe Garip İhan	IN CLASS
Thursday		23 December		
07:40-08:30	08:40-09:30	Flow of energy in nature, first law of thermodynamics	Dr. Günseli Ayşe Garip İhan	IN CLASS
08:40-09:30	09:40-10:30	The second law of thermodynamics, entropy, free energy	Dr. Günseli Ayşe Garip İhan	IN CLASS
09:40-10:30	10:40-11:30	The second law of thermodynamics, entropy, free energy	Dr. Günseli Ayşe Garip İhan	IN CLASS
10:40-11:30	11:40-12:30	Free energy and thermodynamic properties of water	Dr. Günseli Ayşe Garip İhan	IN CLASS
12:40-13:30	13:40-14:30	STUDY TIME		
13:40-14:30	14:40-15:30	Transport of substances	Dr. Ethem Gelir	IN CLASS
14:40-15:30	15:40-16:30	Transport of substances	Dr. Ethem Gelir	IN CLASS
15:40-16:30	16:40-17:30	Signal transduction	Dr. Özgür Kasımay Çakır	IN CLASS
16:40-17:30	17:40-18:30	Cell to cell adhesions	Dr. Özgür Kasımay Çakır	IN CLASS
Friday		24 December		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	Intercellular communication	Dr. Alper Yıldırım	IN CLASS
09:40-10:30	10:40-11:30	Physiology LAB: Cell Physiology-Group A	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım	IN CLASS

10:40-11:30	11:40-12:30	Physiology LAB: Cell Physiology-Group A	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım	IN CLASS
12:40-13:30	13:40-14:30	Physiology LAB: Cell Physiology-Group B	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım	IN CLASS
13:40-14:30	14:40-15:30	Physiology LAB: Cell Physiology-Group B	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım	IN CLASS
14:40-15:30	15:40-16:30	Physiology LAB: Cell Physiology-Group C	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım	IN CLASS
15:40-16:30	16:40-17:30	Physiology LAB: Cell Physiology-Group C	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım	IN CLASS
4th Week (27 December - 31 December 2021)				
Cyprus local time	Turkey local time			
Monday		27 December		
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			
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	IN CLASS
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	IN CLASS
16:40-17:30	17:40-18:30			
Tuesday		28 December		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	Overview 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
12:40-13:30	13:40-14:30	Regulation of glycolysis	Dr. Betül Yılmaz	IN CLASS

14:40-15:30	15:40-16:30	PBL-2	Dr. Mümtaz Güran Dr. Ergül Mutlu Altundağ Dr. Maryam Norouzbahari Dr. Gülcem Altınoğlu Dr. Mete Özkoç Inst. Gizem Şanlıtürk Inst. Katriye Komili	IN CLASS
15:40-16:30	16:40-17:30	PBL-2		
Wednesday		29 December		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	Regulation of glycolysis	Dr. Betül Yılmaz	IN CLASS
09:40-10:30	10:40-11:30	Gluconeogenesis and glycogen metabolism-1	Dr. Betül Yılmaz	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	Gluconeogenesis and glycogen metabolism-1	Dr. Betül Yılmaz	IN CLASS
14:40-15:30	15:40-16:30	Gluconeogenesis and glycogen metabolism-2	Dr. Betül Yılmaz	IN CLASS
15:40-16:30	16:40-17:30	Gluconeogenesis and glycogen metabolism-2	Dr. Betül Yılmaz	IN CLASS
Thursday		30 December		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	Biochemistry LAB: Electron Transport Chain-Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr1 & Gr2)	Dr. İlke Akçay	MS TEAMS
09:40-10:30	10:40-11:30	Biochemistry LAB: Electron Transport Chain-Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr3 & Gr4)	Dr. İlke Akçay	MS TEAMS
10:40-11:30	11:40-12:30	Biochemistry LAB: Electron Transport Chain-Group A	Dr. Ergül Mutlu Altundağ	IN CLASS

		ICS-1 Research: Critics with groups (Gr5 & Gr6)	Dr. İlke Akçay	MS TEAMS
12:40-13:30	13:40-14:30	Biochemistry LAB: Electron Transport Chain-Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr7 & Gr8)	Dr. İlke Akçay	MS TEAMS
13:40-14:30	14:40-15:30	Biochemistry LAB: Electron Transport Chain-Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr9 & Gr10)	Dr. İlke Akçay	MS TEAMS
14:40-15:30	15:40-16:30	Biochemistry LAB: Electron Transport Chain-Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr11 & Gr12)	Dr. İlke Akçay	MS TEAMS
15:40-16:30	16:40-17:30	STUDY TIME		
Friday		31 December		
07:40-08:30	08:40-09:30	STUDY TIME		
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		
12:40-13:30	13:40-14:30	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		
5th Week (03 January - 07 January 2022)				
Cyprus local time	Turkey local time			
Monday		03 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			

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	IN CLASS
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	IN CLASS
16:40-17:30	17:40-18:30			
Tuesday		04 January		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	PBL STUDY TIME	Dr. Mümtaz Güran Dr. Ergül Mutlu Altundağ Dr. Maryam Norouzbahari Dr. Gülcem Altınoğlu Dr. Mete Özkoç Inst. Gizem Şanlıtürk Inst. Katriye Komili	IN CLASS
09:40-10:30	10:40-11:30	PBL-3		
10:40-11:30	11:40-12:30	PBL-3		
12:40-13:30	13:40-14:30	Oxidation of lipids	Dr. Saime Batirel	IN CLASS
13:40-14:30	14:40-15:30	Oxidation of lipids	Dr. Saime Batirel	IN CLASS
14:40-15:30	15:40-16:30	Biosynthesis of lipids	Dr. Saime Batirel	IN CLASS
15:40-16:30	16:40-17:30	Biosynthesis of lipids	Dr. Saime Batirel	IN CLASS
Wednesday		05 January		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	Principles of statistical analysis	Dr. İlke Akçay	IN CLASS
10:40-11:30	11:40-12:30	Elements of statistical interference	Dr. İlke Akçay	IN CLASS
12:40-13:30	13:40-14:30	Biosynthesis of lipids	Dr. Saime Batirel	IN CLASS
13:40-14:30	14:40-15:30	Biosynthesis of lipids	Dr. Saime Batirel	IN CLASS
14:40-15:30	15:40-16:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS TEAMS

15:40-16:30	16:40-17:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS TEAMS
Thursday		06 January		
07:40-08:30	08:40-09:30	STUDY TIME		
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	Physical principles: Diffusion and facilitated transport	Dr. Hülya Cabadak	MS TEAMS
12:40-13:30	13:40-14:30	Physical principles: Diffusion and facilitated transport	Dr. Hülya Cabadak	MS TEAMS
13:40-14:30	14:40-15:30	Active transport and secondary active transport	Dr. Hülya Cabadak	MS TEAMS
14:40-15:30	15:40-16:30	Coupling of biological reactions with high energy metabolite	Dr. Hülya Cabadak	MS TEAMS
15:40-16:30	16:40-17:30	Coupling of biological reactions with high energy metabolite	Dr. Hülya Cabadak	MS TEAMS
16:40-17:30	17:40-18:30	Energetics of electron transport	Dr. Hülya Cabadak	MS TEAMS
Friday		07 January		
08:40-09:30	09:40-10:30	ICS-1 Research: Study population and Sample Size Calculation	Dr. İlke Akçay	IN CLASS
09:40-10:30	10:40-11:30	ICS-1 Research: Choosing appropriate Sampling method	Dr. İlke Akçay	IN CLASS
10:40-11:30	11:40-12:30	ICS-1 Research: Choosing appropriate Sampling method	Dr. İlke Akçay	IN CLASS
11:40-12:30	12:40-13:30	ICS-1 Research: Putting all together, Design of a Research study	Dr. İlke Akçay	IN CLASS
12:40-13:30	13:40-14:30	PBL STUDY TIME	Dr. Mümtaz Güran Dr. Ergül Mutlu Altundağ Dr. Maryam Norouzbahari Dr. Gülcem Altınoğlu Dr. Mete Özkoç Inst. Gizem Şanlıtürk Inst. Katriye Komili	IN CLASS
13:40-14:30	14:40-15:30	PBL-4		
14:40-15:30	15:40-16:30	PBL-4		

15:40-16:30	16:40-17:30	STUDY TIME		
6th Week (10 January - 14 January 2022)				
Cyprus local time	Turkey local time			
Monday		10 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			
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	IN CLASS
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	MS TEAMS
16:40-17:30	17:40-18:30			
Tuesday		11 January		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
09:40-10:30	10:40-11:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
10:40-11:30	11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
12:40-13:30	13:40-14:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr1 & Gr2)	Dr. İlke Akçay	MS TEAMS

13:40-14:30	14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr3 & Gr4)	Dr. İlke Akçay	MS TEAMS
14:40-15:30	15:40-16:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr5 & Gr6)	Dr. İlke Akçay	MS TEAMS
15:40-16:30	16:40-17:30	STUDY TIME		
Wednesday		12 January		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	STUDY TIME		
09:40-10:30	10:40-11:30	Testing statistical hypothesis	Dr. İlke Akçay	IN CLASS
10:40-11:30	11:40-12:30	Types of errors in statistical inference	Dr. İlke Akçay	IN CLASS
12:40-13:30	13:40-14:30	Applications of recombinant DNA technology in medicine- <i>online</i>	Dr. Mustafa Akkiprik	MU UZEM
13:40-14:30	14:40-15:30	Applications of recombinant DNA technology in medicine- <i>online</i>	Dr. Mustafa Akkiprik	MU UZEM
14:40-15:30	15:40-16:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS TEAMS
15:40-16:30	16:40-17:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS TEAMS
Thursday		13 January		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
09:40-10:30	10:40-11:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
10:40-11:30	11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
12:40-13:30	13:40-14:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr7 & Gr8)	Dr. İlke Akçay	MS TEAMS

13:40-14:30	14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr9 & Gr10)	Dr. İlke Akçay	MS TEAMS
14:40-15:30	15:40-16:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ	IN CLASS
		ICS-1 Research: Critics with groups (Gr11 & Gr12)	Dr. İlke Akçay	MS TEAMS
15:40-16:30	16:40-17:30	STUDY TIME		
Friday		14 January		
08:40-09:30	09:40-10:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS TEAMS
09:40-10:30	10:40-11:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk	MS TEAMS
10:40-11:30	11:40-12:30	Difference between parametric and nonparametric methods; Introduction to parametric methods	Dr. İlke Akçay	MS TEAMS
11:40-12:30	12:40-13:30	One sample t-test, unpaired t-test and paired t-test	Dr. İlke Akçay	MS TEAMS
12:40-13:30	13:40-14:30	STUDY TIME		
13:40-14:30	14:40-15:30	Importance of genome projects in medicine	Dr. Adil Şeytanoğlu	MS TEAMS
14:40-15:30	15:40-16:30	Genome of mitochondria	Dr. Adil Şeytanoğlu	MS TEAMS
15:40-16:30	16:40-17:30	STUDY TIME		
7th Week (17 January - 21 January 2022)				
Cyprus local time	Turkey local time			
Monday		17 January		
07:40-08:30	08:40-09:30	STUDY TIME		
08:40-09:30	09:40-10:30	Atatürk's Principles and History of Modern Turkey (Exam)	Dr. Turgay Bülent Göktürk	MS TEAMS
09:40-10:30	10:40-11:30	Atatürk's Principles and History of Modern Turkey (Exam)	Dr. Turgay Bülent Göktürk	MS TEAMS

10:40-11:30	11:40-12:30	STUDY TIME		
12:40-13:30	13:40-14:30	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		
Tuesday		18 January		
07:40-08:30	08:40-09:30	STUDY TIME		
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		
12:40-13:30	13:40-14:30	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		
Wednesday		19 January		
07:40-08:30	08:40-09:30	STUDY TIME		
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		
12:40-13:30	13:40-14:30	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		

Thursday		20 January		
07:40-08:30	08:40-09:30	Y1C2 THEORETICAL EXAM	Dr.Ergül Mutlu Altundağ Inst.Hatice Efehan Dr.Nilüfer Güzoğlu Inst.Kadir Çakıral Dr.Mümtaz Güran Dr.Eren Sakallı Inst.Gizem Şanlıtürk	
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30			
10:40-11:30	11:40-12:30			
12:40-13:30	13:40-14:30	Committee Exam Feedback Session	Dr. Ergül Mutlu Altundağ Dr. Eren Sakallı	IN CLASS
13:40-14:30	14:40-15:30			
14:40-15:30	15:40-16:30			
15:40-16:30	16:40-17:30			
Friday		21 January		
07:40-08:30	08:40-09:30			
08:40-09:30	09:40-10:30			
09:40-10:30	10:40-11:30			
10:40-11:30	11:40-12:30			
12:40-13:30	13:40-14:30			
13:40-14:30	14:40-15:30			
14:40-15:30	15:40-16:30			
15:40-16:30	16:40-17:30			