



CELLULAR METABOLISM AND TRANSPORT COURSE
Year 1 Course 2
December 14, 2020 –January 29, 2021

Year 1 Coordinators Prof., Mustafa AKKİPRİK & Assoc. Prof., Dilek AKAKIN & Assist. Prof., Ergül MUTLU ALTUNDAĞ	
PBL Module Coordinator Prof., Özlem SARIKAYA Assist. Prof., Bülent SEZGİN	Coordinator of Multidisciplinary Students' Lab. Assoc. Prof., Betül KARADEMİR Assist. Prof., Mümtaz
Coordinator of Clinical Skill Lab. Prof., Pemra ÜNALAN Assoc. Prof., Nilüfer GÜZOĞLU	Coordinator of ICS Res. Lab. Prof., Pemra ÜNALAN Assist. Prof., İlke AKÇAY
Vice-Chief Coordinators	
Assessment Asist. Prof., Cevdet NACAR Assist. Prof., Halil Eren SAKALLI	Student Affairs Asist. Prof., Can ERZİK Inst. Yöneter MERAY
Chief Coordinator Assoc. Prof., Hasan YANANLI Assist. Prof., Mümtaz GÜRAN	Coordinator of Medical Education Program Evaluation and Development Commission Prof., Berrak Ç. YEĞEN
Educational Consultant Assoc. Prof., Mehmet Ali GÜLPINAR	
Dean (EMU) Prof., Nahide GÖKÇORA	Dean (MU) Prof., Hakan GÜNDÜZ

LEARNING OUTCOMES / COMPETENCIES

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

Alper YILDIRIM, Assist. Prof., Physiology
Ayşe KOZANSOY, Instructor, Medical English
Berrak YEĞEN, Prof., Physiology
Betül KARADEMİR, Assoc. Prof., Biochemistry
Cemal GÜRKAN, Instructor, Forensic Sciences
Cevdet NACAR, Assist. Prof., Biophysics
Deren ÇEKER, Instructor, Medical Anthropology
Emine Özerinç, Instructor, Turkish Language
Ergül Mutlu ALTUNDAĞ, Assist. Prof., Biochemistry
Goncagül HAKLAR, Prof., Biochemistry
Günseli Ayşe Garip İNHAN, Assoc. Prof., Biophysics
Hülya CABADAK, Assoc. Prof., Biophysics

İlke AKÇAY, Assist. Prof., Biostatistics
Nazan DOĞRUER, Instructor, Medical English
Nurtane KARAGİL, Instructor, Arts and Crafts
Özgür KASIMAY, Assoc. Prof., Physiology
Özlem SARIKAYA, Prof., Medical Education
Saime BATIREL, Assist. Prof., Biochemistry
Sinem Yıldız İNANICI, Assist. Prof., Medical Education
Şerife Ç. SÖKMEZ, Instructor, Turkish Language
Şükrü TÜZMEN, Prof., Medical Biology
Turgay Bülent GÖKTÜRK, Assist. Prof., Atatürk's Principles and History of Modern Turkey
Yaşar İnci ALİCAN, Prof., Physiology

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

SUMMARY OF THE COURSE 1.2			
Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Medical Biology	4		4
Biochemistry	28	4	32
Biostatistics	10		10
Physiology	8	2	10
Biophysics	20		20
Subtotal	70	6	76
PBL Module	8		8
ICS-1 Student Research Activity	12	4	16
ICS-1 Communication Skills Course	8	8	16
Medical English	12		12
Atatürk's Principles and History of Modern Turkey	12		12
TFMS101-Turkish for Medical Students-1 (for foreign students)	24		24
TFMS101-Turkish for Medical Students-1 (for foreign students)-Interactive Session	11		11
Electives	8		8
TOTAL	165	18	183

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

		THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
1st Week (14-18 December 2020)			
Cyprus Local Time	Turkey Local Time		
Monday		14 December	
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30	10:40-11:30		
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Dr. Deren Çeker*
16:40-17:30	17:40-18:30		
Tuesday		15 December	
08:00-08:50	09:00-09:50	Homeostasis	Dr. Berrak Yegen
09:00-09:50	10:00-10:50	Physical principles: Diffusion and facilitated transport	Dr. Hülya Cabadak
10:00-10:50	11:00-11:50	Physical principles: Diffusion and facilitated transport	Dr. Hülya Cabadak
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	Electrochemical potentials, Nernst potential	Dr. Günseli Ayşe Garip İhan
16:30-18:30	17:30-19:30	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
Wednesday		16 December	
09:00-09:50	10:00-10:50	ICS-1 Research: Critics with groups	Dr. İlke Akçay*
10:00-10:50	11:00-11:50	ICS-1 Research: Critics with groups	Dr. İlke Akçay*
11:00-11:50	12:00-12:50	ICS-1 Research: Critics with groups	Dr. İlke Akçay*
13:00-13:50	14:00-14:50	Transport of substances	Dr. Yaşar İnci Alican
14:00-14:50	15:00-15:50	Transport of substances	Dr. Yaşar İnci Alican
15:00-15:50	16:00-16:50	PBL-1	Dr. Mümtaz Güran*

Y1C2 Last Updated: 01 June, 2021

16:00-16:50	17:00-17:50	PBL-1	Dr. İlke Akçay* Dr. Maryam Norouzbahari* Inst. Gizem Şanlıtürk*
Thursday		17 December	
08:00-08:50	09:00-09:50	Active transport and secondary active transport	Dr. Hülya Cabadak
09:00-09:50	10:00-10:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
10:00-10:50	11:00-11:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
12:00-12:50	13:00-13:50	Introduction to bioelectricity-I	Dr. Cevdet Nacar
13:00-13:50	14:00-14:50	Introduction to bioelectricity-I	Dr. Cevdet Nacar
14:00-14:50	15:00-15:50	Intercellular communication	Dr. Alper Yıldırım
15:00-15:50	16:00-16:50	Signal transduction	Dr. Özgür Kasımay Çakır
Friday		18 December	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Introduction to bioelectricity-II	Dr. Cevdet Nacar
10:00-10:50	11:00-11:50	Introduction to bioelectricity-II	Dr. Cevdet Nacar
13:00-13:50	14:00-14:50	Introduction to metabolism and metabolic control	Dr. Betül Karademir
14:00-14:50	15:00-15:50	Introduction to metabolism and metabolic control	Dr. Betül Karademir
15:00-15:50	16:00-16:50	STUDY TIME	
2nd Week (21-25 December 2020)			
Monday		21 December	
09:00-10:00	10:00-11:00	Turkish for Medical Students-I (Foreign Students)- EXAM (on moodle)	Inst. Şerife Ç. Sökmez*
10:00-12:30	11:00-13:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer*
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	
Tuesday		22 December	
08:00-08:50	09:00-09:50	Bioelectric potentials	Dr. Berrak Yegen
09:00-09:50	10:00-10:50	Bioelectric potentials	Dr. Berrak Yegen

Y1C2 Last Updated: 01 June, 2021

10:00-10:50	11:00-11:50	Role of organelles in the metabolism	Dr. Betül Karademir
12:00-12:50	13:00-13:50	Overview of glycolysis	Dr. Betül Karademir
13:00-13:50	14:00-14:50	Reactions of glycolysis	Dr. Betül Karademir
14:00-14:50	15:00-15:50	Reactions of glycolysis	Dr. Betül Karademir
15:00-15:50	16:00-16:50	STUDY TIME	
16:30-18:30	17:30-19:30	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
Wednesday		23 December	
09:00-09:50	10:00-10:50	ICS-1 Research: Contents in the Introduction part of a research study	Dr. İlke Akçay*
10:00-10:50	11:00-11:50	ICS-1 Research: Contents in the Introduction part of a research study	Dr. İlke Akçay*
11:00-11:50	12:00-12:50	ICS-1 Research: Contents in the Introduction part of a research study	Dr. İlke Akçay*
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	Reagulation of glycolysis	Dr. Betül Karademir
14:00-14:50	15:00-15:50	Reagulation of glycolysis	Dr. Betül Karademir
15:00-15:50	16:00-16:50	PBL-2	Dr. Mümtaz Güran* Dr. İlke Akçay*
16:00-16:50	17:00-17:50	PBL-2	Dr. Maryam Norouzbahari* Inst. Gizem Şanlıtürk*
Thursday		24 December	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	What is probability and probability distribution?	Dr. İlke Akçay*
11:00-11:50	12:00-12:50	Bayes' Theorem	Dr. İlke Akçay*
12:00-12:50	13:00-13:50	Membrane potentials and action potential	Dr. Günseli Ayşe Garip İnan
13:00-13:50	14:00-14:50	Membrane potentials and action potential	Dr. Günseli Ayşe Garip İnan
14:00-14:50	15:00-15:50	Physical characteristics of membrane structure and function	Dr. Cevdet Nacar
15:00-15:50	16:00-16:50	Cell to cell adhesions	Dr. Özgür Kasımay Çakır
Friday		25 December	
08:00-08:50	09:00-09:50	CHRISTMAS DAY	
09:00-09:50	10:00-10:50		
10:00-10:50	11:00-11:50		
13:00-13:50	14:00-14:50		
14:00-14:50	15:00-15:50		
15:00-15:50	16:00-16:50		

3rd Week (28 December 2020-01 January 2021)

Y1C2 Last Updated: 01 June, 2021

Monday		28 December	
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30	10:40-11:30		
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Dr. Deren Çeker*
16:40-17:30	17:40-18:30		
Tuesday		29 December	
09:00-09:50	10:00-10:50	Flow of energy in nature, first law of thermodynamics	Dr. Günseli Ayşe Garip İhan
10:00-10:50	11:00-11:50	Flow of energy in nature, first law of thermodynamics	Dr. Günseli Ayşe Garip İhan
11:00-11:50	12:00-12:50	STUDY TIME	
12:00-12:50	13:00-13:50	Membrane proteins	Dr. Cevdet Nacar
13:00-13:50	14:00-14:50	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar
14:00-14:50	15:00-15:50	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar
16:30-18:30	17:30-19:30	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
Wednesday		30 December	
09:00-09:50	10:00-10:50	ICS-1 Research: Contents in the Material and Methods part of a research study	Dr. İlke Akçay*
10:00-10:50	11:00-11:50	ICS-1 Research: Contents in the Material and Methods part of a research study	Dr. İlke Akçay*
11:00-11:50	12:00-12:50	ICS-1 Research: Contents in the Material and Methods part of a research study	Dr. İlke Akçay*
12:00-12:50	13:00-13:50	STUDY TIME	
13:00-13:50	14:00-14:50	The second law of thermodynamics, entropy, free energy	Dr. Günseli Ayşe Garip İhan
14:00-14:50	15:00-15:50	The second law of thermodynamics, entropy, free energy	Dr. Günseli Ayşe Garip İhan
15:00-15:50	16:00-16:50	PBL-3	Dr. Mümtaz Güran* Dr. İlke Akçay*
16:00-16:50	17:00-17:50	PBL-3	Dr. Maryam Norouzbahari* Inst. Gizem Şanlıtürk*
Thursday		31 December	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	Principles of statistical analysis	Dr. İlke Akçay*
11:00-11:50	12:00-12:50	Elements of statistical inference	Dr. İlke Akçay*

Y1C2 Last Updated: 01 June, 2021

12:00-12:50	13:00-13:50	Coupling of biological reactions with high energy metabolite	Dr. Hülya Cabadak
13:00-13:50	14:00-14:50	Coupling of biological reactions with high energy metabolite	Dr. Hülya Cabadak
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	STUDY TIME	
16:00-16:50	16:00-16:50	STUDY TIME	
Friday		01 January	
08:00-08:50	09:00-09:50	NEW YEAR HOLIDAY	
09:00-09:50	10:00-10:50		
10:00-10:50	11:00-11:50		
13:00-13:50	14:00-14:50		
14:00-14:50	15:00-15:50		
15:00-15:50	16:00-16:50		
4th Week (04– 08 January 2021)			
Monday		04 January	
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30	10:40-11:30		
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Dr. Deren Çeker*
16:40-17:30	17:40-18:30		
Tuesday		05 January	
09:00-09:50	10:00-10:50	Applications of recombinant DNA technology in medicine	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	Applications of recombinant DNA technology in medicine	Dr. Şükrü Tüzmen*
11:00-11:50	12:00-12:50	STUDY TIME	
12:00-12:50	13:00-13:50	Free energy and thermodynamic properties of water	Dr. Günseli Ayşe Garip İhan
13:00-13:50	14:00-14:50	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar
14:00-14:50	15:00-15:50	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar
15:00-15:50	16:00-16:50	STUDY TIME	
16:30-18:30	17:30-19:30	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*

Y1C2 Last Updated: 01 June, 2021

Wednesday		06 January	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
10:00-10:50	11:00-11:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
12:00-12:50	13:00-13:50	Introduction to statistical analysis	Dr. İlke Akçay*
13:00-13:50	14:00-14:50	Sampling, distribution and estimation	Dr. İlke Akçay*
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	PBL-4	Dr. Mümtaz Güran* Dr. İlke Akçay*
16:00-16:50	17:00-17:50	PBL-4	Dr. Maryam Norouzbahari* Inst. Gizem Şanlıtürk*
Thursday		07 January	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-12:50	13:00-13:50	Electron transport chain	Dr. Goncagül Haklar
13:00-13:50	14:00-14:50	Electron transport chain	Dr. Goncagül Haklar
14:00-14:50	15:00-15:50	Energetics of electron transport	Dr. Hülya Cabadak
Friday		08 January	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Oxidative Phosphorylation	Dr. Goncagül Haklar
10:00-10:50	11:00-11:50	Oxidative Phosphorylation	Dr. Goncagül Haklar
11:00-11:50	12:00-12:50	STUDY TIME	
13:00-13:50	14:00-14:50	ICS-1 Research: Questionnaire as a data collection tool	Dr. İlke Akçay*
14:00-14:50	15:00-15:50	ICS-1 Research: Questionnaire design	Dr. İlke Akçay*
15:00-15:50	16:00-16:50	ICS-1 Research: Questionnaire design	Dr. İlke Akçay*
5th Week (11-15 January 2021)			
Monday		11 January	
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30	10:40-11:30		
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Dr. Deren Çeker*
16:40-17:30	17:40-18:30		
Tuesday		12 January	

Y1C2 Last Updated: 01 June, 2021

08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Oxidation of lipids	Dr. Saime Batirel
10:00-10:50	11:00-11:50	Oxidation of lipids	Dr. Saime Batirel
12:00-12:50	13:00-13:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
13:00-13:50	14:00-14:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
14:00-14:50	15:00-15:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
16:30-18:30	17:30-19:30	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
Wednesday		13 January	
09:00-09:50	10:00-10:50	Genome of mitochondria	Dr. Şükrü Tüzmen*
10:00-10:50	11:00-11:50	Importance of genome projects in medicine	Dr. Şükrü Tüzmen*
11:00-11:50	12:00-12:50	STUDY TIME	
13:00-13:50	14:00-14:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
14:00-14:50	15:00-15:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
15:00-15:50	16:00-16:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
16:00-16:50	17:00-17:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
			"
Thursday		14 January	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Testing statistical hypothesis	Dr. İlke Akçay*
10:00-10:50	11:00-11:50	Types of errors in statistical inference	Dr. İlke Akçay*
12:00-12:50	13:00-13:50	Biosynthesis of lipids	Dr. Saime Batirel*
13:00-13:50	14:00-14:50	Biosynthesis of lipids	Dr. Saime Batirel*
14:00-14:50	15:00-15:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
15:00-15:50	16:00-16:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
Friday		15 January	
09:00-09:50	10:00-10:50	Biosynthesis of lipids	Dr. Saime Batirel*
10:00-10:50	11:00-11:50	Biosynthesis of lipids	Dr. Saime Batirel*
11:00-11:50	12:00-12:50	STUDY TIME	
12:00-12:50	13:00-13:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
13:00-13:50	14:00-14:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı*

Y1C2 Last Updated: 01 June, 2021

			Dr. İlke Akçay*
14:00-14:50	15:00-15:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
15:00-15:50	16:00-16:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
6th Week (18-22 January 2021)			
Monday		18 January	
08:40-09:30	09:40-10:30	Turkish for Medical Students-I (Foreign Students)	Inst. Şerife Ç. Sökmez*
09:40-10:30	10:40-11:30		
10:40-11:30	11:40-12:30		
11:40-12:30	12:40-13:30		
13:40-14:30	14:40-15:30	Medical English (Gr 1 & Gr 2)	Dr. Nazan Doğruer* Inst. Ayşe Kozansoy*
14:40-15:30	15:40-16:30		
15:40-16:30	16:40-17:30	Elective Courses (MDCN-181-Forensic Sciences) (MDCN-182-Art and Craft) (MDCN-125-Medical Anthropology)	Dr. Cemal Gürkan* Inst. Nurtane Karagil* Dr. Deren Çeker*
16:40-17:30	17:40-18:30		
Tuesday		19 January	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Gluconeogenesis and glycogen metabolism-1	Dr. Betül Karademir
10:00-10:50	11:00-11:50	Gluconeogenesis and glycogen metabolism-1	Dr. Betül Karademir
12:00-12:50	13:00-13:50	ICS-1 Research: Study population and Sample Size Calculation	Dr. İlke Akçay*
13:00-13:50	14:00-14:50	ICS-1 Research: Choosing appropriate Sampling method	Dr. İlke Akçay*
14:00-14:50	15:00-15:50	ICS-1 Research: Choosing appropriate Sampling method	Dr. İlke Akçay*
16:30-18:30	17:30-19:30	Atatürk İlke ve İnkılap tarihi	Dr. Turgay Bülent Göktürk*
Wednesday		20 January	
09:00-09:50	10:00-10:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
10:00-10:50	11:00-11:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
11:00-11:50	12:00-12:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
12:00-12:50	13:00-13:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*

Y1C2 Last Updated: 01 June, 2021

13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	STUDY TIME	
Thursday		21 January	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Difference between parametric and nonparametric methods; Introduction to parametric methods	Dr. İlke Akçay*
10:00-10:50	11:00-11:50	One sample t-test, unpaired t-test and paired t-test	Dr. İlke Akçay*
12:00-13:50	13:00-13:50	Gluconeogenesis and glycogen metabolism-2	Dr. Betül Karademir
13:00-14:50	14:00-14:50	Gluconeogenesis and glycogen metabolism-2	Dr. Betül Karademir
14:00-15:50	15:00-15:50	ICS-1 Research: Putting all together, Design of a Research study	Dr. İlke Akçay*
Friday		22 January	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
11:00-11:50	12:00-12:50	Turkish For Medical Students-I (Interactive Session for Foreign Students)	Inst. Emine Özerinç*
13:00-13:50	14:00-14:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
14:00-14:50	15:00-15:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
15:00-15:50	16:00-16:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
16:00-16:50	17:00-17:50	ICS-1 Communication Skills Course	Dr. Özlem Sarıkaya* Dr. Sinem Yıldız İnanıcı* Dr. İlke Akçay*
Saturday		23 January	
10:00-12:00	11:00-13:00	TFMS101-EXAM (on moodle)	Inst. Şerife Ç. Sökmez*
7th Week (25-29 January 2021)			
Monday		25 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	

Y1C2 Last Updated: 01 June, 2021

15:40-16:30	16:40-17:30	STUDY TIME	
16:40-17:30	17:40-18:30	STUDY TIME	
Tuesday		26 January	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	Physiology LAB: Cell Physiology	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
10:00-10:50	11:00-11:50	Physiology LAB: Cell Physiology	Dr. Özgür Kasımay Çakır Dr. Alper Yıldırım
12:00-12:50	13:00-13:50	Biochemistry LAB: Anaerobic Glycolysis	Dr. Ergül Mutlu Altundağ*
13:00-13:50	14:00-14:50	Biochemistry LAB: Anaerobic Glycolysis	Dr. Ergül Mutlu Altundağ*
14:00-14:50	15:00-15:50	STUDY TIME	
Wednesday		27 January	
09:00-09:50	10:00-10:50	Biochemistry LAB: Electron Transport Chain	Dr. Ergül Mutlu Altundağ*
10:00-10:50	11:00-11:50	Biochemistry LAB: Electron Transport Chain	Dr. Ergül Mutlu Altundağ*
11:00-11:50	12:00-12:50	STUDY TIME	
13:00-13:50	14:00-14:50	STUDY TIME	
14:00-14:50	15:00-15:50	STUDY TIME	
15:00-15:50	16:00-16:50	STUDY TIME	
Thursday		28 January	
08:00-08:50	09:00-09:50	STUDY TIME	
09:00-09:50	10:00-10:50	STUDY TIME	
10:00-10:50	11:00-11:50	STUDY TIME	
12:00-13:50	13:00-13:50	STUDY TIME	
13:00-14:50	14:00-14:50	STUDY TIME	
14:00-15:50	15:00-15:50	STUDY TIME	
Friday		29 January	
09:00-09:50	10:00-10:50	Y1C2 THEORETICAL EXAM	
10:00-10:50	11:00-11:50		
11:00-11:50	12:00-12:50		
13:00-13:50	14:00-14:50	Y1C2 EXAM FEEDBACK SESSION	Dr. Ergül Mutlu Altundağ* Dr. Halil Eren Sakallı*
14:00-14:50	15:00-15:50		
15:00-15:50	16:00-16:50		