



CELLULAR METABOLISM AND TRANSPORT COURSE
Year 1 Course 2
November 28, 2016 – January 13, 2017

Coordinator of the Course 1.2 Assist. Prof., Ilke Akçay	
Coordinator of Multidisciplinary Students' Lab. Assist. Prof., Mümtaz Güran	Coordinator of Clinical Skill Lab. Dr. Berfu Çerçi Öngün
Coordinators of Assessment Unite Asist. Prof., Mümtaz GÜRAN, Assist. Prof. Mevhibe Hocaoğlu	Coordinator of ICS Res. Lab. Asist. Prof. Ilke Akçay
Year 1 Coordinators Assoc. Prof., Arzu UZUNER & Assoc. Prof., Mustafa AKKİPRİK	
Module Coordinator Assoc. Prof., Özlem SARIKAYA	Introduction to Clinician Skills(ICS) Coordinators Prof., Sibel KALAÇA, Assoc. Prof., Pemra ÜNALAN
Coordinator of Multidisciplinary Students' Lab. Assoc. Prof., Betül KARADEMİR	Coordinator of Assessment Unite Asist. Prof., Cevdet NACAR
Vice-Chief Coordinators	
Assessment Asist. Prof., Cevdet NACAR	Students' Affairs Asist. Prof., Can ERZİK
Chief Coordinator Assoc. Prof., Hasan YANANLI	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	Acting Dean (MU) Prof., Ömer GÜNAL

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	PROGRAM EVALUATION
<p>Module examination: Written exam at the end of module (10 % of final score)</p> <p>Practical examination: Practical exams at the end of course</p> <p>Course examination: Written exam at the end of course</p>	<p>Evaluation at the end of the course, is done both orally and by using structured evaluation forms</p>
DEPARTMENTS PARTICIPATING IN COURSE-1 & MODULE-2	
<ul style="list-style-type: none"> • Biochemistry • Biophysics • Biostatistics 	<ul style="list-style-type: none"> • Medical Biology • Physiology
LECTURERS / TUTORS	
<p>Alper YILDIRIM, Assist. Prof., Physiology Ayfer CİVİSİLLİ, Instructor, Medical English Ayşe Garip İNHAN, Assoc. Prof., Biophysics Ayşe KOZANSOY, Instructor, Medical English Berfu Çerçi ÖNGÜN, Instructor, Anatomy Berrak YEĞEN, Prof., Physiology Betül KARADEMİR, Assist. Prof., Biochemistry Cevdet NACAR, Assist. Prof., Biophysics Goncagül HAKLAR, Prof., Biochemistry Hızır KURTEL, Prof., Physiology Hülya CABADAK, Assoc. Prof., Biophysics Ilke AKÇAY, Assist. Prof., Biostatistics</p>	<p>İnci ALİCAN, Prof., Physiology Mevhibe HOCAOĞLU, Assist. Prof., Public Health Mümtaz GÜRAN, Assist. Prof., Microbiology Nevber İSTİLLOZLU, Instructor, Turkish Communication Saime BATIREL, Assist. Prof., Biochemistry Sibel SAKARYA, Prof., Public Health Şerife Çelebi SÖKMEZ, Instructor, Turkish Communication Şükrü TÜZMEN, Assoc. Prof., Medical Biology Turgay Bülent GÖKTÜRK, Instructor, Atatürk Research Center</p>
READING / STUDYING MATERIALS	
<ul style="list-style-type: none"> • 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 • Molecular Biology of the Cell, Alberts et al. 5rd Ed., Garland 	

SUMMARY OF THE COURSE 1.2			
Discipline	Lecture & Group Discussion	Multidisciplinary Lab. & Clinical Skills Lab. Practice	Total
Biochemistry	26	9	35
Biophysics	20		20
Biostatistics	10		10
Medical Biology	4		4
Physiology	8	2	10
Subtotal	68	11	79
PBL Module	8		8
ICS-1 Computer Skills in Medicine and Student Research Activities	12		12
Medical English	22		22
Atatürk's Principles and History of Modern Turkey	10		10
Communication in Turkish-I (for foreign students)	26		26
Electives	12		12
TOTAL	158	11	169

THEORETICAL AND PRACTICAL SESSIONS		LECTURER/TUTOR
Week-1 (28 November - 02 December, 2016)		
Monday	28 November	
08:40-09:30	Medical English (Gr1)	Sn.Inst. Ayşe Kozansoy
09:40-10:30	Medical English (Gr1)	Sn.Inst. Ayşe Kozansoy
10:40-11:30		
11:40-12:30	Introduction to the course	Dr. Ilke Akçay
13:40-14:30	Medical English (Gr1 & Gr2)	Sn.Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civisilli
14:40-15:30	Medical English (Gr1 & Gr2)	Sn.Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civisilli
15:40-16:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
16:40-17:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
Tuesday	29 November	
08:40-09:30		
09:40-10:30	Homeostasis	Dr. Berrak Yegen
10:40-11:30	Signal transduction	Dr. Berrak Yegen
11:40-12:30	Cell to cell adhesions	Dr. Berrak Yegen
13:40-14:30	Elective course	
14:40-15:30	Elective course	
15:40-16:30	Elective course	
16:40-17:30	Elective course	
Wednesday	30 November	

08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30	Physical characteristics of membrane structure and function	Dr. Cevdet Nacar
14:40-15:30	Membrane proteins	Dr. Cevdet Nacar
15:40-16:30	Introduction to bioelectricity-I	Dr. Cevdet Nacar
16:40-17:30	Introduction to bioelectricity-I	Dr. Cevdet Nacar
Thursday	01 December	
08:40-09:30	Introduction to bioelectricity-II	Dr. Cevdet Nacar
09:40-10:30	Introduction to bioelectricity-II	Dr. Cevdet Nacar
10:40-11:30	Introduction to metabolism and metabolic control	Dr. Betül Karademir
11:40-12:30	Introduction to metabolism and metabolic control	Dr. Betül Karademir
13:40-14:30	Physical principles: Diffusion and facilitated transport	Dr. Hülya Cabadak
14:40-15:30	Physical principles: Diffusion and facilitated transport	Dr. Hülya Cabadak
15:40-16:30	Active transport and secondary active transport	Dr. Hülya Cabadak
16:40-17:30	Overview of glycolysis	Dr. Betül Karademir
Friday	02 December	
08:40-09:30	Reactions of glycolysis	Dr. Betül Karademir
09:40-10:30	Reactions of glycolysis	Dr. Betül Karademir
10:40-11:30	Regulation of glycolysis	Dr. Betül Karademir
11:40-12:30	Regulation of glycolysis	Dr. Betül Karademir
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Week-2 (05-09 December 2016)		
Monday	05 December	
08:40-09:30	Medical English (Gr1 & Gr2)	Sn.Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civisilli
09:40-10:30	Medical English (Gr1 & Gr2)	Sn.Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civisilli
10:40-11:30	Bioelectric potentials	Dr. Berrak Yegen
11:40-12:30	Bioelectric potentials	Dr. Berrak Yegen
13:40-14:30	ICS-1; Comp&SRA: Creating a research question, discussion about	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoglu, Dr. Ilke Akçay
14:40-15:30	ICS-1; Comp&SRA: How to do effective presentations?	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoglu, Dr. Ilke Akçay
15:40-16:30	ICS-1; Comp&SRA: Effective use of powerpoint during presentation	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoglu, Dr. Ilke Akçay
16:40-17:30	ICS-1; Comp&SRA: Powerpoint practicum	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoglu, Dr. Ilke Akçay
Tuesday	06 December	
08:40-09:30	Medical English (Gr1 & Gr2)	Sn. Inst. Ayşe Kozansoy

		Sn. Inst. Ayfer Civisilli
09:40-10:30	Medical English (Gr1 & Gr2)	Sn. Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civisilli
10:40-11:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
11:40-12:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
13:40-14:30	Elective Course	
14:40-15:30	Elective Course	
15:40-16:30	Elective Course	
16:40-17:30	Elective Course	
Wednesday	07 December	
08:40-09:30	Applications of recombinant DNA technology in medicine	Dr. Şükrü Tüzmen
09:40-10:30	Applications of recombinant DNA technology in medicine	Dr. Şükrü Tüzmen
10:40-11:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk
11:40-12:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk
13:40-14:30	Introduction to statistical analysis	Dr. Ilke Akçay
14:40-15:30	Sampling, distribution and estimation	Dr. Ilke Akçay
15:40-16:30		
16:40-17:30		
Thursday	08 December	
08:40-09:30	Medical English (Gr2)	Sn. Inst. Ayfer Civisilli
09:40-10:30	Medical English (Gr2)	Sn. Inst. Ayfer Civisilli
10:40-11:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
11:40-12:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
13:40-14:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncağül Haklar
14:40-15:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncağül Haklar
15:40-16:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncağül Haklar
16:40-17:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncağül Haklar
Friday	09 December	
08:40-09:30	Electron transport chain	Dr. Goncağül Haklar
09:40-10:30	Electron transport chain	Dr. Goncağül Haklar
10:40-11:30	Oxidative Phosphorylation	Dr. Goncağül Haklar
11:40-12:30	Oxidative Phosphorylation	Dr. Goncağül Haklar
13:40-14:30	Coupling of biological reactions with high energy metabolite	Dr. Hülya Cabadak
14:40-15:30	Coupling of biological reactions with high energy metabolite	Dr. Hülya Cabadak
15:40-16:30	Energetics of electron transport	Dr. Hülya Cabadak
16:40-17:30		

Week-3 (12-16 December 2016)		
Monday	12 December	
08:40-09:30	Medical English (Gr1 & Gr2)	Sn. Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civisilli
09:40-10:30	Medical English (Gr1 & Gr2)	Sn. Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civisilli
10:40-11:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
11:40-12:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
13:40-14:30	Electrochemical potentials, Nernst potential	Dr. Günseli Ayşe Garip İnhan
14:40-15:30	Membrane potentials and action potential	Dr. Günseli Ayşe Garip İnhan
15:40-16:30	Membrane potentials and action potential	Dr. Günseli Ayşe Garip İnhan
16:40-17:30	Flow of energy in nature, first law of thermodynamics	Dr. Günseli Ayşe Garip İnhan
Tuesday	13 December	
08:40-09:30	Flow of energy in nature, first law of thermodynamics	Dr. Günseli Ayşe Garip İnhan
09:40-10:30	The second law of thermodynamics, entropy, free energy	Dr. Günseli Ayşe Garip İnhan
10:40-11:30	The second law of thermodynamics, entropy, free energy	Dr. Günseli Ayşe Garip İnhan
11:40-12:30	Free energy and thermodynamic properties of water	Dr. Günseli Ayşe Garip İnhan
13:40-14:30	Elective Course	
14:40-15:30	Elective Course	
15:40-16:30	Elective Course	
16:40-17:30	Elective Course	
Wednesday	14 December	
08:40-09:30	Genome of mitochondria	Dr. Şükrü Tüzmen
09:40-10:30	Importance of genome projects in medicine	Dr. Şükrü Tüzmen
10:40-11:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk
11:40-12:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk
13:40-14:30	Transport of substances	Dr. Yaşar İnci Alican
14:40-15:30	Transport of substances	Dr. Yaşar İnci Alican
15:40-16:30	PBL Module 1	
16:40-17:30	PBL Module 1	
Thursday	15 December	
08:40-09:30		
09:40-10:30		
10:40-11:30	Medical English (Gr2)	Sn. Inst. Ayfer Civisilli
11:40-12:30	Medical English (Gr2)	Sn. Inst. Ayfer Civisilli
13:40-14:30	Oxidation of lipids	Dr. Saime Batirel
14:40-15:30	Oxidation of lipids	Dr. Saime Batirel
15:40-16:30	Biosynthesis of lipids	Dr. Saime Batirel
16:40-17:30	Biosynthesis of lipids	Dr. Saime Batirel
Friday	16 December	
08:40-09:30	Biosynthesis of lipids	Dr. Saime Batirel

09:40-10:30	Biosynthesis of lipids	Dr. Saime Batirel
10:40-11:30	What is probability and probability distribution?	Dr. Ilke Akçay
11:40-12:30	Bayes' Theorem	Dr. Ilke Akçay
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Week-4 (19-23 December, 2016)		
Monday	19 December	
08:40-09:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
09:40-10:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
10:40-11:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Betül Karademir
11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Betül Karademir
13:40-14:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Betül Karademir
14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Betül Karademir
15:40-16:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Betül Karademir
16:40-17:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Betül Karademir
Tuesday	20 December	
08:40-09:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Betül Karademir
09:40-10:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Betül Karademir
10:40-11:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Betül Karademir
11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Betül Karademir
13:40-14:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Betül Karademir
14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Betül Karademir
15:40-16:30	Elective Course	
16:40-17:30	Elective Course	
Wednesday	21 December	
08:40-09:30	ICS-1; Questionnaire as a research tool	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoğlu, Dr. Ilke Akçay
09:40-10:30	ICS-1; Comp & SRA: Questionnaire design	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoğlu, Dr. Ilke Akçay
10:40-11:30	ICS-1; Comp & SRA: Questionnaire design	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoğlu, Dr. Ilke Akçay
11:40-12:30	ICS-1; Discussion of possible questions for students' research activity	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoğlu, Dr. Ilke Akçay
13:40-14:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk
14:40-15:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk
15:40-16:30	PBL Module 2	
16:40-17:30	PBL Module 2	

Thursday	22 December	
08:40-09:30		
09:40-10:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
10:40-11:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
11:40-12:30	Intercellular communication	Dr. Alper Yıldırım
13:40-14:30	Physiology LAB: Cell Physiology-Group A	Dr. Alper Yıldırım, Dr. Hızır Kurtel
14:40-15:30	Physiology LAB: Cell Physiology-Group A	Dr. Alper Yıldırım, Dr. Hızır Kurtel
15:40-16:30	Physiology LAB: Cell Physiology-Group B	Dr. Alper Yıldırım, Dr. Hızır Kurtel
16:40-17:30	Physiology LAB: Cell Physiology-Group B	Dr. Alper Yıldırım, Dr. Hızır Kurtel
Friday	23 December	
08:40-09:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
09:40-10:30	Communication in Turkish – I (Gr1 & Gr2)	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez
10:40-11:30	Principles of statistical analysis	Dr. Ilke Akçay
11:40-12:30	Elements of statistical interference	Dr. Ilke Akçay
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Week-5 (26-30 December 2016)		
Monday	26 December	
08:40-09:30	Medical English (Gr1)	Sn.Inst. Ayşe Kozansoy
09:40-10:30	Medical English (Gr1)	Sn.Inst. Ayşe Kozansoy
10:40-11:30		
11:40-12:30		
13:40-14:30	Medical English (Gr1 & Gr2)	Sn.Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civisilli
14:40-15:30	Medical English (Gr1 & Gr2)	Sn.Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civisilli
15:40-16:30		
16:40-17:30		
Tuesday	27 December	
08:40-09:30	Medical English (Gr1)	Sn.Inst. Ayşe Kozansoy
09:40-10:30	Medical English (Gr1)	Sn.Inst. Ayşe Kozansoy
10:40-11:30	Medical English (Gr2)	Sn. Inst. Ayfer Civisilli
11:40-12:30	Medical English (Gr2)	Sn. Inst. Ayfer Civisilli
13:40-14:30	Elective course	
14:40-15:30	Elective course	
15:40-16:30	Elective Course	
16:40-17:30	Elective Course	
Wednesday	28 December	

08:40-09:30		
09:40-10:30		
10:40-11:30	Communication in Turkish – I (Gr1 & Gr2) Atatürk's Principles and History of Modern Turkey	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez Dr. Turgay Bülent Göktürk
11:40-12:30	Communication in Turkish – I (Gr1 & Gr2) Atatürk's Principles and History of Modern Turkey	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez Dr. Turgay Bülent Göktürk
13:40-14:30	Gluconeogenesis and glycogen metabolism-1	Dr. Betül Karademir
14:40-15:30	Gluconeogenesis and glycogen metabolism-1	Dr. Betül Karademir
15:40-16:30	PBL Module 3	
16:40-17:30	PBL Module 3	
Thursday	29 December	
08:40-09:30		
09:40-10:30	Gluconeogenesis and glycogen metabolism-2	Dr. Betül Karademir
10:40-11:30	Gluconeogenesis and glycogen metabolism-2	Dr. Betül Karademir
11:40-12:30	Role of organelles in the metabolism	Dr. Betül Karademir
13:40-14:30	Testing statistical hypothesis	Dr. Ilke Akçay
14:40-15:30	Types of errors in statistical inference	Dr. Ilke Akçay
15:40-16:30		
16:40-17:30		
Friday	30 December	
08:40-09:30	Medical English (Gr1)	Sn.Inst. Ayşe Kozansoy
09:40-10:30	Medical English (Gr1)	Sn.Inst. Ayşe Kozansoy
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Week-6 (02-06 January, 2017)		
Monday	02 January	
08:40-09:30	Medical English (Gr1 & Gr2)	Sn. Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civişilli
09:40-10:30	Medical English (Gr1 & Gr2)	Sn. Inst. Ayşe Kozansoy Sn. Inst. Ayfer Civişilli
10:40-11:30	Biochemistry LAB : Electron transport chain Group A	Dr. Saime Batirel
11:40-12:30	Biochemistry LAB : Electron transport chain Group A	Dr. Saime Batirel
13:40-14:30	Biochemistry LAB : Electron transport chain Group A	Dr. Saime Batirel
14:40-15:30	Biochemistry LAB : Electron transport chain Group B	Dr. Saime Batirel
15:40-16:30	Biochemistry LAB : Electron transport chain Group B	Dr. Saime Batirel
16:40-17:30	Biochemistry LAB : Electron transport chain Group B	Dr. Saime Batirel

Tuesday	03 January	
08:40-09:30	Medical English (Gr1)	Sn. Inst. Ayşe Kozansoy
09:40-10:30	Medical English (Gr1)	Sn. Inst. Ayşe Kozansoy
10:40-11:30	Medical English (Gr2)	Sn. Inst. Ayfer Cavisilli
11:40-12:30	Medical English (Gr2)	Sn. Inst. Ayfer Cavisilli
13:40-14:30	Elective course	
14:40-15:30	Elective course	
15:40-16:30	Elective course	
16:40-17:30	Elective course	
Wednesday	04 January	
08:40-09:30		
09:40-10:30		
10:40-11:30	Communication in Turkish – I (Gr1 & Gr2) Atatürk's Principles and History of Modern Turkey	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez Dr. Turgay Bülent Göktürk
11:40-12:30	Communication in Turkish – I (Gr1 & Gr2) Atatürk's Principles and History of Modern Turkey	Inst. Nevber İstillozlu Inst. Şerife Çelebi Sökmez Dr. Turgay Bülent Göktürk
13:40-14:30	Difference between parametric and nonparametric methods; Introduction to parametric methods	Dr. Ilke Akçay
14:40-15:30	One sample t-test, unpaired t-test and paired t-test	Dr. Ilke Akçay
15:40-16:30	PBL Module 4	
16:40-17:30	PBL Module 4	
Thursday	05 January	
08:40-09:30		
09:40-10:30		
10:40-11:30	Medical English (Gr2)	Sn. Inst. Ayfer Cavisilli
11:40-12:30	Medical English (Gr2)	Sn. Inst. Ayfer Cavisilli
13:40-14:30	ICS-1; Comp&SRA: Presentation of suggested research topics by students	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoğlu, Dr. Ilke Akçay
14:40-15:30	ICS-1; Comp&SRA: Presentation of suggested research topics by students	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoğlu, Dr. Ilke Akçay
15:40-16:30	ICS-1; Comp&SRA: Presentation of suggested research topics by students	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoğlu, Dr. Ilke Akçay
16:40-17:30	ICS-1; Comp&SRA: Presentation of suggested research topics by students	Dr. Sibel Sakarya, Dr. Mevhibe Hocaoğlu, Dr. Ilke Akçay
Friday	06 January	
08:40-09:30		
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16:40-17:30		
Week-7 (09-13 January 2017)		
20th Week		
Monday	09 January	
08:40-09:30		
09:40-10:30	PRACTICAL EXAM	
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Tuesday	10 January	
08:40-09:30		
09:40-10:30	PRACTICAL EXAM	
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		
Wednesday	11 January	
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Thursday	12 January	
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Friday	13 January	
08:40-09:30		
09:40-10:30	Y1C2 THEORETICAL EXAM	
10:40-11:30		

11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16:30		
16:40-17:30		