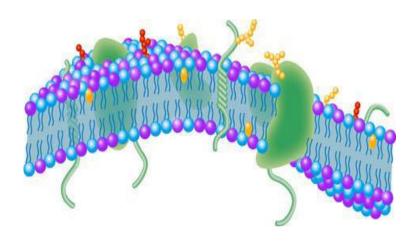


MARMARA UNIVERSITY – EASTERN MEDITERRANEAN UNIVERSITY INTERNATIONAL MEDICAL SCHOOL





CELLULAR METABOLISM AND TRANSPORT COURSE Year 1 Course 2 November 27, 2017 – January 12, 2018

Coordinator of the Course 1.2			
Assist. Prof., Er	rgül MUTLU ALTUNDAĞ		
Coordinator of Multidiciplinary Students' Lab.	Coordinator of Clinical Skill Lab.		
Assist. Prof., Mümtaz GÜRAN	Instructor, Dr. Berfu Çerçi ÖNGÜN		
Cooordinators of Assessment Unite	Coordinator of ICS Res. Lab.		
Assist. Prof., Mümtaz GÜRAN, Assist. Prof., Mevhibe HOCAOĞLU, Assist. Prof., H. Eren SAKALLI	e Assist. Prof., Mevhibe HOCAOĞLU		
Year 1 Coordinators			
Assoc. Prof., Mustafa AKKIPRIK & Assoc. Prof., Dilek AKAKIN			
Module Coordinator	Introduction to Clinician Skills(ICS) Coordinators		
Assoc. Prof., Özlem SARIKAYA	Prof., Sibel SAKARYA, Assoc. Prof., Pemra ÜNALAN		
Coordinator of Multidiciplinary Students' Lab.	Cooordinator of Assessment Unite		
Assoc. Prof., Betül KARADEMIR	Asisst. Prof., Cevdet NACAR		
Vice-Chi	nief Coordinators		
Assessment	Students' Affairs		
Asisst. Prof., Cevdet NACAR	Asisst. Prof., Can ERZIK		
Chief Coordinator	Coordinator of Medical Education Program Evaluat		
Assoc. Prof., Hasan YANANLI	and Development Commission		
	Prof., Berrak Ç. YEĞEN		
Educational Consultant			
Assoc. Prof., N	Assoc. Prof., Mehmet Ali GÜLPINAR		
Dean (EMU)	Dean (MU)		
Prof., Nahide GÖKÇORA	Prof., Hakan GÜNDÜZ		

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,

- 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
Aydın KARAKUZU, Prof., General Surgery
Ayfer CİVİSİLLİ, Instructor, Medical English
Ayşe KOZANSOY, Instructor, Medical English
Berfu Çerçi ÖNGÜN, Instructor, Anatomy
Berrak YEĞEN, Prof., Physiology
Betül KARADEMİR, Assist. Prof., Biochemistry
Bülent SEZGİN, Assist. Prof., Internal Medicine
Cemal GÜRKAN, Instructor, Forensic Sciences
Cevdet NACAR, Assist. Prof., Biophysics
Duygu Gençalp, Inst., Biochemistry
Ergül Mutlu ALTUNDAĞ, Assist. Prof., Biochemistry
Goncagül HAKLAR, Prof., Biochemistry
Günseli Ayşe Garip İNHAN, Assoc. Prof., Biophysics
Halil Eren SAKALLI, Assist. Prof., Pharmacology

Hasan TOPER, Assist. Prof., Patology
Hülya CABADAK, Assoc. Prof., Biophysics
Ilke AKÇAY, Assist. Prof., Biostatistics
Mevhibe HOCAOĞLU, Assist. Prof., Public Health
Mümtaz GÜRAN, Assist. Prof., Microbiology
Nevber İSTİLLOZLU, Instructor, Turkish Language
Nurtane KARAGİL, Instructor, Arts and Crafts
Özgür KASIMAY, Assoc. Prof., Physiology
Saime BATIREL, Assist. Prof., Biochemistry
Şerife Çelebi SÖNMEZ, Instructor, Turkish Language
Şükrü TÜZMEN, Assoc. Prof., Medical Biology

Turgay Bülent GÖKTÜRK, Instructor of 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	26	9	35
Biostatistics	9		9
Physiology	8	2	10
Biophysics	20		20
Subtotal	67	11	78
PBL Module	8		8
ICS-1 Computer Skills in Medicine and Student Research Activities	8		8
Medical English	8		8
Atatürk's Principles and History of Modern Turkey	8		8
Communication in Turkish-I (for foreign students)	16		16
Electives	8		8
TOTAL	123	11	134

	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR		
	Week-1 (27 November - 01 December, 2017)			
Monday	27 November			
08:40-09:30	STUDY TIME			
09:40-10:30	STUDY TIME			
10:40-11:30	Medical English (Gr 1 & Gr 2)	Inst. Ayfer Civisilli Inst. Ayşe Kozansoy		
11:40-12:30	Medical English (Gr 1 & Gr 2)	Inst. Ayfer Civisilli Inst. Ayşe Kozansoy		
13:40-14:30	Elective Course – I MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine Turkish as a Second Language (for foreign students)	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp Inst. Emine Özerinç Inst. Şerife Çelebi Sökmez		
14:40-15:30	Elective Course – I MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – Laboratory Techniques in Medicine Turkish as a Second Language (for foreign students)	Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Duygu Gençalp Inst. Emine Özerinç Inst. Şerife Çelebi Sökmez		
15:40-16-30	Turkish as a Second Language (for foreign students)	Inst. Emine Özerinç Inst. Şerife Çelebi Sökmez		
16:40-17:30	Turkish as a Second Language (for foreign students)	Inst. Emine Özerinç Inst. Şerife Çelebi Sökmez		

Tuesday	28 November	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
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	Homeostasis	Dr. Berrak Yeğen
14:40-15:30	Bioelectric potentials	Dr. Berrak Yeğen
15:40-16-30	Bioelectric potentials	Dr. Berrak Yeğen
16:40-17:30	Writing PBL reports : Plagiarism and referencing	Dr. Mevhibe Hocaoğlu
Wednesday	29 November	
08:40-09:30	ICS Research Training: Groups 1-5	
09:40-10:30	ICS Research Training: Groups 6-9	Dr. Mevhibe Hocaoğlu
10:40-11:30	ICS Research Training: Groups 10-12	Dr. İlke Akçay
11:40-12:30	ICS Research Training: Groups 13-15	
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	STUDY TIME	7. 2.2.2.3
Thursday	30 November	
08:40-09:30	ICS-1: First Aid Written Exam	Main Instructor
09:40-10:30	ICS-1: First Aid Practical Exam	Dr. Bülent Sezgin
10:40-11:30	ICS-1: First Aid Practical Exam	Small group Instructor
11:40-12:30	ICS-1: First Aid Practical Exam	Dr. Berfu Çerçi Öngün
		Dr. Halil Eren Sakallı
13:40-14:30	ICS-1: First Aid Practical Exam	Dr. Aydın Karakuzu
14:40-15:30	ICS-1: First Aid Practical Exam	Dr. Umut Altunç
15:40-16-30	ICS-1: First Aid Practical Exam	Dr. Hasan Toper
16:40-17:30	ICS-1: First Aid Practical Exam	
Friday	01 December	
08:40-09:30	01 December	
09:40-10:30		
10:40-11:30		
11:40-12:30	RELIGIOUS HOLIDAY	
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
	Week-2 (4-8 December, 2017)	
Monday	04 December	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30		Inst. Ayfer Civisilli
	Medical English (Gr 1 & Gr 2)	Inst. Ayşe Kozansoy
	+	
11:40-12:30	Medical English (Gr 1 & Gr 2)	Inst. Ayfer Civisilli

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13:40-14:30	Elective Course – I	
	MDCN181 – Theoretical and Applied Forensic Sciences	Dr. Cemal Gürkan
	MDCN182 – Arts and Crafts for Medical Students	Inst. Nurtane Karagil
	MDCN184 – Laboratory Techniques in Medicine	Inst. Duygu Gençalp Inst. Emine Özerinç
	Turkish as a Second Language (for foreign students)	-
14:40-15:30	Elective Course – I	Inst. Şerife Çelebi Sökmez
14:40-15:30	MDCN181 – Theoretical and Applied Forensic Sciences	Dr. Cemal Gürkan
	MDCN181 – Theoretical and Applied Foreistic Sciences MDCN182 – Arts and Crafts for Medical Students	Inst. Nurtane Karagil
	MDCN182 — Arts and Crafts for Medical Students MDCN184 — Laboratory Techniques in Medicine	Inst. Duygu Gençalp
	·	Inst. Emine Özerinç
	Turkish as a Second Language (for foreign students)	Inst. Şerife Çelebi Sökmez
15:40-16-30		Inst. Emine Özerinç
	Turkish as a Second Language (for foreign students)	Inst. Şerife Çelebi Sökmez
16:40-17:30	Toolish as a Cossa dilamana (for forcina students)	Inst. Emine Özerinç
	Turkish as a Second Language (for foreign students)	Inst. Şerife Çelebi Sökmez
Tuesday	05 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	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	STUDY TIME	
16:40-17:30	STUDY TIME	
Wednesday	06 December	
08:40-09:30	ICS Research Training: Groups 13-15	
09:40-10:30	ICS Research Training: Groups 10-12	Dr. Mevhibe Hocaoğlu
10:40-11:30	ICS Research Training: Groups 6-9	Dr. İlke Akçay
11:40-12:30	ICS Research Training: Groups 1-5	
13:40-14:30	Introduction to metabolism and metabolic control	Dr. Betül Karademir
14:40-15:30	Introduction to metabolism and metabolic control	Dr. Betül Karademir
15:40-16-30	Overview of glycolysis	Dr. Betül Karademir
16:40-17:30	STUDY TIME	
Thursday	07 December	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	Reactions of glycolysis	Dr. Betül Karademir
14:40-15:30	Reactions of glycolysis	Dr. Betül Karademir
15:40-16-30	Regulation of glycolysis	Dr. Betül Karademir
16:40-17:30	Regulation of glycolysis	Dr. Betül Karademir
Friday	08 December	
00 40		
08:40-09:30	STUDY TIME	
08:40-09:30 09:40-10:30 10:40-11:30	STUDY TIME STUDY TIME Introduction to statistical analysis	Dr. İlke Akçay

13:40-14:30 Physical characteristics of membrane structure and function Dr. Cevdet Nacar 13:40-15:30 Membrane proteins Dr. Cevdet Nacar Dr. Cevdet Nacar 15:40-16-30 Introduction to bioelectricity- Dr. Cevdet Nacar Dr. Ce	11:40-12:30	Campling distribution and actimation	Dr. ilko Aksay
14:40-15:30 Membrane proteins Dr. Cevdet Nacar	11:40-12:30	Sampling, distribution and estimation	Dr. İlke Akçay
14:40-15:30 Membrane proteins Dr. Cevdet Nacar	12:40 14:20	Dhysical characteristics of mambrane structure and function	Dr. Coydot Nossa
15:40-16-30			
Monday		·	
Monday 11 December 08:40-99:30 STUDY TIME		,	Dr. Cevdet Nacar
Monday 11 December	16:40-17:50	STODY TIME	
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Inst. Hüseyin Bıyıkoğlu Inst. Yönter Meray			Dr. Ergül Mutlu Altundağ
Inst. Yönter Meray			Inst. Duygu Gençalp
13:40-14:30 Coupling of biological reactions with high energy metabolite Dr. Hülya Cabadak			Inst. Yönter Meray
13:40-14:30 Coupling of biological reactions with high energy metabolite Dr. Hülya Cabadak			
	13:40-14:30	Coupling of biological reactions with high energy metabolite	Dr. Hülya Cabadak

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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	STUDY TIME	
Thursday	14 December	
08:40-09:30	Signal transduction	Dr. Özgür Kasımay Çakır
09:40-10:30	Cell to cell adhesions	Dr. Özgür Kasımay Çakır
10:40-11:30	Physiology LAB: Cell Physiology-Group A	Dr. Özgür Kasımay Çakır
	7 · · · · · · · · · · · · · · · · · · ·	Dr. Alper Yıldırım
11:40-12:30	Physiology LAB: Cell Physiology-Group A	Dr. Özgür Kasımay Çakır
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13:40-14:30	Intercellular communication	Dr. Alper Yıldırım
14:40-15:30	Physiology LAB: Cell Physiology-Group B	Dr. Özgür Kasımay Çakır
		Dr. Alper Yıldırım
15:40-16-30	Physiology LAB: Cell Physiology-Group B	Dr. Özgür Kasımay Çakır
		Dr. Alper Yıldırım
16:40-17:30	STUDY TIME	
Friday	15 December	
08:40-09:30	ICS-1-SRA: Comp&SRA: Creating a research question,	Dr. İlke Akçay,
	discussion about	Dr. Mevhibe Hocaoğlu
09:40-10:30	ICS-1-SRA: Comp&SRA: How to do effective presentations?	Dr. İlke Akçay,
05.40 10.50	165 1 Sha. compasha. Now to do effective presentations:	Dr. Mevhibe Hocaoğlu
10:40-11:30	ICS-1-SRA: Comp&SRA: Effective use of powerpoint during	Dr. İlke Akçay,
10:40-11:50		_ ·
44 40 40 00	presentation	Dr. Mevhibe Hocaoğlu
11:40-12:30	ICS-1-SRA: Comp&SRA: Powerpoint practicum	Dr. İlke Akçay,
		Dr. Mevhibe Hocaoğlu
13:40-14:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar
14:40-15:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar
15:40-16-30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar
16:40-17:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar
	Week-4 (18- 22 December, 2017)	
Monday	18 December	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	Inst. Ayfer Civisilli
10:40-11:30	Medical English (Gr 1 & Gr 2)	
	·	Inst. Ayşe Kozansoy
11:40-12:30	Medical English (Gr 1 & Gr 2)	Inst. Ayfer Civisilli
		Inst. Ayşe Kozansoy
	Elective Course – I	
	MDCN181 – Theoretical and Applied Forensic Sciences	Dr. Cemal Gürkan
13:40-14:30	MDCN182 – Arts and Crafts for Medical Students	Inst. Nurtane Karagil
13.70-14.30	MDCN184 – Laboratory Techniques in Medicine	Inst. Duygu Gençalp
	Turkish as a Second Language (for foreign students)	Inst. Emine Özerinç
	Turkish as a Second Language (for foreign students)	Inst. Şerife Çelebi Sökmez
	Elective Course – I	
	MDCN181 – Theoretical and Applied Forensic Sciences	Dr. Cemal Gürkan
	MDCN182 – Arts and Crafts for Medical Students	Inst. Nurtane Karagil
14:40-15:30	MDCN184 – Laboratory Techniques in Medicine	Inst. Duygu Gençalp
	·	Inst. Emine Özerinç
	Turkish as a Second Language (for foreign students)	Inst. Şerife Çelebi Sökmez
		mst. Jenne Çelebi SUKINEZ

15:40-16-30	Turkish as a Second Language (for foreign students)	Inst. Emine Özerinç
		Inst. Şerife Çelebi Sökmez
16:40-17:30	Turkish as a Second Language (for foreign students)	Inst. Emine Özerinç Inst. Şerife Çelebi Sökmez
Tuesday	19 December	ilist. Şerile Çelebi Sokillez
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
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
11.40-12.30	Atatark's Finiciples and History of Wodern Farkey	Dr. rurgay Bulent Gokturk
13:40-14:30	Electron transport chain	Dr. Goncagül Haklar
14:40-15:30	Electron transport chain	Dr. Goncagül Haklar
15:40-16-30	Oxidative Phosphorylation	Dr. Goncagül Haklar
16:40-17:30	Oxidative Phosphorylation	Dr. Goncagül Haklar
10.40-17.50	Oxidative Phospholylation	Dr. Goricagui Hakiai
Mada ada.	20 D	
Wednesday	20 December	Dr. illes Alessee
08:40-09:30	What is probability and probability distribution?	Dr. İlke Akçay
09:40-10:30	PBL Module -2	Dr. İlke Akçay Dr. Mümtaz Güran
10:40-11:30	PBL Module -2 PBL Module -2	
11:40-12:30	PBL Module -2	Dr. İlke Akçay Dr. Ergül Mutlu Altundağ
		Inst. Duygu Gençalp
		Inst. Hüseyin Bıyıkoğlu
		Inst. Yönter Meray
		mst. Tonter Werdy
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
20110 27100	The wateries with the care, making of the meaning your message and the care of	Dir Cariseii Ayac Carip IIIIaii
Thursday	21 December	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	Flow of energy in nature, first law of thermodynamics	Dr. Günseli Ayşe Garip İnhan
11:40-12:30	The second law of thermodynamics, entropy, free energy	Dr. Günseli Ayşe Garip İnhan
	1 7 177	73
13:40-14:30	The second law of thermodynamics, entropy, free energy	Dr. Günseli Ayşe Garip İnhan
14:40-15:30	Free energy and thermodynamic properties of water	Dr. Günseli Ayşe Garip İnhan
15:40-16-30	STUDY TIME	/3
16:40-17:30	STUDY TIME	
Friday	22 December	
08:40-09:30		
09:40-10:30		
10:40-11:30	Y2C2 THEORETICAL EXAM	
11:40-12:30		
13:40-14:30	Oxidation of lipids	Dr. Saime Batırel
14:40-15:30	Oxidation of lipids	Dr. Saime Batırel
15:40-16-30	Biosynthesis of lipids	Dr. Saime Batirel
16:40-17:30	STUDY TIME	
	Week-5 (25- 29 December, 2017)	
Monday	25 December	
08:40-09:30		
09:40-10:30		
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10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30 16:40-17:30	CHRISTMAS DAY	
13:40-14:30 14:40-15:30 15:40-16-30	CHDISTMAS DAY	
14:40-15:30 15:40-16-30	CHDISTMAS DAV	
15:40-16-30	CHNSTMASDAT	
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20.10 27.00		
Tuesday	26 December	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	PBL Module -3	Dr. Mümtaz Güran
11:40-12:30	PBL Module -3	Dr. İlke Akçay Dr. Ergül Mutlu Altundağ
		Inst. Duygu Gençalp
		Inst. Hüseyin Bıyıkoğlu
		Inst. Yönter Meray
		mod reflect Merdy
13:40-14:30	Biosynthesis of lipids	Dr. Saime Batırel
14:40-15:30	Biosynthesis of lipids	Dr. Saime Batırel
15:40-16-30	Biosynthesis of lipids	Dr. Saime Batırel
16:40-17:30	STUDY TIME	
Wednesday	27 December	
08:40-09:30	STUDY TIME	
09:40-10:30	Principles of statistical analysis	Dr. İlke Akçay
10:40-11:30	Elements of statistical interference	Dr. İlke Akçay
11:40-12:30	Gluconeogenesis and glycogen metabolism-1	Dr. Betül Karademir
13:40-14:30	Gluconeogenesis and glycogen metabolism-1	Dr. Betül Karademir
14:40-15:30	Gluconeogenesis and glycogen metabolism-2	Dr. Betül Karademir
15:40-16-30	Gluconeogenesis and glycogen metabolism-2	Dr. Betül Karademir
16:40-17:30	Role of organelles in the metabolism	Dr. Betül Karademir
Thursday	28 December	
Thursday 08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Betül Karademir
11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ
11.40 12.30	biodicinistry EAD. Anderosic drycolysis droup A	Inst. Duygu Gençalp
13:40-14:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	
14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Betül Karademir
15:40-16-30 16:40 17:20	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ Inst. Duygu Gençalp
16:40-17:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	ilist. Duygu Geriçaip
Friday	29 December	
08:40-09:30	Y3C2 THEORETICAL EXAM	
09:40-10:30		

10.40 11.20	Bioch ansistem LAD. Amountain Charaktein Crown D	Dr. Batül Karadamir
10:40-11:30 11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis-Group B Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Betül Karademir Dr. Ergül Mutlu Altundağ Inst. Duygu Gençalp
13:40-14:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	
14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Betül Karademir
15:40-16-30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ
16:40-17:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Inst. Duygu Gençalp
	Week 6 (1- 5 January, 2018)	
Monday	01 January	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30	HOLIDAY (NEW YEAR)	
15:40-16-30	HOLIDAY (NEW YEAR)	
16:40-17:30		
Tuesday	02 January	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	PBL Module -4	Dr. Mümtaz Güran
11:40-12:30	PBL Module -4	Dr. İlke Akçay Dr. Ergül Mutlu Altundağ Inst. Duygu Gençalp Inst. Hüseyin Bıyıkoğlu Inst. Yönter Meray
13:40-14:30	Testing statistical hypothesis	Dr. İlke Akçay
14:40-15:30	Types of errors in statistical inference	Dr. İlke Akçay
15:40-16-30	STUDY TIME	DI. IIKE AKÇAY
16:40-17:30	STUDY TIME	
2		
Wednesday	03 January	+
08:40-09:30	STUDY TIME	
09:40-10:30	Biochemistry LAB: Electron transport chain Group A	Dr. Saime Batırel
10:40-11:30	Biochemistry LAB: Electron transport chain Group A	Dr. Ergül Mutlu Altundağ
11:40-12:30	Biochemistry LAB: Electron transport chain Group A	Inst. Duygu Gençalp
13:40-14:30	Biochemistry LAB: Electron transport chain Group B	Dr. Saime Batırel
14:40-15:30	Biochemistry LAB: Electron transport chain Group B	Dr. Ergül Mutlu Altundağ
15:40-16-30	Biochemistry LAB : Electron transport chain Group B	Inst. Duygu Gençalp
16:40-17:30	STUDY TIME	
Thursday	04 January	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	ICS-1-SRA: Questionnaire as a research tool	Dr. İlke Akçay,

		Dr. Maybiba Hagaağlı
11:40-12:30	ICC 1 CDA: Comp 9 CDA: Quastiannaire design	Dr. Mevhibe Hocaoğlu Dr. İlke Akçay,
11:40-12:30	ICS-1-SRA: Comp & SRA: Questionnaire design	= · -
		Dr. Mevhibe Hocaoğlu
13:40-14:30	ICC 1 CDA: Comm 9 CDA: Occation mains design	Dr. illes Alesse
13:40-14:30	ICS-1-SRA: Comp & SRA: Questionnaire design	Dr. İlke Akçay, Dr. Mevhibe Hocaoğlu
14:40-15:30	ICS-1-SRA: Review of the students' research material and	Dr. İlke Akçay,
14.40-15.50	methods	Dr. Mevhibe Hocaoğlu
15:40-16-30	Difference between parametric and nonparametric	Dr. İlke Akçay
13.40-10-30	methods; Introduction to parametric methods	DI. like Akçay
16:40-17:30	One sample t-test, unpaired t-test and paired t-test	Dr. İlke Akçay
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Friday	05 January	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	STUDY TIME	
11:40-12:30	STUDY TIME	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16-30	STUDY TIME	
16:40-17:30	STUDY TIME	
	Week 7 (8- 12 January, 2018)	
Monday	08 January	
08:40-09:30	PRACTICAL EXAM	
09:40-10:30	_	
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	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		
Wednesday	10 January	
08:40-09:30		
09:40-10:30		
10:40-11:30		
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13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30	11 January	
Thursday	11 January	
08:40-09:30 09:40-10:30		
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11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
Friday	12 January	
08:40-09:30		
09:40-10:30	Y1C2 THEORETICAL EXAM (starts at 9.30)	
10:40-11:30		
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		