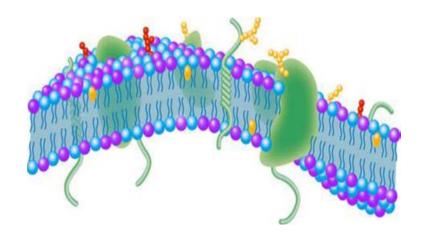


MARMARA UNIVERSITY – EASTERN MEDITERRANEAN UNIVERSITY INTERNATIONAL MEDICAL SCHOOL





CELLULAR METABOLISM AND TRANSPORT COURSE Year 1 Course 2 December 02, 2019 – January 16, 2020

Coordinator of the Course 1.2 Prof., Mustafa AKKİPRİK & Assoc. Prof., Dilek AKAKIN & Assist. Prof., Ergül MUTLU ALTUNDAĞ		
Module Coordinator Prof., Özlem SARIKAYA & Inst. Dr. Berfu ÇERÇİ ÖNGÜN Coordinator of Clinical Skill Lab. Assoc. Prof., Pemra ÜNALAN & Assist. Prof. Bülent SEZGIN Coordinator of Multidiciplinary Students' Lab. Assoc. Prof., Betül KARADEMİR & Assist. Prof., Mümtaz	Introduction to Clinician Skills (ICS) Coordinators Assoc. Prof., Pemra ÜNALAN & Assist. Prof. Bülent SEZGIN Coordinator of ICS Res. Lab. Prof., Sibel SAKARYA & Assist. Prof., İlke AKÇAY Coordinator of Assessment Unite Assist. Prof., Cevdet NACAR & Assist. Prof., Can ERZİK &	
GÜRAN Assist. Prof., H. Eren SAKALLI Vice-Chief Coordinators		
Assessment Assist. Prof., Cevdet NACAR & Assist. Prof., Mümtaz GÜRAN	Students' Affairs Assist. Prof., Can ERZİK & Assist. Prof., İlke AKÇAY & Assist. Prof., Mümtaz GÜRAN	
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) Assoc. Prof., Emre HAMURTEKİN	Dean (MU) 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

Ayşe KOZANSOY, Instructor, Medical English

Berrak YEĞEN, Prof., Physiology

Bülent SEZGİN, Assist. Prof., Internal Medicine

Cemal GÜRKAN, Instructor, Forensic Sciences

Cevdet NACAR, Assist. Prof., Biophysics

Didem RIFKI, Instructor, E.N.T.

Duygu GENÇALP, Instructor, Biochemistry

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

Ilke AKÇAY, Assist. Prof., Biostatistics

Nazan DOĞRUER, Instructor, Medical English

Nurtane KARAGİL, Instructor, Arts and Crafts

Özge Cumaoğulları EKER, Instructor of Molecular Biology

and Genetics

Özgür KASIMAY, Assoc. Prof., Physiology

Saime BATIREL, Assist. Prof., Biochemistry

Şükrü TÜZMEN, Prof., Medical Biology

Turgay Bülent GÖKTÜRK, Instructor of Atatürk's Principles and

History of Modern Turkey

Yasemin KURTOĞLU, Instructor, Aerial Fitness and High

Intensity Interval Training

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	2		2
Biochemistry	26	9	35
Biostatistics	10		10
Physiology	8	2	10
Biophysics	20		20
Subtotal	66	11	77
PBL Module	8		8
ICS-1 Computer Skills in Medicine and Student Research Activities	12		12
Medical English	12		12
Atatürk's Principles and History of Modern Turkey	8		8
TFMS101-Turkish for Medical Students-1 (for foreign students)	24		24
TFMS101-Turkish for Medical Students-1 (for foreign students)-Interactive Session	12		12
Electives	12	_	12
TOTAL	154	11	165

	THEORETICAL AND PRACTICAL SESSIONS	LECTURER/TUTOR
	Week-1 (02 December - 06 December, 2019)	
Monday	02 December	
08:40-09:30		
09:40-10:30	TFMS101-Turkish for Medical Students-1 (for foreign	Inst. Emine Özerinç
10:40-11:30	students)	
11:40-12:30		
12:40:14:20		Dr. Nazan Doğruer
13:40-14:30	Medical English (Gr 1 & 2)	Inst. Ayşe Kozansoy
14:40-15:30		
15:40-16-30	Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences	Dr. Cemal Gürkan
16:40-17:30	MDCN182 – Arts and Crafts for Medical Students MDCN184 – Aerial Fitness and High Intensity Interval Training	Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu
Tuesday	03 December	
08:40-09:30	TFMS101 – Turkish for Medical Students-I (Foreign Students)- Interactive Session	Ins. Emine Özerinç
09:40-10:30	TFMS101 – Turkish for Medical Students-I (Foreign Students)- Interactive Session	Ins. Emine Özerinç
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	STUDY TIME	
Wednesday	04 December	
08:40-09:30	ICS-1 Research: Contents in the Introduction part of a research study	
09:40-10:30	ICS -1 Research: Topic & Title	Dr. İlke Akçay
10:40-11:30	ICS -1 Research: General and Specific objectives	Dr. Özge Cumaoğulları Eker
11:40-12:30	ICS -1 Research: Writing a research question	
13:40-14:30	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16-30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	05 December	
08:40-09:30	First Aid Written Exam	
09:40-10:30	First Aid Practical Exam	Dr. Nevin Yılmaz
10:40-11:30	First Aid Practical Exam	Dr. Nilüfer Güzoğlu
11:40-12:30	First Aid Practical Exam	Dr. Amber Eker
		Dr. Bülent Sezgin
13:40-14:30	First Aid Practical Exam	Dr. Didem Rıfkı
14:40-15:30	First Aid Practical Exam	
15:40-16-30	First Aid Practical Exam	
16:40-17:30	STUDY TIME	

Friday	06 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
11:40-12:30	Physiology LAB: Cell Physiology-Group A	Dr. Alper Yıldırım
22110 22100	This coap a continuous coap to coap to	Diringer manni
13:40-14:30	Intercellular communication	Dr. Alper Yıldırım
14:40-15:30	Physiology LAB: Cell Physiology-Group B	Dr. Özgür Kasımay Çakır
15:40-16-30	Physiology LAB: Cell Physiology-Group B	Dr. Alper Yıldırım
16:40-17:30	STUDY TIME	
	Week-2 (09-13 December, 2019)	
Monday	09 December	
08:40-09:30		
09:40-10:30	TFMS101-Turkish for Medical Students-1 (for foreign	Inst. Emine Özerinç
10:40-11:30	students)	-
11:40-12:30		
13:40-14:30		Dr. Nazan Doğruer
14:40 15:20	Medical English (Gr 1 & 2)	Inst. Ayşe Kozansoy
14:40-15:30		
15:40-16-30	Elective Course – I (for Turkish students)	Dr. Cemal Gürkan
	MDCN181 – Theoretical and Applied Forensic Sciences	Inst. Nurtane Karagil
16:40-17:30	MDCN182 – Arts and Crafts for Medical Students	Inst. Yasemin Kurtoğlu
	MDCN184 – MDCN184 – Aerial Fitness and High Intensity	
	Interval Training	
Tuesday	10 December	
Tuesday 08:40-09:30	10 December STUDY TIME	
09:40-10:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk
03.40-10.30	Atatulk's Frinciples and history of Modern Turkey	I DI. TUIRAV DUIRIIL GUNLUIN
	Atatürk's Principles and History of Modern Turkey	1
10:40-11:30	Atatürk's Principles and History of Modern Turkey	Dr. Turgay Bülent Göktürk
	Atatürk's Principles and History of Modern Turkey Overview of glycolysis	1
10:40-11:30 11:40-12:30	Overview of glycolysis	Dr. Turgay Bülent Göktürk Dr. Saime Batırel
10:40-11:30 11:40-12:30 13:40-14:30	Overview of glycolysis Reactions of glycolysis	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel
10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel
10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel
10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel
10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30 16:40-17:30	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel
10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel
10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30 16:40-17:30	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Dr. Saime Batırel
10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30 16:40-17:30	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Dr. Saime Batırel Dr. Saime Batırel
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	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel
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	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk
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	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. Duygu Gençalp
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	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. Duygu Gençalp Dr. Özge Eker
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	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December PBL Module -1	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Maryam Batırel Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari
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	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December PBL Module -1	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk
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	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December PBL Module -1	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. İlke Akçay
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 08:40-09:30	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December PBL Module -1 PBL Module -1	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk
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 08:40-09:30 10:40-10:30	Overview of glycolysis Reactions of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December PBL Module -1 Introduction to statistical analysis	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. İlke Akçay
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 08:40-09:30 10:40-10:30 11:40-12:30 13:40-14:30	Overview of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December PBL Module -1 Introduction to statistical analysis Sampling, distribution and estimation Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. İlke Akçay Dr. İlke Akçay
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 08:40-09:30 10:40-10:30 10:40-11:30 11:40-12:30	Overview of glycolysis Reactions of glycolysis Regulation of glycolysis Regulation of glycolysis Regulation of glycolysis 11 December PBL Module -1 Introduction to statistical analysis Sampling, distribution and estimation	Dr. Turgay Bülent Göktürk Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Saime Batırel Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk Dr. İlke Akçay Dr. İlke Akçay

16:40-17:30	Tricarboxylic acid cycle and hexose monophosphate shunt	Dr. Goncagül Haklar
		Dr. Goricagui Hakiai
Thursday 08:40-09:30	12 December	
09:40-10:30	Y2C2 THEORETICAL EXAM	
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	STUDY TIME	
Friday	13 December	
Friday 08:40-09:30	STUDY TIME	
09:40-10:30	Introduction to bioelectricity-I	Dr. Cevdet Nacar
10:40-11:30	Introduction to bioelectricity-I	Dr. Cevdet Nacar
11:40-12:30	Introduction to bioelectricity-II	Dr. Cevdet Nacar
11.40-12.30	introduction to bioelectricity-ii	Dr. Cevdet Nacai
13:40-14:30	ICS-1-Research:Contents in Material and Methods part of a research study	De İlle Alessi
14:40-15:30	ICS-1- Research: Questionnaire as a data collection tool	Dr. İlke Akçay
15:40-16-30	ICS-1- Research: Questionnaire design	Dr. Özge Cumaoğulları Eker
16:40-17:30	ICS-1- Research: Questionnaire design	
	Week-3 (16- 20 December, 2019)	
Monday	16 December	
08:40-09:30		
09:40-10:30	TFMS101-Turkish for Medical Students-1 (for foreign	Inst. Emine Özerinç
09:40-10:30 10:40-11:30	TFMS101-Turkish for Medical Students-1 (for foreign students)	Inst. Emine Özerinç
09:40-10:30		Inst. Emine Özerinç
09:40-10:30 10:40-11:30		Inst. Emine Özerinç Dr. Nazan Doğruer
09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30		
09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30	Medical English (Gr 1 & 2)	Dr. Nazan Doğruer Inst. Ayşe Kozansoy
09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30	students)	Dr. Nazan Doğruer
09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan
09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil
09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30 Tuesday	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil
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 08:40-09:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil
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 08:40-09:30 09:40-10:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME STUDY TIME	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu
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 08:40-09:30 09:40-10:30 10:40-11:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME STUDY TIME Atatürk's Principles and History of Modern Turkey	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu Dr. Turgay Bülent Göktürk
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 08:40-09:30 09:40-10:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME STUDY TIME	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu
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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME STUDY TIME Atatürk's Principles and History of Modern Turkey Atatürk's Principles and History of Modern Turkey	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu Dr. Turgay Bülent Göktürk Dr. Turgay Bülent Göktürk
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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME STUDY TIME Atatürk's Principles and History of Modern Turkey Atatürk's Principles and History of Modern Turkey Applications of recombinant DNA technology in medicine	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu Dr. Turgay Bülent Göktürk Dr. Turgay Bülent Göktürk Dr. Şükrü Tüzmen
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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME STUDY TIME Atatürk's Principles and History of Modern Turkey Atatürk's Principles and History of Modern Turkey	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu Dr. Turgay Bülent Göktürk Dr. Turgay Bülent Göktürk Dr. Şükrü Tüzmen Dr. Şükrü Tüzmen
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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME STUDY TIME Atatürk's Principles and History of Modern Turkey Atatürk's Principles and History of Modern Turkey Applications of recombinant DNA technology in medicine	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu Dr. Turgay Bülent Göktürk Dr. Turgay Bülent Göktürk Dr. Şükrü Tüzmen Dr. Şükrü Tüzmen Dr. Duygu Gençalp
09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30 Tuesday 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME STUDY TIME Atatürk's Principles and History of Modern Turkey Atatürk's Principles and History of Modern Turkey Applications of recombinant DNA technology in medicine	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu Dr. Turgay Bülent Göktürk Dr. Turgay Bülent Göktürk Dr. Şükrü Tüzmen Dr. Şükrü Tüzmen Dr. Duygu Gençalp Dr. Özge Eker
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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME STUDY TIME Atatürk's Principles and History of Modern Turkey Atatürk's Principles and History of Modern Turkey Applications of recombinant DNA technology in medicine Applications of recombinant DNA technology in medicine	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu Dr. Turgay Bülent Göktürk Dr. Turgay Bülent Göktürk Dr. Şükrü Tüzmen Dr. Şükrü Tüzmen Dr. Duygu Gençalp Dr. Özge Eker Dr. Maryam Norouzbahari
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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30	students) Medical English (Gr 1 & 2) Elective Course – I (for Turkish students) MDCN181 – Theoretical and Applied Forensic Sciences MDCN182 – Arts and Crafts for Medical Students MDCN184 – MDCN184 – Aerial Fitness and High Intensity Interval Training 17 December STUDY TIME STUDY TIME Atatürk's Principles and History of Modern Turkey Atatürk's Principles and History of Modern Turkey Applications of recombinant DNA technology in medicine Applications of recombinant DNA technology in medicine	Dr. Nazan Doğruer Inst. Ayşe Kozansoy Dr. Cemal Gürkan Inst. Nurtane Karagil Inst. Yasemin Kurtoğlu Dr. Turgay Bülent Göktürk Dr. Turgay Bülent Göktürk Dr. Şükrü Tüzmen Dr. Şükrü Tüzmen Dr. Duygu Gençalp Dr. Özge Eker

		Dr. Özge Eker Dr. Maryam Norouzbahari Inst. Gizem Şanlıtürk
Wednesday	18 December	
08:40-09:30	TFMS101 – Turkish for Medical Students-I (Foreign Students)- Interactive Session	Inst. Emine Özerinç
09:40-10:30	TFMS101 – Turkish for Medical Students-I (Foreign Students)- Interactive Session	Inst. Emine Özerinç
10:40-11:30	What is probability and probability distribution?	Dr. İlke Akçay
11:40-12:30	Bayes' Theorem	Dr. İlke Akçay
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
Thursday	19 December	
08:40-09:30		<u> </u>
09:40-10:30		
10:40-11:30	Y3C2 THEORETICAL EXA	AM
11:40-12:30		
12:40 14:20	Dhuai ad main sindan Diffusion and facilitated transport	Da Höhra Cabadalı
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	
Friday	20 December	
08:40-09:30	ICS-1-Research: Sampling	
09:40-10:30	ICS-1- Research: Sampling	Dr. İlke Akçay
10:40-11:30	ICS-1- Research: How to do effective presentations?	Dr. Özge Cumaoğulları Eker
11:40-12:30	ICS-1- Research: How to do effective presentations?	
13:40-14:30	TFMS101 – Turkish for Medical Students-I (Foreign Students)- Interactive Session	Inst. Emine Özerinç
14:40-15:30	TFMS101 – Turkish for Medical Students-I (Foreign Students)- Interactive Session	Inst. Emine Özerinç
15:40-16-30	TFMS101 – Turkish for Medical Students-I (Foreign Students)- Interactive Session	Inst. Emine Özerinç
16:40-17:30	TFMS101 – Turkish for Medical Students-I (Foreign Students)- Interactive Session	Inst. Emine Özerinç
	Week-4 (23- 27 December, 2019)	
Monday	23 December	
08:40-09:30 09:40-10:30	TFMS101-Turkish for Medical Students-1 (for foreign	Inst. Emine Özerinç
10:40-11:30 11:40-12:30	students)	
13:40-14:30 14:40-15:30	Medical English (Gr 1 & 2)	Dr. Nazan Doğruer Inst. Ayşe Kozansoy
	1	/32/

	Elective Course – I (for Turkish students)	Dr. Cemal Gürkan
15:40-16-30	MDCN181 – Theoretical and Applied Forensic Sciences	Inst. Nurtane Karagil
	MDCN182 – Arts and Crafts for Medical Students	Inst. Yasemin Kurtoğlu
16:40-17:30	MDCN184 – MDCN184 – Aerial Fitness and High Intensity	mot ruseniii na tegra
	Interval Training	
Tuesday	24 December	
08:40-09:30	STUDY TIME	
09:40-10:30	STUDY TIME	
10:40-11:30	Testing statistical hypothesis	Dr. İlke Akçay
11:40-12:30	Types of errors in statistical inference	Dr. İlke Akçay
13:40-14:30	Principles of statistical analysis	Dr. İlke Akçay
14:40-15:30	Elements of statistical interference	Dr. İlke Akçay
15.40 16 20	TFMS101 – Turkish for Medical Students-I (Foreign	Inst Ensine Özerine
15:40-16-30	Students)- Interactive Session	Inst. Emine Özerinç
16:40 17:20	TFMS101 – Turkish for Medical Students-I (Foreign	Inst Emino Özorina
16:40-17:30	Students)- Interactive Session	Inst. Emine Özerinç
Wednesday	25 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	STUDY TIME	
14:40-15:30	STUDY TIME	
15:40-16-30	STUDY TIME	
16:40-17:30	STUDY TIME	
Thursday	26 December	
08:40-09:30	Introduction to metabolism and metabolic control	Dr. Ergül Mutlu Altundağ
09:40-10:30	Introduction to metabolism and metabolic control	Dr. Ergül Mutlu Altundağ
		Dr. Duygu Gençalp
10:40-11:30	PBL Module -3	Dr. Özge Eker
10:40-11:50	PBL Wiodule -3	Dr. Maryam Norouzbahari
		Inst. Gizem Şanlıtürk
		Dr. Duygu Gençalp
		Dr. Özge Eker
11:40-12:30	PBL Module -3	Dr. Maryam Norouzbahari
		Inst. Gizem Şanlıtürk
		mst. Gizem şamıtark
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
21-10 = 11-10	2. 2	
Friday	27 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
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	cancentifye camp initian

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
11110 15150	TFMS101 – Turkish for Medical Students-I (Foreign	
15:40-16-30	Students)- Interactive Session	Inst. Emine Özerinç
	TFMS101 – Turkish for Medical Students-I (Foreign	
16:40-17:30	Students)- Interactive Session	Inst. Emine Özerinç
	Stadents) interdetive session	
	Week-5 (30 December, 2019- 03 January, 2020)	
Mondov	30 December	1
Monday	30 December	
08:40-09:30		
09:40-10:30	TFMS101-Turkish for Medical Students-1 (for foreign	Inst. Emine Özerinç
10:40-11:30	students)	
11:40-12:30		
13:40-14:30		Dr. Nazan Doğruer
14:40-15:30	Medical English (Gr 1 & 2)	Inst. Ayşe Kozansoy
4. 40 : 5.55		
15:40-16-30	Elective Course – I (for Turkish students)	Dr. Cemal Gürkan
	MDCN181 – Theoretical and Applied Forensic Sciences	Inst. Nurtane Karagil
16:40-17:30	MDCN182 – Arts and Crafts for Medical Students	Inst. Yasemin Kurtoğlu
	MDCN184 – MDCN184 – Aerial Fitness and High Intensity	
	Interval Training	
Tuesday	31 December	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30	_	
	_	
	HOLIDAY	
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
Wednesday	01 January	
08:40-09:30		
09:40-10:30		
10:40-11:30		
11:40-12:30		
	NEW YEAR HOLIDAY	
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		
20.70 17.30		
Thursday	02 January	
08:40-09:30	02 January STUDY TIME	
09:40-10:30	STUDY TIME STUDY TIME	
09:40-10:30	STOUT THIVE	Dr. Divigue Con and a
		Dr. Duygu Gençalp
10:40-11:30	PBL Module -4	Dr. Özge Eker
		Dr. Maryam Norouzbahari
		Inst. Gizem Şanlıtürk

		Dr. Duwgu Goncaln
		Dr. Duygu Gençalp
11:40-12:30	PBL Module -4	Dr. Özge Eker
		Dr. Maryam Norouzbahari
		Inst. Gizem Şanlıtürk
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 Batırel
16:40-17:30	STUDY TIME	
Friday	03 January	
08:40-09:30	Biosynthesis of lipids	Dr. Saime Batırel
09:40-10:30	Biosynthesis of lipids	Dr. Saime Batırel
10:40-11:30	Biosynthesis of lipids	Dr. Saime Batırel
11:40-12:30	Gluconeogenesis and glycogen metabolism-1	Dr. Saime Batırel
12:40 14:20	Coupling of highering transitions with high annual to the	Dr. Hühra Cabadalı
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	STUDY TIME	
	Week 6 (06- 10 January, 2020)	
Monday	06 January	
08:40-09:30		
09:40-10:30	TFMS101-Turkish for Medical Students-1 (for foreign	
10:40-11:30	students)	Inst. Emine Özerinç
11:40-12:30		
13:40-14:30		Dr. Nazan Doğruer
44.40.45.20	Medical English (Gr 1 & 2)	Inst. Ayşe Kozansoy
14:40-15:30		
15:40-16-30	Elective Course – I (for Turkish students)	Dr. Cemal Gürkan
	MDCN181 – Theoretical and Applied Forensic Sciences	Inst. Nurtane Karagil
16:40-17:30	MDCN182 – Arts and Crafts for Medical Students	Inst. Yasemin Kurtoğlu
	MDCN184 – MDCN184 – Aerial Fitness and High Intensity	
	Interval Training	
Tuesday	07 January	
08:40-09:30	Difference between parametric and nonparametric	Dr. İlke Akçay
20 40 10 00	methods; Introduction to parametric methods	
09:40-10:30	One sample t-test, unpaired t-test and paired t-test	Dr. İlke Akçay
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
12:40:44:22	Character and share a state of the state of	Du Cairra Baturri
13:40-14:30	Gluconeogenesis and glycogen metabolism-1	Dr. Saime Batırel
14:40-15:30	Gluconeogenesis and glycogen metabolism-2	Dr. Saime Batırel
15:40-16-30	Gluconeogenesis and glycogen metabolism-2	Dr. Saime Batırel
16:40-17:30	STUDY TIME	
Modnasda	09 January	
Wednesday	08 January	Dr. Vasar İnci Alican
08:40-09:30 09:40-10:30	Transport of substances	Dr. Yaşar İnci Alican
	Transport of substances	Dr. Yaşar İnci Alican
10:40-11:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ

11 12 12 22		
11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Duygu Gençalp
12.40 14.20	Disabaggistms I AD. Annoughis Charakteris Course A	
13:40-14:30 14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	
15:40-16-30	Biochemistry LAB: Anaerobic Glycolysis-Group A Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Ergül Mutlu Altundağ
16:40-17:30	Biochemistry LAB: Anaerobic Glycolysis-Group A	Dr. Duygu Gençalp
10.40-17.30	Biochemistry LAB. Anaerobic Grycorysis-Group A	
Thursday	09 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	
Friday	10 January	
08:40-09:30	Role of organelles in the metabolism	Dr. Ergül Mutlu Altundağ
09:40-10:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ
10:40-11:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Duygu Gençalp
11:40-12:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	
13:40-14:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Ergül Mutlu Altundağ
14:40-15:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	Dr. Duygu Gençalp
15:40-16:30	Biochemistry LAB: Anaerobic Glycolysis-Group B	
16:40-17:30	STUDY TIME	
	Week 7 /12 17 January 2020)	
Monday	Week 7 (13- 17 January, 2020)	
Monday 08:40-09:30	13 January	
08:40-09:30	13 January STUDY TIME	Dr. Frgül Mutlu Altundağ
08:40-09:30 09:40-10:30	13 January STUDY TIME Biochemistry LAB: Electron transport chain Group A	Dr. Ergül Mutlu Altundağ Dr. Duygu Gencalp
08:40-09:30	13 January STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A	Dr. Ergül Mutlu Altundağ Dr. Duygu Gençalp
08:40-09:30 09:40-10:30 10:40-11:30	13 January STUDY TIME Biochemistry LAB: Electron transport chain Group A	
08:40-09:30 09:40-10:30 10:40-11:30	13 January STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A	
08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30	13 January STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A	Dr. Duygu Gençalp
08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30	13 January STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30	13 January STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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	13 January STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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 08:40-09:30	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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 08:40-09:30 09:40-10:30	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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 08:40-09:30 09:40-10:30 10:40-11:30	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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 08:40-09:30 09:40-10:30	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME 14 January	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME 14 January	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME 14 January	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME 14 January	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ
08:40-09:30 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 08:40-09:30 09:40-10:30 10:40-11:30 11:40-12:30 13:40-14:30 14:40-15:30 15:40-16-30	STUDY TIME Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group A Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B Biochemistry LAB: Electron transport chain Group B STUDY TIME 14 January	Dr. Duygu Gençalp Dr. Ergül Mutlu Altundağ

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	
Thursday	16 January	
08:40-09:30		
09:40-10:30		
10:40-11:30	Y1C2 THEORETICAL EXAM	
11:40-12:30		
13:40-14:30		
14:40-15:30		
15:40-16-30		
16:40-17:30		