

GAZİ UNIVERSITY MEDICAL FACULTY
PHASE I – INTRODUCTION TO MEDICINE COMMITTEE
(16 SEPTEMBER 2024 – 25 OCTOBER 2024)

COURSES	THEORETICAL	LABORATORY	PRACTICAL	TOTAL
Medical Biology	39	3x4	-	42
Medical Biochemistry	31	3x4	-	34
Biophysics	17	-	-	17
Public Health	9	-	8	17
Medical History and Ethics	2	-	-	2
Panel	2	-	-	2
TOTAL	100	6	8	114
ELECTIVE COURSE	10	-	-	10
INTRODUCTION TO CLINICAL PRACTICE				
EVIDENCE-BASED MEDICINE (EBM)	2	-	-	2
COMMUNICATION SKILLS	-	-	6	6
TOTAL	112	6	14	132
FREE STUDY TIME	78			

Total 30 workdays.

Free study time: Individual studying courses intended for learning in accordance with the present committee.

OBLIGATORY COURSES

Turkish Language	10
Atatürk's Principles and History of His Revolutions	10
English	10

English (face-to-face): Every week on Monday between 13.30 – 15.20.

Turkish Language: Every week on Wednesday between 16.30 – 17.20.

Ataturk's Principles and History of His Revolutions: Every week on Thursday between 18.00 – 18.50

Dean	Prof. Dr. Alper CEYLAN
Vice Dean	Doç. Dr. Nazmi Mutlu KARAKAŞ
Vice Dean	Doç. Dr. Asiye UĞRAŞ DİKMEN
Head Coordinator	Prof. Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof. Dr. Mehmet Ali ERGÜN
Assistant Head Coordinator	Prof. Dr. Akif Muhtar ÖZTÜRK
Phase I Coordinator	Dr. Öğr. Üyesi Meltem SEVGİLİ
Assistant Phase I Coordinator	Dr. Öğr. Üyesi Duygu Deniz USTA SALIMI
Assistant Phase I Coordinator	Öğr. Gör. Dr. Burak KAYABAŞI
Assistant Phase I Coordinator	Öğr. Gör. Dr. Sidre ERGANİŞ

MEMBERS OF COMMITTEE

MEDICAL BIOLOGY	MEDICAL BIOCHEMISTRY	PUBLIC HEALTH	COMMUNICATION SKILLS
Dr. Ece KONAÇ	Dr. Mustafa KAVUTÇU	Dr. F. Nur AKSAKAL	Dr. Nesrin DEMİRSOY
Dr. H. İlke ÖNEN	Dr. Orhan CANBOLAT	Dr. Hakan TÜZÜN	Prof. Dr. Elvan İŞERİ
Dr. Atiye Seda YAR SAĞLAM	Dr. Cengiz KARAKAYA	Dr. Cansu ÖZBAŞ	Dr. Canan ULUOĞLU
Dr. Nuray VAROL	Dr. Kübranur ÜNAL	Dr. Sultan Pınar ÇETİNTEPE	Dr. İrem BUDAKOĞLU
Dr. Duygu Deniz Usta SALIMI	Dr. Niyazi SAMET YILMAZ		Dr. M. Muhittin YALÇIN
Dr. Pelin TELKOPARAN AKILLILAR			Dr. Selçuk ASLAN
			Dr. Tuğba TUNÇ
BIOPHYSICS	MEDICAL HISTORY AND ETHICS	FORENSIC MEDICINE	Dr. Aslı KURUOĞLU
			Dr. Ayfer KELEŞ
Dr. Elçin ÖZGÜR BÜYÜKATALAY	Dr. Nesrin ÇOBANOĞLU	Dr. Taner AKAR	Dr. Özlem COŞKUN

COMMUNICATION SKILLS COORDINATOR	Prof. Dr. Nesrin DEMİRSOY
EVIDENCE BASED MEDICINE COORDINATOR	Prof. Dr. Mehmet Ali ERGÜN
ELECTIVE COURSE COORDINATOR	Doç. Dr. Ergin DİLEKÖZ

INTRODUCTION TO MEDICINE COMMITTEE

Aim: At the end of the Introduction to Medicine committee, students will be able to explain organic chemistry, differences in cellular organization of living organisms, molecular evolution, biological membranes, cell organelles, structure and function of biomolecules in metabolic pathways, basic genetic concepts, heredity types, application of controlled electric current in living organisms, importance of primary public health application fields and understand the methodology of medicine.

LEARNING OBJECTIVES:

Knowledge:

1. To be able to define atom and its structure, chemical bonds
2. To be able to classify the structural properties of organic compounds
3. To be able to define the concepts of bond and energy in living organisms
4. To be able to explain the structure and function of the main molecules such as protein, lipid, and carbohydrate
5. To be able to explain the hypothesis of the evolution of cells, genes, and genomes
6. To be able to explain basic genetic concepts and types of inheritance
7. To be able to define the molecular structures that play a role in the structure and function of eukaryotic cells, the relationship between these structures and controls
8. To be able to explain the molecular mechanisms and controls in the process of mitosis and meiosis
9. To be able to define the concepts of electric charge, force, energy, and magnetic field and their use in biological systems
10. To be able to explain the methods of medicine
11. To be able to explain the concept of health and illness and the public health perspective on health problems
12. To be able to list the characteristics of primary, secondary and tertiary health services
13. Explain the role of environmental factors in health-related events
14. To be able to explain the concept of primary health services
15. To explain the concept of health prevention and promotion

Skills:

1. To be able to show parts and use of the light microscope and the living cells
2. To be able to monitor peripheral cell culture and chromosome staining and banding
3. To be able to make karyotype analysis by classifying human chromosomes

Attitude:

1. To be able to behave according to the values of the medical profession culture and the atmosphere of the medical faculty
2. To understand the importance of keeping a healthy record
3. To understand the importance of evidence-based medical knowledge in the medical profession
4. To understand the importance of the use of basic communication skills

Week 1	16.09.2024 MONDAY	17.09.2024 TUESDAY	18.09.2024 WEDNESDAY	19.09.2024 THURSDAY	20.09.2024 FRIDAY
08:30 – 09:20	Free Study Time	Medical Organic Chemistry Dr. C. Karakaya	Free Study Time	Biomolecules Dr. D. D. Usta Salimi	Work and Health Concept Dr. S. P. Çetintepe
09:30 – 10:20	What is Medicine and Medical Research Methodology? Dr. N. Çobanoğlu	Medical Organic Chemistry Dr. C. Karakaya	Medical Organic Chemistry Dr. C. Karakaya	Biomolecules Dr. D. D. Usta Salimi	Environmental Disease Concept and Types of Environmental Exposure Dr. F.N. Aksakal
10:30 – 11:20	What is Medicine and Medical Research Methodology? Dr. N. Çobanoğlu	Evidence based medicine Dr. M. A. Ergün	Medical Organic Chemistry Dr. C. Karakaya	Primary Health Care Vision Dr. H. Tüzün	The structure and function of mitochondria Dr. A.S. Yar Sağlam
11:30 – 12:20	Public Health Vision and Health- Disease Concept Dr. H. Tüzün	Evidence based medicine Dr. M. A. Ergün	Health Services Dr. H. Tüzün	Health Prevention and Promotion Dr. C. Özbaş	The structure and function of mitochondria Dr. A.S. Yar Sağlam
13:30 – 14:20	Introduction of Biochemistry Dr. O. Canbolat	Medical Organic Chemistry Dr. C. Karakaya	Medical Organic Chemistry Dr. C. Karakaya	DNA Role in Heredity: What Is the Evidence that the Gene Is DNA? Dr. P. Telkoparan Akıllılar	Interdisciplinary Sciences and Biophysics Dr. E. Büyükatalay
14:30 – 15:20	Introduction of Biochemistry Dr. O. Canbolat	Medical Organic Chemistry Dr. C. Karakaya	Medical Organic Chemistry Dr. C. Karakaya	DNA Structure and functional features Dr. D. D. Usta Salimi	Interdisciplinary Sciences and Biophysics Dr. E. Büyükatalay
15:30 – 16:20	Medical Organic Chemistry Dr. C. Karakaya	Free Study Time	The functions of nucleotides and nucleic acids: DNA and RNA Dr. E. Konaç	Free Study Time	Free Study Time
16:30 – 17:20	Free Study Time	Free Study Time	The functions of nucleotides and nucleic acids: DNA and RNA Dr. E. Konaç	Free Study Time	Free Study Time

Week 2	23.09.2024 MONDAY	24.09.2024 TUESDAY	25.09.2024 WEDNESDAY	26.09.2024 THURSDAY	27.09.2024 FRIDAY
08:30 – 09:20	The structure and function of biological membranes Dr. N. Varol	Nucleus and packing of chromatin Dr. A.S. Yar Sağlam	E current, DC & AC properties Dr. E. Büyükatalay	Free Study Time	Public Health Field Practice 1: Primary Care
09:30 – 10:20	The structure and function of biological membranes Dr. N. Varol	Nucleus and packing of chromatin Dr. A.S. Yar Sağlam	Nucleolus and its diseases Dr. A.S. Yar Sağlam	Functional portions and protein traffic in cells Dr. H.İ. Önen	
10:30 – 11:20	Electric Charge, Electric Force, Electric Field, Electric Potential and Potential Energy, Capacity Dr. E. Büyükatalay	Health Indicators and Health Level in Turkey Dr. H. Tüzün	Bioenergetics Dr. M. Kavutçu	Cellular tubulin and filaments systems Dr. P. Telkoparan Akıllılar	
11:30 – 12:20	Electric Charge, Electric Force, Electric Field, Electric Potential and Potential Energy, Capacity Dr. E. Büyükatalay	Health Indicators and Health Level in Turkey Dr. H. Tüzün	Bioenergetics Dr. M. Kavutçu	Health System in Turkey Dr. H. Tüzün	
13:30 – 14:20	ENGLISH	Electric Charge, Electric Force, Electric Field, Electric Potential and Potential Energy, Capacity Dr. E. Büyükatalay	Functional portions and protein traffic in cells Dr. H.İ. Önen	Controlled electric current applications in biological systems Dr. E. Büyükatalay	ER stress diseases, lysosome, Golgi apparatus and peroxisome diseases Dr. P. Telkoparan Akıllılar
14:30 – 15:20	ENGLISH	Electric Charge, Electric Force, Electric Field, Electric Potential and Potential Energy, Capacity Dr. E. Büyükatalay	Functional portions and protein traffic in cells Dr. H.İ. Önen	Controlled electric current applications in biological systems Dr. E. Büyükatalay	ER stress diseases, lysosome, Golgi apparatus and peroxisome diseases Dr. P. Telkoparan Akıllılar
15:30 – 16:20	ELECTIVE COURSES	Free Study Time	Free Study Time	Free Study Time	Free Study Time
16:30 – 17:20	ELECTIVE COURSES	Free Study Time	Turkish Language	Free Study Time	Free Study Time
				18:00-18:50 Ataturk's Principles and History of His Revolutions	

Week 3	30.09.2024 MONDAY	01.10.2024 TUESDAY	02.10.2024 WEDNESDAY	03.10.2024 THURSDAY	04.10.2024 FRIDAY
08:30 – 09:20	Medical Organic Chemistry Dr. C. Karakaya	Free Study Time	Phase 1 Communication Skills	Depolarization of Heart Muscle Cells, Electrical Axis and Dipole Moment Vector of The Heart, Einthoven Triangle and Determination of the Potential Difference in Heart's Dipole Area Dr. E. Büyükcatalay	M. Biology LAB: Light Microscope, Living and Non-living Cells (Group A)
09:30 – 10:20	Medical Organic Chemistry Dr. C. Karakaya	Medical Organic Chemistry Dr. C. Karakaya		Depolarization of Heart Muscle Cells, Electrical Axis and Dipole Moment Vector of The Heart, Einthoven Triangle and Determination of the Potential Difference in Heart's Dipole Area Dr. E. Büyükcatalay	M. Biochemistry LAB: Introduction of laboratory materials and simple solution preparation methods (Group B)
10:30 – 11:20	Mutations and mutagens Dr. A.S. Yar Sağlam	Medical Organic Chemistry Dr. C. Karakaya	DNA Repair Mechanisms Dr. H.İ. Önen	Peptides and proteins Dr. M. Kavutçu	M. Biology LAB: Light Microscope, Living and Non-living Cells (Group B)
11:30 – 12:20	Mutations and mutagens Dr. A.S. Yar Sağlam	Mutations and mutagens Dr. A.S. Yar Sağlam	DNA Repair Mechanisms Dr. H.İ. Önen	Peptides and proteins Dr. M. Kavutçu	M. Biochemistry LAB: Introduction of laboratory materials and simple solution preparation methods (Group A)
13:30 – 14:20	ENGLISH	DNA replication (prokaryotic and eukaryotic) Dr. H.İ. Önen	Amino acid structure, classification reaction and transports Dr. M. Kavutçu	Free Study Time	Depolarization of Heart Muscle Cells, Electrical Axis and Dipole Moment Vector of The Heart, Einthoven Triangle and Determination of the Potential Difference in Heart's Dipole Area Dr. E. Büyükcatalay
14:30 – 15:20	ENGLISH	DNA replication (prokaryotic and eukaryotic) Dr. H.İ. Önen	Amino acid structure, classification reaction and transports Dr. M. Kavutçu	Free Study Time	Depolarization of Heart Muscle Cells, Electrical Axis and Dipole Moment Vector of The Heart, Einthoven Triangle and Determination of the Potential Difference in Heart's Dipole Area Dr. E. Büyükcatalay
15:30 – 16:20	ELECTIVE COURSES	Magnetic field Dr. E. Büyükcatalay	Free Study Time	Free Study Time	Free Study Time
16:30 – 17:20	ELECTIVE COURSES	Free Study Time	Turkish Language	Free Study Time	Free Study Time
				18:00-18:50 Ataturk's Principles and History of His Revolutions	

Week 4	07.10.2024 MONDAY	08.10.2024 TUESDAY	09.10.2024 WEDNESDAY	10.10.2024 THURSDAY	11.10.2024 FRIDAY
08:30 – 09:20	Free Study Time	Free Study Time	Phase 1 Communication Skills	M. Biology LAB: Whole blood genomic DNA isolation (Group A)	Free Study Time
09:30 – 10:20	Electrophoresis Dr. E. Büyükatalay	Control of cell cycle Dr. E. Konaç		M. Biochemistry LAB: Spectrophotometric measurement principles (Group B)	Factors affecting enzyme activity Dr. K. Ünal
10:30 – 11:20	Molecular mechanisms underlying the mitosis-meiosis Dr. P. Telkoparan Akıllılar	Control of cell cycle Dr. E. Konaç	Classifications of enzymes Dr. N.S. Yılmaz	M. Biology LAB: Whole blood genomic DNA isolation (Group B)	Enzyme kinetics Dr. N.S. Yılmaz
11:30 – 12:20	Molecular mechanisms underlying the mitosis-meiosis Dr. P. Telkoparan Akıllılar	Crossing over, recombination and gene linkage Dr. P. Telkoparan Akıllılar	Classifications of enzymes Dr. N.S. Yılmaz	M. Biochemistry LAB: Spectrophotometric measurement principles (Group A)	Enzyme kinetics Dr. N.S. Yılmaz
13:30 – 14:20	ENGLISH	Biochemistry of nucleic acids Dr. O. Canbolat	Free Study Time	The molecular mechanisms of fertilization Dr. E. Konaç	Active and Passive transducers, usage of transducers in medicine Dr. E. Büyükatalay
14:30 – 15:20	ENGLISH	Biochemistry of nucleic acids Dr. O. Canbolat	Free Study Time	Difference between Spermatogenesis and Oogenesis Dr. E. Konaç	Laser in Medicine Dr. E. Büyükatalay
15:30 – 16:20	ELECTIVE COURSES	Free Study Time	Free Study Time	Free Study Time	Communication Skills Movie Screening (Turkish and English groups)
16:30 – 17:20	ELECTIVE COURSES	Free Study Time	Turkish Language	Free Study Time	
				18:00-18:50 Ataturk's Principles and History of His Revolutions	

Week 5	14.10.2024 MONDAY	15.10.2024 TUESDAY	16.10.2024 WEDNESDAY	17.10.2024 THURSDAY	18.10.2024 FRIDAY
08:30 – 09:20	Free Study Time	Public Health Field Practice 2. Secondary - Tertiary Care	Phase 1 Communication Skills	Free Study Time	Free Study Time
09:30 – 10:20	Regulation of enzyme activity Dr. K. Ünal			Free Study Time	Free Study Time
10:30 – 11:20	Regulation of enzyme activity Dr. K. Ünal		Molecular biological methods in diagnosis Dr. D. D. Usta Salimi	Genetic Code and Protein Synthesis Dr. H.İ. Önen	Free Study Time
11:30 – 12:20	Regulation of enzyme activity Dr. K. Ünal		Molecular biological methods in diagnosis Dr. D. D. Usta Salimi	Genetic Code and Protein Synthesis Dr. H.İ. Önen	Free Study Time
13:30 – 14:20	ENGLISH	RNA Synthesis and RNA processing Dr. H.İ. Önen	Free Study Time	Free Study Time	Current Practices in Forensic Medicine Dr. A. S. Yar Sağlam, Dr. T. Akar, Dr. N. Varol
14:30 – 15:20	ENGLISH	RNA Synthesis and RNA processing Dr. H.İ. Önen	Free Study Time	Free Study Time	Current Practices in Forensic Medicine Dr. A. S. Yar Sağlam, Dr. T. Akar, Dr. N. Varol
15:30 – 16:20	ELECTIVE COURSES	Free Study Time	Free Study Time	Free Study Time	Free Study Time
16:30 – 17:20	ELECTIVE COURSES	Free Study Time	Turkish Language	Free Study Time	Free Study Time
				18:00-18:50 Ataturk's Principles and History of His Revolutions	

Week 6	21.10.2024 MONDAY	22.10.2024 TUESDAY	23.10.2024 WEDNESDAY	24.10.2024 THURSDAY	25.10.2024 FRIDAY
08:30 – 09:20	M. Biology LAB: Polymerase Chain Reaction (PCR) (Group A)	Free Study Time	Free Study Time	Free Study Time	INTRODUCTION TO MEDICINE COMMITTEE EXAM
09:30 – 10:20	M. Biochemistry LAB: Factors affecting enzyme kinetics (Group B)	Free Study Time	Free Study Time	Free Study Time	
10:30 – 11:20	M. Biology LAB: Polymerase Chain Reaction (PCR) (Group B)	Free Study Time	Free Study Time	Free Study Time	
11:30 – 12:20	M. Biochemistry LAB: Factors affecting enzyme kinetics (Group A)	Free Study Time	Free Study Time	Free Study Time	
13:30 – 14:20	ENGLISH	Free Study Time	Free Study Time	Free Study Time	
14:30 – 15:20	ENGLISH	Free Study Time	Free Study Time	Free Study Time	
15:30 – 16:20	ELECTIVE COURSES	Free Study Time	Free Study Time	Free Study Time	
16:30 – 17:20	ELECTIVE COURSES	Free Study Time	Turkish Language	Free Study Time	
				18:00-18:50 Ataturk's Principles and History of His Revolutions	