

**GAZİ UNIVERSITY FACULTY OF MEDICINE**

**2021-2022 EDUCATIONAL YEAR**

**YEAR I**

**FROM MOLECULE TO CELL COMMITTEE (NOVEMBER 18 – DECEMBER 28, 2021)**

<b>COURSES</b>	<b>THEORETICAL</b>	<b>PRACTICAL</b>	<b>TOTAL</b>
Medical Biology	30	2X6	32
Medical Biochemistry	23	3X1	26
Medical History and Ethics	18	-	18
Biostatistics	12	2x1	14
Biophysics	7	--	7
Medical Genetics	1	-	1
<b>TOTAL</b>	<b>91</b>	<b>7</b>	<b>98</b>
<b>INTRODUCTION TO CLINICAL PRACTICE</b>			
CRITICAL THINKING AND ART	4	8x1	12
PROBLEM BASED LEARNING	-	6	6
<b>ELECTIVE COURSE</b>	<b>6</b>	<b>-</b>	<b>6</b>
<b>TOTAL</b>	<b>101</b>	<b>21</b>	<b>122</b>

**OBLIGATORY COURSES**

Turkish Language	6
Ataturk's Principles and History of His Revolutions	6
English	6

Dean	Prof. Dr. Mustafa Necmi İLHAN
Vice Dean	Assoc. Prof. Dr. İlyas OKUR
Vice Dean	Assoc. Prof. Dr. Özlem GÜZEL TUNÇCAN
Head Coordinator	Prof. Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof. Dr. Mehmet Ali ERGÜN
Assistant Head Coordinator	Prof. Dr. Akif Muhtar ÖZTÜRK
<b>Phase I Coordinator</b>	<b>Assoc. Prof. Dr. Atiye Seda YAR SAĞLAM</b>
<b>Assistant Phase I Coordinator</b>	<b>Asst. Prof. Dr. Meltem SEVGİLİ</b>
<b>Assistant Phase I Coordinator</b>	<b>Asst. Prof. Dr. Kerem ATALAR</b>
<b>Assistant Phase I Coordinator</b>	<b>Teach. Assist. Dr. Duygu DAYANIR</b>
<b>Assistant Phase I Coordinator</b>	<b>Teach. Assist. Dr. Melek YAMAN</b>

### MEMBERS OF COMMITTEE

MEDICAL BIOLOGY	MEDICAL BIOCHEMISTRY	BIOPHYSICS	CRITICAL THINKING AND ART
Dr. Ece KONAÇ	Dr. Mustafa KAVUTÇU	Dr. Arın TOMRUK	Dr. F. Sedef TUNAOĞLU
Dr. H. İlke ÖNEN	Dr. Neslihan BUKAN		Dr. Nevzat YÜKSEL
Dr. Atiye Seda YAR SAĞLAM	Dr. Cengiz KARAKAYA		Dr. Meltem YALINAY
	Dr. Kübranur ÜNAL		Dr. Fikret AKATA
	Dr. Aylin SEPİCİ DİNÇEL		Dr. Serdar KULA
MEDICAL GENETICS	MEDICAL HISTORY AND ETHICS	PUBLIC HEALTH	Dr. Hayrunnisa BOLAY BELEN
Dr. Mehmet Ali ERGÜN	Dr. Nesrin ÇOBANOĞLU	Dr. Mustafa Necmi İLHAN	Dr. Elvan İŞERİ
	Dr. Namık ÇENÇEN	Dr. Seçil ÖZKAN	Dr. Özlem COŞKUN
		Dr. F. Nur AKSAKAL	Dr. İrem EKMEKÇİ ERTEK

		<b>Dr. Asiye UĞRAŞ DİKMEN</b>	
		<b>Dr. Hakan TÜZÜN</b>	
		<b>Dr. Volkan MEDENİ</b>	
		<b>Dr. Cansu ÖZBAŞ</b>	

<b>CRITICAL THINKING AND ART COORDINATOR</b>	<b>Prof. Dr. F. Sedef TUNAOĞLU</b>
<b>PROBLEM BASED LEARNING COORDINATOR</b>	<b>Assoc. Prof. Dr. Özlem COŞKUN</b>
<b>ELECTIVE COURSE COORDINATOR</b>	<b>Assoc. Prof. Dr. Ergin DİLEKÖZ</b>

## Learning Objectives and Goals& Achievements

NR of LEARNING OBJECTIVE	
	<b>INFORMATION</b>
ÖH-100-2-1	To be able to classify and explain the structural and biochemical properties of carbohydrates, lipids and vitamins, evaluate their functional properties and clinical importance
ÖH-100-2-2	To be able to define PH concept and buffer systems in the body
ÖH-100-2-3	Be able to explain the general properties of RNA and protein synthesis in prokaryotic and eukaryotes, the molecules involved and the mechanisms by which they are controlled
ÖH-100-2-4	To explain the properties of the genetic code, to define the molecules and their properties in gene expression control, to differentiate in cells, to gain function, to explain the molecules and controls that control aging and death events.
ÖH-100-2-5	To be able to explain the molecular effects and properties of genes involved in early embryo development
ÖH-100-2-6	Explain the causes of DNA mutation and the properties of molecules involved in DNA repair mechanisms
ÖH-100-2-7	Molecular formation and development steps of cancer and the classification of the gene groups involved in this process and the ability to count the properties
ÖH-100-2-8	To be able to explain the application areas of recombinant DNA technology and biotechnology in medicine
ÖH-100-2-9	Explaining the definition of epidemiology and its usage areas, counting the types and types of research planning, explaining biostatistics concepts
ÖH-100-2-10	To be able to count the importance tests and to be able to say the properties and usage conditions of parametric and non-parametric materiality tests
ÖH-100-2-11	To be able to say electromagnetic (EM) field concept and its sources
ÖH-100-2-12	To be able to explain the permeability of tissues to electric and magnetic fields
ÖH-100-2-13	To be able to explain the biological effects of low frequency (ELF) E and B areas with examples
ÖH-100-2-14	To be able to list the main sources and biological effects of radio wave (RF) / microwave (MW) radiation
ÖH-100-2-15	To explain mobile phone frequencies and SAR concept, To evaluate the effect of mobile phone on medical devices
ÖH-100-2-16	Evaluate national and international standards for protection against EM radiation and apply practical suggestions to protect it in daily life
ÖH-100-2-17	To be able to define the difference between general public exposure and occupational exposure standards
ÖH-100-2-18	Revolutionary changes in the history of medicine leading to the development of the profession of physicians, physicians who leave a trace, in the light of the fundamental events that create a transformation, to explain the evolution of medicine with an evolutionary approach, to explain the concept of ethics
	<b><u>SKILLS</u></b>
ÖH-100-2-19	To be able to choose the materiality test that can be used according to the characteristics of the data and to

	evaluate the suitability of the frequently used statistical tests in scientific publications
<b>ÖH-100-2-20</b>	DNA isolation and conduction of DNA in agarose gel
<b>ÖH-100-2-21</b>	To be able to perform quantitative test result with spectrophotometer

	15.11.2021 MONDAY	16.11.2021 TUESDAY	17.11.2021 WEDNESDAY	18.11.2021 THURSDAY	19.11.2021 FRIDAY
08:30-09:15			<b>1st COMMITTEE THEORETICAL EXAM</b>	Epidemiology and its application topics Dr. H. Tüzün Dr. C. Özbaş	Electromagnetic (EM) Pollution; Electromagnetic Spectrum , natural and man made sources of EM Pollution Dr. A. Tomruk
09:30-10:15				Planning an epidemiological research Dr. H. Tüzün Dr. C. Özbaş	Electromagnetic (EM) Pollution; Electromagnetic Spectrum , natural and man made sources of EM Pollution Dr. A. Tomruk
10:30-11:15				Study population, sample and sampling methods Dr. H. Tüzün Dr. C. Özbaş	FREE STUDY TIME
11:30-12:15				RNA Synthesis and RNA processing Dr. H.İ. Önen	FREE STUDY TIME
13:30-14:15				RNA Synthesis and RNA processing Dr. H.İ. Önen	Physician's identity, Deontology and concepts of medical ethics Dr. N. Çobanoğlu Dr. N. Çençen
14:30-15:15				Questions Analysis of 1 <sup>st</sup> Committee Exam and Feedback	Physician's identity, Deontology and concepts of medical ethics Dr. N. Çobanoğlu Dr. N. Çençen
15:30-16:15				FREE STUDY TIME	FREE STUDY TIME
16:30-17:15			<b>5i Course</b> ATATURK'S PRINCIPLES AND HISTORY OF	FREE STUDY TIME	

				<b>TURKISH REVOLUTION</b>  (Online)	
<b>17:30- 18:15</b>				<b>ENGLISH</b>  (Online)	FREE STUDY TIME

	22.11.2021 MONDAY	23.11.2021 TUESDAY	24.11.2021 WEDNESDAY	25.11.2021 THURSDAY	26.11.2021 FRIDAY
08:30-09:15	Physician-Patient Relationships: Evolution, Ethical Principles and Other Basic Aspects Dr. N. Çobanoğlu Dr. N. Çençen	Epigenetic Mechanisms Dr. H.İ. Önen	Glycoproteins and derivatives Dr. K. Ünal	Prehippocratic Medicine (Instinctive Medicine, Mystical Medicine, civilizations of Antiquity) Dr. N. Çobanoğlu Dr. N. Çençen	FREE STUDY TIME
09:30-10:15	Physician-Patient Relationships: Evolution, Ethical Principles and Other Basic Aspects Dr. N. Çobanoğlu Dr. N. Çençen	Epigenetic Mechanisms Dr. H.İ. Önen	Glycoproteins and derivatives Dr. K. Ünal	Hippocratic Medicine Dr. N. Çobanoğlu Dr. N. Çençen	İngilizce dersi ara sınavı
10:30-11:15	Classification of carbohydrate and monosaccharides Dr. M. Kavutçu	Control Mechanisms of gene Expression Dr. A.S. Yar Sağlam	Atatürk İlkeleri ve İnkılap Tarihi dersi ara sınavı	Fatty acids and triglycerides Dr. C. Karakaya	İngilizce dersi ara sınavı
11:30-12:15	Disaccharides Dr. M. Kavutçu	Control Mechanisms of gene Expression Dr. A.S. Yar Sağlam	Atatürk İlkeleri ve İnkılap Tarihi dersi ara sınavı	Fatty acids and triglycerides Dr. C. Karakaya	FREE STUDY TIME
13:30-14:15	Polysaccharides and other carbohydrates Dr. M. Kavutçu	Control Mechanisms of gene Expression Dr. A.S. Yar Sağlam	Methods in History of Medicine and Medical Evolution Dr. N. Çobanoğlu Dr. N. Çençen	Türk dili dersi ara sınavı	APPLIED COURSES BIOCHEM. Analysis of reducing properties of carbohydrates (Online)
14:30-15:15	FREE STUDY TIME	Critical Thinking-1 Critical and Creative Thinking Dr. M. Yalınay	Methods in History of Medicine and Medical Evolution Dr. N. Çobanoğlu Dr. N. Çençen	Türk dili dersi ara sınavı	FREE STUDY TIME
15:30-16:15	FREE STUDY TIME	Critical Thinking-1 Critical and Creative Thinking Dr. M. Yalınay	Data collection, Questionnaire preparing Dr. H. Tüzün	FREE STUDY TIME	FREE STUDY TIME
16:30-17:15	ELECTIVE COURSE (Online)	FREE STUDY TIME	Presentation of data, preparation of tables and graphics Dr. H. Tüzün	5i Course ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION (Online)	FREE STUDY TIME
17:30-18:15		BAĞIMSIZ ÇALIŞMA SAATİ	BAĞIMSIZ ÇALIŞMA SAATİ	ENGLISH	BAĞIMSIZ ÇALIŞMA SAATİ



	<b><u>5i Course</u></b> <b>TURKISH LANGUAGE</b> (Online)			(Online)	
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	29.11.2021 MONDAY	30.11.2021 TUESDAY	01.12.2021 WEDNESDAY	02.12.2021 THURSDAY	03.12.2021 FRIDAY
08:30-09:15	Introduction to biostatistics, measures of central tendency and dispersion Dr. H. Tüzün	Medieval Medicine Dr. N. Çobanoğlu Dr. N. Çençen	Lipoproteins Dr. N. Bukan	FREE STUDY TIME	Vitamins and cofactors: water soluble Dr. C. Karakaya
09:30-10:15	Distributions Dr. H. Tüzün Dr. C. Özbaş	Islamic Medicine Dr. N. Çobanoğlu Dr. N. Çençen	Lipoproteins Dr. N. Bukan	Introduction to significance tests Dr. F.N.Aksakal	Vitamins and cofactors: lipid soluble Dr. C. Karakaya
10:30-11:15	Critical Thinking-2 Social Media and Critical Thinking Dr. S. Kula	Steroids Dr. N. Bukan	Critical Thinking-3 Critical and Creative Thinking Processes Dr. H. Bolay Belen	Parametric tests Dr.F. N.Aksakal	Cell differentiation and developmental molecular biology Dr. E. Konaç
11:30-12:15	Critical Thinking-2 Social Media and Critical Thinking Dr. S. Kula	Steroids Dr. N. Bukan	Critical Thinking-3 Critical and Creative Thinking Processes Dr. H. Bolay Belen	Parametric tests Dr.F.N.Aksakal	Genetic Code and Protein Synthesis Dr. A.S. Yar Sağlam
13:30-14:15	Phospholipids and glycolipids Dr. K. Ünal	Biological Effects of extremely low frequency (ELF) E and B Fields: Epidemiologic and experimental studies Dr. A. Tomruk	Vitamins and cofactors: water soluble Dr. C. Karakaya	Problem Based Learning (Online)	Genetic Code and Protein Synthesis Dr. A.S. Yar Sağlam
14:30-15:15	FREE STUDY TIME	Biological Effects of extremely low frequency (ELF) E and B Fields: Epidemiologic and experimental studies Dr. A. Tomruk	Vitamins and cofactors: water soluble Dr. C. Karakaya	Problem Based Learning (Online)	FREE STUDY TIME
15:30-16:15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	Problem Based Learning (Online)	<b>APPLIED COURSES BIOCHEM.</b> Chromatographic determination of amino acids in urine (Online)
16:30-17:15	<b>ELECTIVE COURSE</b>	FREE STUDY TIME	FREE STUDY TIME	<b>5i Course ATATURK'S PRINCIPLES AND</b>	FREE STUDY TIME

	(Online)			<b>HISTORY OF TURKISH REVOLUTION</b>  (Online)	
<b>17:30-18:15</b>	<b><u>5i Course</u></b> <b>TURKISH LANGUAGE</b>  (Online)	FREE STUDY TIME	FREE STUDY TIME	<b>ENGLISH</b>  (Online)	FREE STUDY TIME

	06.12.2021 MONDAY	07.12.2021 TUESDAY	08.12.2021 WEDNESDAY	09.12.2021 THURSDAY	10.12.2021 FRIDAY
08:30-09:15	FREE STUDY TIME	Contemporary Scientific medicine and Features of the 20th Century Medicine Dr. N. Çobanoğlu Dr. N. Çençen	DNA Repair Mechanisms Dr. A.S. Yar Sağlam	FREE STUDY TIME	FREE STUDY TIME
09:30-10:15	Cell differentiation and developmental molecular biology Dr. E. Konaç	History of Turkish Medicine (Before the Republic Period) Dr. N. Çobanoğlu Dr. N. Çençen	DNA Repair Mechanisms Dr. A.S. Yar Sağlam	FREE STUDY TIME	History of Turkish Medicine (Republic Period) Dr. N. Çobanoğlu Dr. N. Çençen
10:30-11:15	Cell differentiation and developmental molecular biology Dr. E. Konaç	Mutations and mutagens Dr. A.S. Yar Sağlam	Critical Thinking-4 Critical, Creative Thinking and Visual Arts Dr. M. Yalınay	FREE STUDY TIME	Medical Ethics Dr. N. Çobanoğlu Dr. N. Çençen
11:30-12:15	Vitamins and cofactors: lipid soluble Dr. C. Karakaya	Mutations and mutagens Dr. A.S. Yar Sağlam	Critical Thinking-4 Critical, Creative Thinking and Visual Arts Dr. M. Yalınay	Biostatistics Planning a research, data collection and entry (Online)	Medical Ethics Dr. N. Çobanoğlu Dr. N. Çençen
13:30-14:15	Vitamins and cofactors: lipid soluble Dr. C. Karakaya	Mutations and mutagens Dr. A.S. Yar Sağlam	PH and buffer systems Dr. C. Karakaya	Problem Based Learning (Online)	Classification of cell death Dr. H. İ. Önen
14:30-15:15	FREE STUDY TIME	FREE STUDY TIME	PH and buffer systems Dr. C. Karakaya	Problem Based Learning (Online)	Classification of cell death Dr. H. İ. Önen
15:30-16:15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	Problem Based Learning (Online)	Nonparametric tests Dr.F.N.Aksakal
16:30-17:15	ELECTIVE COURSE (Online)	FREE STUDY TIME	FREE STUDY TIME	5i Course ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION (Online)	Nonparametric tests Dr.F.N.Aksakal
17:30-18:15	5i Course TURKISH LANGUAGE (Online)	FREE STUDY TIME	FREE STUDY TIME	ENGLISH (Online)	FREE STUDY TIME

	13.12.2021 MONDAY	14.12.2021 TUESDAY	15.12.2021 WEDNESDAY	16.12.2021 THURSDAY Dönem III Exam	17.12.2021 FRIDAY
08:30-09:15	FREE STUDY TIME	<b>APPLIED COURSES MEDICAL BIOLOGY</b> Whole blood genomic DNA isolation	FREE STUDY TIME	<b>APPLIED COURSES MEDICAL BIOLOGY</b> Whole blood genomic DNA isolation	FREE STUDY TIME
09:30-10:15	Intracellular and extracellular fluids and their compositions Dr. C. Karakaya	<b>APPLIED COURSES MEDICAL BIOLOGY</b> Whole blood genomic DNA isolation	Biological Effects of RF/MW Radiation, international EM field standards for EM radiation protection:General public and occupational exposure standards, Practical Measures for EM Radiation Protection Dr. A. Tomruk	<b>APPLIED COURSES MEDICAL BIOLOGY</b> Whole blood genomic DNA isolation	Biological Effects of RF/MW Radiation, international EM field standards for EM radiation protection:General public and occupational exposure standards, Practical Measures for EM Radiation Protection Dr. A. Tomruk
10:30-11:15	Molecular biology of cancer Dr. E. Konaç	<b>APPLIED COURSES MEDICAL BIOLOGY</b> Whole blood genomic DNA isolation	Critical Thinking Practice Critical and Creative Thinking Processes Dr. H. Bolay Belen	<b>APPLIED COURSES MEDICAL BIOLOGY</b> Whole blood genomic DNA isolation	Biological Effects of RF/MW Radiation, international EM field standards for EM radiation protection:General public and occupational exposure standards, Practical Measures for EM Radiation Protection Dr. A. Tomruk
11:30-12:15	Molecular biology of cancer Dr. E. Konaç	Molecular biology of cancer Dr. E. Konaç	Critical Thinking Practice 5N1K Critical Thinking Dr. S. Tunaoglu	FREE STUDY TIME	FREE STUDY TIME
13:30-14:15	Familial cancer syndromes Dr. M. A. Ergün	Membrane and transport Dr. A. Sepici Dinçel	Mobile Genetic elements Dr. H. İ. Önen	Problem Based Learning (Online)	FREE STUDY TIME
14:30-15:15	FREE STUDY TIME	Membrane and transport Dr. A. Sepici Dinçel	Organization of the human genome Dr. H. İ. Önen	Problem Based Learning (Online)	<b>Biostatistics</b> Data analysis, reporting and presenting data

					(Online)
<b>15:30-16:15</b>	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	<b>Problem Based Learning</b> (Online)	FREE STUDY TIME
<b>16:30-17:15</b>	<b>ELECTIVE COURSE</b> (Online)	FREE STUDY TIME	FREE STUDY TIME	<b>5i Course</b> <b>ATATURK'S PRINCIPLES AND HISTORY OF TURKISH REVOLUTION</b> (Online)	FREE STUDY TIME
<b>17:30-18:15</b>	<b>5i Course</b> <b>TURKISH LANGUAGE</b> (Online)	BAĞIMSIZ ÇALIŞMA SAATİ	BAĞIMSIZ ÇALIŞMA SAATİ	<b>ENGLISH</b> (Online)	BAĞIMSIZ ÇALIŞMA SAATİ

	20.12.2021 MONDAY	21.12.2021 TUESDAY	22.12.2021 WEDNESDAY	23.12.2021 THURSDAY	24.12.2021 FRIDAY
08:30-09:15	APPLIED COURSES MEDICAL BIOLOGY  PCR	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
09:30-10:15	APPLIED COURSES MEDICAL BIOLOGY  PCR	Recombinant DNA technology and gene therapy  Dr. H. İ. Önen	FREE STUDY TIME	Personal genome Project and What is personalized medicine?  Dr. A.S. Yar Sağlam	FREE STUDY TIME
10:30-11:15	APPLIED COURSES MEDICAL BIOLOGY  PCR	Recombinant DNA technology and gene therapy  Dr. H. İ. Önen	Critical Thinking Practice  Critical, Creative Thinking and Visual Arts  Dr. M. Yalınay	Personal genome Project and What is personalized medicine?  Dr. A.S. Yar Sağlam	FREE STUDY TIME
11:30-12:15	FREE STUDY TIME	Medical Ethics  Dr. N. Çobanoğlu Dr. N. Çençen	Critical Thinking Practice  Visual Arts and Critical Thinking Practice  Dr. M. Yalınay	Medical Ethics  Dr. N. Çobanoğlu Dr. N. Çençen	FREE STUDY TIME
13:30-14:15	FREE STUDY TIME	Medical Ethics  Dr. N. Çobanoğlu Dr. N. Çençen	Molecular biological methods in diagnosis  Dr. H. İ. Önen	FREE STUDY TIME	APPLIED COURSES MEDICAL BIOLOGY  PCR
14:30-15:15	FREE STUDY TIME	FREE STUDY TIME	Molecular biological methods in diagnosis  Dr. H. İ. Önen	APPLIED COURSES BIOCHEM. pH meter  (Online)	APPLIED COURSES MEDICAL BIOLOGY  PCR
15:30-16:15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	APPLIED COURSES MEDICAL BIOLOGY  PCR
16:30-17:15	ELECTIVE COURSE  (Online)	FREE STUDY TIME	FREE STUDY TIME	<u>5i Course</u>  ATATURK'S PRINCIPLES AND HISTORY OF	

				<b>TURKISH REVOLUTION</b> (Online)	
<b>17:30- 18:15</b>	<b><u>5i Course</u></b> <b>TURKISH LANGUAGE</b>  (Online)	FREE STUDY TIME	FREE STUDY TIME	<b>ENGLISH</b>  (Online)	BAĞIMSIZ ÇALIŞMA SAATİ



	27.12.2021 MONDAY	28.12.2021 TUESDAY	29.12.2021 WEDNESDAY	30.12.2021 THURSDAY	31.12.2021 FRIDAY
08:30-09:15	FREE STUDY TIME	<b>PHASE I COMMITTEE 2nd THEORETICAL EXAM Time:09:30</b>			
09:30-10:15	FREE STUDY TIME				
10:30-11:15	FREE STUDY TIME				
11:30-12:15	FREE STUDY TIME				
13:30-14:15	FREE STUDY TIME	FREE STUDY TIME			
14:30-15:15	FREE STUDY TIME	FREE STUDY TIME			
15:30-16:15	FREE STUDY TIME	FREE STUDY TIME			
16:30-17:15	<b>ELECTIVE COURSE</b> (Online)	FREE STUDY TIME			
17:30-18:15	<u>5i Course</u> <b>TURKISH LANGUAGE</b> (Online)	FREE STUDY TIME			