

GAZİ UNIVERSITY FACULTY OF MEDICINE
2025-2026 EDUCATIONAL YEAR 2

CELL, TISSUE INJURY AND BASICS OF THE
PHARMACOLOGY COMMITTEE

(27.04.2026 – 05.06.2026)

COURSES	THEORETICAL	LABORATORY	PRACTICAL	TOTAL
Medical Pharmacology	36	-	-	36
Medical Pathology	16	-	-	-
Immunology	20	-	-	20
Nuclear Medicine	4	-	-	4
Radiology	3	-	-	3
Medical Biochemistry	2	-	-	2
PANEL: General Approach to Intoxications (Department of Emergency Medicine/ Pediatrics, Department of Pharmacology)	1	-	-	1
TOTAL	82			82
Elective Courses	6	-	-	6
Medical English	6	-	-	6
INTRODUCTION TO MEDICINE				
Clinical Skills Education (CSE)	-	-	1x2	2
Problem Based Learning (PBL)	2	-	-	2
TOTAL	96		2	98
TOTAL FREE STUDY TIME		98 Hours		

24 Work Days

30.04.2026	THURSDAY	Progress Exam
07.05.2026	THURSDAY	Student Symposium
13.05.2026	WEDNESDAY	Clinical Skills Education Exam
05.06.2026	FRIDAY	Year II Theoretical Exam + PBL Exam

Dean	Prof.Dr. Alper CEYLAN
Vice Dean	Assoc. Prof. Dr. Nazmi Mutlu KARAKAŞ
Vice Dean	Prof. Dr. Asiye UĞRAŞ DİKMEN
Head Coordinator	Prof.Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof.Dr. Akif Muhtar ÖZTÜRK
Assistant Head Coordinator (ENG)	Prof.Dr. Mehmet Ali ERGÜN
Year 2 Coordinator	Prof. Dr. C. Merve SEYMEN
Assistant Year 2 Coordinator	Assist. Prof. Dr. Arın TOMRUK
Assistant Year 2 Coordinator	Teach. Assist. Dr. Nihan ÖRÜKLÜ
Assistant Year 2 Coordinator	Teach. Assist. Dr. Ayşe SOYLU
Assistant Year 2 Coordinator	Teach. Assist. Dr. H Betül MOĞULKOÇ
Assistant Year 2 Coordinator	Teach. Assist. Dr. Onur ARAS

MEMBERS OF COMMITTEE

MEDICAL PHARMACOLOGY	MEDICAL PATHOLOGY	IMMUNOLOGY	NUCLEAR MEDICINE
Dr. Çimen KARASU	Dr. Emine ŞAMDANCI	Dr. Resul KARAKUŞ	Dr. Neşe İLGİN KARABACAK
Dr. Ergin DİLEKÖZ	Dr. Betül ÖĞÜT	Dr. E. Ümit BAĞRIAÇIK	Dr. Ümit Özgür AKDEMİR
Dr. Canan ULUOĞLU	Dr. Güldal ESENDAĞLI	Dr. Cemalettin AYBAY	
Dr. S. Gökçe ÖZTÜRK FİNCAN	Dr. F. Pınar U. GÖÇÜN	Dr. Vedat BULUT	
Dr. Süreyya BARUN		Dr. Ayşegül ATAK YÜCEL	
Dr. Sevil ÖZGER İLHAN		Dr. Nihan ÖRÜKLÜ	
Dr. M. Cihan GÜVEL			
RADIOLOGY		MEDICAL BIOCHEMISTRY	
Dr. Halit Nihat ŞENDUR		Dr. Cengiz KARAKAYA	
Dr. A. Cenay KARABÖRK KILIÇ			

Clinical Skills Education Coordinator	Prof. Dr. Nurten İNAN
Elective Course Coordinator	Assoc. Prof. Dr. Ergin DİLEKÖZ
Evidence Based Medicine Coordinator	Prof. Dr. Mehmet Ali ERGUN

CELL AND TISSUE DAMAGE AND THE BASICS OF PHARMACOLOGY COMMITTEE

Objective

To help explain cell and tissue damage stages and pathogenetic mechanisms, types of inflammation, (hemodynamic) disturbances in blood flow or fluid balance in the pathogenesis of many diseases leading to death and pathogenesis of diseases related to the immune system.

To describe the working order of the immune system in pathological events, pharmacokinetics and pharmacodynamics of drugs, factors affecting drug effect, drug adverse effects and intoxications, herbal drugs, drugs acting on the immune system, trace elements and vitamins, pharmacogenetics, new drug development and otakoids, radioactivity, biological effects of radiation, measurement of radiation, imaging with radiopharmaceuticals.

To learn oxidant stress and leukocyte biochemistry.

To describe systemic and autoimmune vasculitis

LEARNING OBJECTIVES

Knowledge

LO-200-5-1 Should be able to explain the pathological mechanisms and consequences of cell and tissue damage

LO-200-5-2 Should be able to define types of inflammation, developmental patterns and morphological patterns

LO-200-5-3 Should be able to explain the mechanisms of immune diseases

LO-200-5-4 Should be able to describe the role of immune cells and their role in immune defense

LO-200-5-5 Should be able to define general concepts of pharmacology

LO-200-5-6 Should be able to explain the concepts related to drug pharmacokinetics and pharmacodynamics

LO-200-5-7 Should be able to explain how metabolism and effects of drugs change between individuals / ethnic groups due to genetic differences, explain the steps of new drug development process and explain their mechanisms

LO-200-5-8 Should be able to define autotoxins

LO-200-5-9 Should be able to explain radioactivity, types of radiation used in medicine and basic concepts related to the subject

LO-200-5-10 Should be able to comprehend the interaction of radiation with biological systems and radiation protection principles

LO-200-5-11 Should be able to describe radiopharmaceuticals and their mechanisms of involvement

LO-200-5-12 Should be able to define the mechanisms of leukocyte biochemistry and oxidative stress

LO-200-5-13 Should be able to explain the laboratory tests used in rheumatologic diseases and their follow-up

LO-200-5-14 Should be able to explain the mechanism of autoimmune diseases and vasculitis, how to diagnose, follow and treat

Skill

LO-200-5-15 Should be able to define radiological methods and electromagnetic wave spectrum

LO-200-5-16 Should be able to define thrombus, coagulation necrosis and caseification necrosis by microscope

LO-200-5-17 Should be able to suture

LO-200-5-18 Should be able to perform medical dressing.

Attitude

LO-200-5-19 To recognize the importance of immunology in medicine

LO-200-5-20 To observe the radiological methods associated with almost all disciplines of medicine and to observe different types of energy used during the application of these methods

1 st WEEK	27.04.2026 Monday	28.04.2026 Tuesday	29.04.2026 Wednesday	30.04.2026 Thursday	01.05.2026 Friday
08:30-09:20	4 th Committee Feedback Coordinators	Free Study Time	Free Study Time	PROGRESS EXAM	PUBLIC HOLIDAY
09:30-10:20	Leucocyte Migration and Inflammation Dr. KARAKUŞ	Immunoregulation Dr. BAĞRIAÇIK	Drug Absorption and Bioavailability Dr. GÜVEL	PROGRESS EXAM	PUBLIC HOLIDAY
10:30-11:20	Other Receptors in Immune Response Dr. ÖRÜKLÜ	Pharmacology and General Principles of Drug Action Dr. KARASU	Drug Absorption and Bioavailability Dr. GÜVEL	PROGRESS EXAM	PUBLIC HOLIDAY
11:30-12:20	Other Receptors in Immune Response Dr. ÖRÜKLÜ	Pharmacology and General Principles of Drug Action Dr. KARASU	Drug Administration Routes and Properties of Pharmaceutical Forms Dr. KARASU	PROGRESS EXAM	PUBLIC HOLIDAY
13:30-14:20	Ionizing Radiation and X-Rays Dr. KARABÖRK KILIÇ	Medical English	Cell Injury and Its Causes Dr. ŞAMDANCI	Intracellular Accumulations Dr. ŞAMDANCI	PUBLIC HOLIDAY
14:30-15:20	Free Study Time	Medical English	Necrosis, Apoptosis Dr. ŞAMDANCI	Cellular Adaptations Dr. ŞAMDANCI	PUBLIC HOLIDAY
15:30-16:20	Free Study Time	Elective Courses	Free Study Time	Drug Distribution Dr. GÜVEL	PUBLIC HOLIDAY
16:30-17:20	Free Study Time	Elective Courses	Free Study Time	Free Study Time	PUBLIC HOLIDAY

2 nd WEEK	04.05.2026 Monday	05.05.2026 Tuesday	06.05.2026 Wednesday	07.05.2026 Thursday	08.05.2026 Friday
08:30-09:20	Drug Biotransformation Dr. GÜVEL	Free Study Time	Free Study Time	STUDENT SYMPOSIUM	CSE MAKE-UP
09:30-10:20	Drug Biotransformation Dr. GÜVEL	Description of Inflammation and Pathogenesis Dr. ÖĞÜT	Factors Modifying Drug Effect Dr. DİLEKÖZ	STUDENT SYMPOSIUM	CSE MAKE-UP
10:30-11:20	Drug –Receptor Interaction and Mechanisms of Action Dr. KARASU	Drug –Receptor Interaction and Mechanisms of Action Dr. KARASU	Factors Modifying Drug Effect Dr. DİLEKÖZ	STUDENT SYMPOSIUM	CSE MAKE-UP
11:30-12:20	Drug –Receptor Interaction and Mechanisms of Action Dr. KARASU	Drug Elimination Dr. GÜVEL	Immunopathological Mechanisms in Tissue Damage Dr. BULUT	STUDENT SYMPOSIUM	CSE MAKE-UP
13:30-14:20	Immunological Tolerance Dr. BAĞRIAÇIK	Medical English	Type I Hypersensitivity Dr. BULUT	STUDENT SYMPOSIUM	Drug Discovery and Development Dr. GÜVEL
14:30-15:20	Immunological Tolerance Dr. BAĞRIAÇIK	Medical English	Free Study Time	STUDENT SYMPOSIUM	Acute Inflammation Dr. ÖĞÜT
15:30-16:20	Free Study Time	Elective Courses	Free Study Time	STUDENT SYMPOSIUM	Acute Inflammation Dr. ÖĞÜT
16:30-17:20	Free Study Time	Elective Courses	Free Study Time	STUDENT SYMPOSIUM	Free Study Time

3 rd WEEK	11.05.2026 Monday	12.05.2026 Tuesday	13.05.2026 Wednesday	14.05.2026 Thursday	15.05.2026 Friday
08:30-09:20	Drug Toxicity Dr. GÜVEL	Free Study Time	Radiation Dosimetry- Biological Effects of Radiation Principles of Protection Dr. KARABACAK	CSE EXAM	Free Study Time
09:30-10:20	Characteristics of X- Rays and Their Diagnostic Use in Medicine Dr. KARABÖRK KILIÇ	Chronic Inflammation Dr. ÖĞÜT	Redox Regulators, Antioxidants and Vitamins Dr. KARASU	CSE EXAM	Radiation Detection- Principles of Detection and Intrumention Dr. AKDEMİR
10:30-11:20	Concentration- Response Relationship Dr. ULUOĞLU	Inflammation and Repair Dr. ÖĞÜT	Redox Regulators, Antioxidants and Vitamins Dr. KARASU	CSE EXAM	Radionuclides, Radioactive Labelled Pharmaceuticals and Principles of Imaging Dr. AKDEMİR
11:30-12:20	Concentration- Response Relationship Dr. ULUOĞLU	Time-Concentration Relationship Dr. ULUOĞLU	PANEL: GENERAL APPROACH TO INTOXICATIONS	CSE EXAM	Type IV Hypersensitivity Dr. BULUT
13:30-14:20	Type II Hypersensitivity Dr. BULUT	Medical English	Problem Based Learning (PBL) Dr. ERGUN	Pharmaceutics, Nutraceutics and Phytotherapeutics Dr. KARASU	Immune Diseases: Introduction Dr. ÖĞÜT
14:30-15:20	Type III Hypersensitivity Dr. BULUT	Medical English	Problem Based Learning (PBL) Dr. ERGUN	Pharmaceutics, Nutraceutics and Phytotherapeutics Dr. KARASU	Immune Diseases: Introduction Dr. ÖĞÜT
15:30-16:20	Free Study Time	Elective Courses	Immunomodulators Dr. BARUN	Heavy Metal Toxicity Dr. GÜVEL	Pharmacovigilans Dr. GÜVEL
16:30-17:20	Free Study Time	Elective Courses	Free Study Time	Free Study Time	Free Study Time

4 rd WEEK	18.05.2026 Monday	19.05.2026 Tuesday	20.05.2026 Wednesday	21.05.2026 Thursday (Phase-3 T. Exam)	22.05.2026 Friday (Phase-1 T. Exam)
08:30-09:20	Free Study Time	PUBLIC HOLIDAY	Free Study Time	Free Study Time	Free Study Time
09:30-10:20	Principles in Treatment of Acute Toxicity Dr. GÜVEL	PUBLIC HOLIDAY	Vasoactive Peptides Dr. DİLEKÖZ	Vasoactive Peptides Dr. DİLEKÖZ	Hemodynamic Disorders Dr. GÖÇÜN
10:30-11:20	Pathology of Immune Diseases Dr. ESENDAĞLI	PUBLIC HOLIDAY	Vasoactive Peptides Dr. DİLEKÖZ	Nitric Oxide Dr. DİLEKÖZ	Hemodynamic Disorders Dr. GÖÇÜN
11:30-12:20	Pathology of Immune Diseases Dr. ESENDAĞLI	PUBLIC HOLIDAY	Radiactivity, Atomic Structure and Interaction of Radiation with Matter Dr. AKDEMİR	Amyloidosis Dr. GÖÇÜN	Autoimmunity Dr. ATAK YÜCEL
13:30-14:20	PUBLIC HOLIDAY	PUBLIC HOLIDAY	Imaging Modalities and the Properties of Energies Other than X-Rays Dr. ŞENDUR	Transplantation Immunology Dr. BULUT	Autoimmunity Dr. ATAK YÜCEL
14:30-15:20	PUBLIC HOLIDAY	PUBLIC HOLIDAY	Immunological Techniques Dr. ÖRÜKLÜ	Transplantation Immunology Dr. BULUT	Autoimmunity Dr. ATAK YÜCEL
15:30-16:20	PUBLIC HOLIDAY	PUBLIC HOLIDAY	Immunological Techniques Dr. ÖRÜKLÜ	Free Study Time	Histamine, Serotonin, Ergot Alkaloids Dr. DİLEKÖZ
16:30-17:20	PUBLIC HOLIDAY	PUBLIC HOLIDAY	Free Study Time	Free Study Time	Histamine, Serotonin, Ergot Alkaloids Dr. DİLEKÖZ

5th WEEK	25.05.2026 Monday	26.05.2026 Tuesday	27.05.2026 Wednesday	28.05.2026 Thursday	29.05.2026 Friday
08:30-09:20	Free Study Time	Free Study Time	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY
09:30-10:20	Free Study Time	Free Study Time	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY
10:30-11:20	Free Study Time	Free Study Time	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY
11:30-12:20	Free Study Time	Free Study Time	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY
13:30-14:20	Free Study Time	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY
14:30-15:20	Free Study Time	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY
15:30-16:20	Free Study Time	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY
16:30-17:20	Free Study Time	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY	PUBLIC HOLIDAY

6 th WEEK	01.06.2026 Monday	02.06.2026 Tuesday	03.06.2026 Wednesday	04.06.2026 Thursday	05.06.2026 Friday
08:30-09:20	The Eicosanoids: Prostaglandins, Thromboxanes, Leukotrienes, Related Compounds Dr. DİLEKÖZ	Free Study Time	Free Study Time	Free Study Time	THEORETICAL EXAM
09:30-10:20	The Eicosanoids: Prostaglandins, Thromboxanes, Leukotrienes, Related Compounds Dr. DİLEKÖZ	Free Study Time	Free Study Time	Free Study Time	THEORETICAL EXAM
10:30-11:20	Free Radical Metabolism and Related Disease Dr. KARAKAYA	Free Study Time	Free Study Time	Free Study Time	THEORETICAL EXAM
11:30-12:20	Free Radical Metabolism and Related Disease Dr. KARAKAYA	Free Study Time	Free Study Time	Free Study Time	THEORETICAL EXAM
13:30-14:20	Immunomodulation Dr. BULUT	Free Study Time	Free Study Time	Free Study Time	Free Study Time
14:30-15:20	Immunomodulation Dr. BULUT	Free Study Time	Free Study Time	Free Study Time	Free Study Time
15:30-16:20	Free Study Time	Free Study Time	Free Study Time	Free Study Time	Free Study Time
16:30-17:20	Free Study Time	Free Study Time	Free Study Time	Free Study Time	Free Study Time