

2026–2027 Ankara Medipol University, Faculty of Pharmacy, Graduation Project Topics

Department	Faculty Member	Project Topic	Number of Students
Analytical Chemistry	Prof. Dr. Eylem TURAN	Biosensors for Therapeutic Drug Monitoring in Biological Fluids: Current Approaches and Clinical Relevance	2
Analytical Chemistry	Prof. Dr. Eylem TURAN	Molecularly Imprinted Polymer (MIP)-Based Sensors for Pharmaceutical Analysis: A Review of Selectivity and Sensitivity	1
Analytical Chemistry	Prof. Dr. Eylem TURAN	Wearable Sensor Technologies for Real-Time Monitoring of Patients with Chronic Diseases	2
Analytical Chemistry	Dr. Öğr. Üyesi Ece ÖZKAN	Determination of Heavy Metals in Dietary Supplements Using Instrumental Analytical Methods	2
Analytical Chemistry	Dr. Öğr. Üyesi Ece ÖZKAN	Determination of Antioxidant Activity in Pharmaceutical Preparations Using Chromatographic Methods	2
Analytical Chemistry	Dr. Öğr. Üyesi Ece ÖZKAN	Biomass-Derived Adsorbents for Sustainable Sample Preparation in Analytical Chemistry	1
Analytical Chemistry	Dr. Öğr. Üyesi Sevda AKAY SAZAKLIOĞLU	Quantum Dot Technologies for High-Sensitivity Drug Detection	2
Analytical Chemistry	Dr. Öğr. Üyesi Sevda AKAY SAZAKLIOĞLU	Spectrophotometric Determination of Kojic Acid and Investigation of Its Interactions with Metal Ions	2
Analytical Chemistry	Dr. Öğr. Üyesi Sevda AKAY SAZAKLIOĞLU	The Use of Copper and Copper Nanoparticles in Pharmaceutical Analysis	1
Biochemistry	Dr. Öğr. Üyesi Mehmet Can	Itaconate: Biochemical Mechanisms and Therapeutic Potential	2
Biochemistry	Dr. Öğr. Üyesi Mehmet Can	Hemoglobin-Based Oxygen Carriers: Biochemical Foundations, Molecular Modifications, and Clinical Advances	2
Biochemistry	Dr. Öğr. Üyesi Mehmet Can	Micro- and Nanoplastics: Interactions with Human Enzymes and Metabolism	1
Biochemistry	Dr. Öğr. Üyesi Erva Özkan	Cellular Senescence and Quiescence: Molecular Mechanisms, Biological Functions, and Therapeutic Implications	2

Biochemistry	Dr. Öğr. Üyesi Erva Özkan	Polyploid Giant Cancer Cells: Mechanisms of Formation and Potential Therapeutic Targets	2
Biochemistry	Dr. Öğr. Üyesi Erva Özkan	The Role of Tumor Microenvironment Components in Cancer Metastasis	1
Pharmaceutical Chemistry	Öğr. Gör. Nisa Nur KARAASLAN	Synthesis Method of Angiotensin Converting Enzyme Inhibitors	2
Pharmaceutical Chemistry	Öğr. Gör. Nisa Nur KARAASLAN	The Role of Acetylcholinesterase Inhibitors in Alzheimer's Disease and Investigation of Their Structure-Activity Relationships	2
Pharmaceutical Chemistry	Öğr. Gör. Nisa Nur KARAASLAN	General Synthesis Methods and Structure Activity Relationships of Benzodiazepine Compounds	2
Pharmaceutical Chemistry	Öğr. Gör. Ertuğrul YILDIRIM	Structural Characteristics and Structure-Activity Relationships of Angiotensin Converting Enzyme Inhibitors	2
Pharmaceutical Chemistry	Öğr. Gör. Ertuğrul YILDIRIM	Structural Characteristics and Structure-Activity Relationships of Selective COX-2 Inhibitors	2
Pharmaceutical Chemistry	Öğr. Gör. Ertuğrul YILDIRIM	The Importance of Heterocyclic Rings in Drug Design	2
Pharmaceutical Botany	Dr. Öğr. Üyesi Fatma TAEB DİŞLİ	Plants Traditionally Used for Their Anti-inflammatory Properties and Their Scientifically Validated Pharmaceutical Effects	2
Pharmaceutical Botany	Dr. Öğr. Üyesi Fatma TAEB DİŞLİ	Genera of the Asteraceae Family with Ethnobotanical Uses and Their Pharmaceutical Effects	2
Pharmaceutical Botany	Dr. Öğr. Üyesi Fatma TAEB DİŞLİ	Plants Used as Insecticides and Their Scientifically Validated Effects	1
Pharmaceutical Microbiology	Dr. Öğr. Üyesi Gizem ARIK	Antimicrobial Resistance in Enterobacterales: Mechanisms and Current Strategies for Control and Treatment	2
Pharmaceutical Microbiology	Dr. Öğr. Üyesi Gizem ARIK	Antimicrobial Resistance in Non-Fermenting Gram-Negative Bacteria: Mechanisms and Current Strategies for Control and Treatment	2
Pharmaceutical Microbiology	Dr. Öğr. Üyesi Gizem ARIK	Artificial Intelligence and Genomic Approaches for Antimicrobial Resistance Surveillance	1
Pharmaceutical Microbiology	Doç. Dr. Pınar MURSA LOĞLU KAYNAR	Current approaches to the control of foodborne bacterial biofilms	2
Pharmaceutical Microbiology	Doç. Dr. Pınar MURSA LOĞLU KAYNAR	Effects of cosmetic products on the skin microbiota	2

Pharmaceutical Microbiology	Doç. Dr. Pinar MURSA LO ĞLU KAYNAR	Potential use of plant-derived antimicrobials as cosmetic preservatives	1
Pharmaceutical Technology	Doç. Dr. Alptu ğ Eren KARAKÜÇÜK	Natural and Synthetic Polymer-Based Hemostatics	1
Pharmaceutical Technology	Ö ğr. Gör. Zeynep KOCAİZMİRLİ AKTAŞ	Direct Drug Delivery from the Nose to the Brain	2
Pharmaceutical Technology	Ö ğr. Gör. Zeynep KOCAİZMİRLİ AKTAŞ	Self-Nanoemulsifying Drug Delivery Systems for Enhancing Oral Bioavailability	1
Pharmaceutical Technology	Ö ğr. Gör. Zeynep KOCAİZMİRLİ AKTAŞ	Cyclodextrin Complexes in Pharmaceutical Formulations	2
Pharmacology	Dr. Ö ğr. Üyesi GÖKÇE ÇALIŞKAN	The Role of the Pharmacist in the Use of Pre-Workout Supplements	2
Pharmacology	Dr. Ö ğr. Üyesi GÖKÇE ÇALIŞKAN	Cocaine and Its Medical Use	2
Pharmacology	Dr. Ö ğr. Üyesi AYBÜKE SÜVEYDA TEZGELEN	Generative AI Medication Counselling in Asthma: A Guideline-Based Evaluation	2
Pharmacology	Dr. Ö ğr. Üyesi AYBÜKE SÜVEYDA TEZGELEN	Generative AI Medication Counselling in DOAC-Treated Atrial Fibrillation: A Guideline-Based Evaluation	2
Pharmacology	Dr. Ö ğr. Üyesi AYBÜKE SÜVEYDA TEZGELEN	Medication-Related Problems and Care Needs in Older Adults	1
Pharmacology	Dr. Ö ğr. Üyesi HEBA ASKER	Drug Repurposing of GLP-1 Receptor Agonists for Alzheimer’s Disease	1
Pharmacology	Dr. Ö ğr. Üyesi HEBA ASKER	The Role of Cortisol Regulation in Refractory Type2 Diabetes Mellitus: Implication for Rational Drug Use	2
Pharmacology	Dr. Ö ğr. Üyesi HEBA ASKER	PROTAC Technology: Targeted Protein Degradation as a Next-Generation Pharmacological Strategy	2
Pharmacology	Doç. Dr. ZÜBEYİR ELMAZO ĞLU	Decoding the Neuroprotective Potential of Oleuropein Aglycone (OLEA) in Amyotrophic Lateral Sclerosis: Molecular Targets and Mechanisms of Action	2
Pharmacognosy	Dr. Ö ğr. Üyesi Nuriye Hilal TAŞTEKİN	Ethnobotany for postpartum hemorrhage	2
Pharmacognosy	Dr. Ö ğr. Üyesi Nuriye Hilal TAŞTEKİN	Enzyme Inhibition Profiles of <i>Salvia virgata</i> and <i>Salvia sclarea</i>	2

Pharmacognosy	Dr. Öğr. Üyesi Nuriye Hilal TAŞTEKİN	Boron in Pharmacognosy: Natural Products, Complexes, and Drug Discovery Perspectives	1
Pharmacognosy	Dr. Öğr. Üyesi Gökşen Dilşat DURBİLMEZ ÜSTÜN	Current Approaches to Dermocosmetic Systems Developed with Silk Proteins	2
Pharmacognosy	Dr. Öğr. Üyesi Gökşen Dilşat DURBİLMEZ ÜSTÜN	Pharmaceutical Potentials of Endemic Plants Situated in the Flora of Ankara	2
Pharmacognosy	Dr. Öğr. Üyesi Gökşen Dilşat DURBİLMEZ ÜSTÜN	Comprehensive Pharmacognostic Investigations on <i>Atocion compactum</i> (Fisch. ex Hornem.) Tzvelev	1
Pharmacognosy	Öğr. Gör. Elif Ayça ALTINKAYA SAMİM	Medicinal Plants Used to Support the Immune System	1
Pharmacognosy	Öğr. Gör. Elif Ayça ALTINKAYA SAMİM	Homeopathy and Examples of Pharmaceutical Applications	2
Pharmacognosy	Öğr. Gör. Elif Ayça ALTINKAYA SAMİM	Antimicrobial Activities of Medicinal Plants Belonging to the Fabaceae Family	2
Pharmacognosy	Öğr. Gör. Eda AVCI	Anti-Aging Effects and Cosmetic Applications of Polyphenolic Compounds	2
Pharmacognosy	Öğr. Gör. Eda AVCI	Antifungal Potential of Herbal Essential Oils Against Candida Infections	2
Pharmacognosy	Öğr. Gör. Eda AVCI	Drug–Herb Interactions: Mechanisms, Clinical Significance, and Safety Assessment	1