



TC

ADYAMAN ÜNİVERSİTESİ

FACULTY OF PHARMACY

2006

INTRODUCTORY BOOKLET

2024-2025

	<h2>CONTENT</h2>
	<ul style="list-style-type: none">• Our Faculty• Administration• Our Mission and Vision• Importance of Pharmacy Science• Why should you choose the faculty of pharmacy?• Job Opportunities for Our Graduates• The lowest score and faculty quota based on the Central Placement Exam• Departments of Scientific Fields and Our Academic Staff• Our course information packages

About our faculty

Our faculty received its establishment permission following the decision of the Council of Ministers numbered 1595, dated April 4, 2011, which was published in the Resmi Gazete on April 15, 2011, with issue number 27906. Its academic organizational structure was completed with the YÖK decision in 2014.

Our Faculty is composed of three departments: Department of Pharmaceutical Professional Sciences, Department of Pharmaceutical Technologies, and Department of Pharmaceutical Basic Sciences.

Department of Pharmaceutical Professional Sciences consists of six academic units: Pharmacognosy, Pharmacology, Pharmacobotany, Pharmaceutical Chemistry, Pharmaceutical Toxicology, and Pharmacy Management.

The Department of Pharmaceutical Technologies includes two academic units: Pharmaceutical Biotechnology and Pharmaceutical Technology.

The Department of Basic Pharmaceutical Sciences is made up of three academic units: Analytical Chemistry, Biochemistry, and Pharmaceutical Microbiology.

Our faculty started its educational activities with 62 students in the 2015-2016 academic year and graduated its first students in the 2019-2020 academic year. Our current student population is 292. Since its establishment, our faculty has continuously enriched its academic staff, and as of the 2024-2025 academic year, it is carrying out academic and educational services with a total of 22 faculty members, including 5 professors, 6 associate professors, 9 assistant professors, and 2 teaching staff.

In our faculty, five administrative personnel serve in roles such as faculty secretary, clerical work, personnel affairs, and financial affairs.

Our faculty aims to train pharmacists who meet internationally accepted standards: equipped with up-to-date theoretical and practical knowledge, possessing cultural awareness and communication skills, with developed research and problem-solving abilities, and capable of leading their environment.



ADMINISTRATION



Dean: Professor Murat KOCA

Associate Deans

Assoc. Prof. Dr. Ertuğrul Keskin (Administrative)

Assit. Prof. Dr. Süleyman. Akocak (Education-Training)

Our faculty's mission

The program aims to cultivate pharmacists who utilize knowledge in accordance with ethical values, generate knowledge that contributes to societal health, and exhibit qualities such as being contemporary, inquisitive, innovative, collaborative, constructive, altruistic, and possessing a high sense of duty and responsibility. These pharmacists are entrepreneurial, prioritize the interests of the state and institutions, uphold honesty and meritocracy, demonstrate diligence, are solution-oriented, and achieve success in research, development, and production. Additionally, they possess current professional competencies, think critically and analytically, engage in continuous learning to keep their knowledge up-to-date, leverage technological and scientific advancements for societal benefit, exhibit self-confidence, and assume active roles and responsibilities at every stage of their professional journey.

Our faculty's vision

To establish itself as one of the leading faculties in developing, implementing, and advancing strategies for public education, training, research, development, and production that prioritize addressing the needs of the nation and society, by training pharmacists equipped with comprehensive knowledge, skills, and resources in their field, and utilizing technology pertinent to their profession in accordance with universal standards.

Importance of Pharmacy Science

Pharmaceutical sciences constitute a fundamental discipline that plays an indispensable role in the prevention and improvement of human health. Through its research on drug development, safety, and efficacy, it not only enhances patients' quality of life but also bears significant responsibility in safeguarding public health. Pharmacists are not solely responsible for the provision of medications; they also offer guidance to patients regarding medication use and health consultations. Therefore, pharmaceutical sciences hold a crucial position at the intersection of biological and chemical sciences, serving as an essential component of health systems and contributing to the sustainability of human life.

Why should you choose the faculty of pharmacy?

1. Passion for Contributing to Health and Helping People

Pharmacy is a profession that directly contributes to human health, providing healing and confidence to patients. If you have a desire to promote health and assist others, this profession can open a door that makes you feel personally fulfilling.

2. A Strong and Respectable Profession

Pharmacy is a highly respected, trusted, and enduring profession within society. Additionally, it offers extensive career opportunities within the field, including clinical pharmacy, research, and employment in the pharmaceutical industry.

3. Interest in Pharmaceutical and Chemical Sciences

This field is ideal for students who are interested in sciences such as chemistry and biology, and who enjoy discovering new things. The profession provides an opportunity to translate scientific curiosity into practical applications.

4. Entrepreneurial and Innovative Opportunities

There are entrepreneurial prospects within pharmacy, such as establishing one's own practice, engaging in drug development, or working with new technologies. These opportunities help make the profession attractive for the future.

5. A Secure and Stable Profession

Particularly during economic and social crises, health and pharmaceuticals remain a priority. Therefore, pharmacy is a stable profession with sustained demand, even during times of crisis.

6. Personal Development and Lifelong Learning

As pharmacy is an ever-evolving field, practitioners must continually follow innovations and enhance their knowledge throughout their careers. This dynamic nature makes the profession both exciting and fulfilling.

If one or more of these reasons resonate with you, choosing to study pharmacy could be an appropriate and promising decision.

2006

Job Opportunities for Our Graduates

1. Pharmacy Practice and Community Pharmacies

Graduates who choose this most common and preferred field can establish their own pharmacies or work in existing ones. In this setting, they provide medication dispensing, medication counseling, and health consultations, thereby contributing to the promotion and protection of public health.

2. Pharmaceutical Industry and Pharmaceutical Company Positions

Graduates selecting this area may engage in research and development activities related to drug manufacturing and formulation. They can find employment opportunities as sales representatives, quality control specialists, research and development professionals, or within production and sales departments.

3. Hospitals and Healthcare Institutions

Graduates in this field can work as clinical pharmacists in hospitals. They ensure the proper use of medicines during treatment processes.

Employment opportunities are available in government hospitals affiliated with the Ministry of Health, private hospitals, and other healthcare centers.

4. Public Health and Provincial Health Directorates

Graduates may serve as health inspectors, quality control specialists, or health consultants within public institutions. They can also work at family health centers and community health centers.

5. Research and Development and Academic Careers

Graduates have the opportunity to pursue academic careers at universities and work as researchers involved in developing new drugs and treatment methods. They can participate in research projects related to health and pharmaceutical sciences.

6. Education and Consultancy

Graduates may work as educators or training consultants in institutions providing education in the field of pharmacy. Additionally, opportunities exist within health tourism and consulting firms.

7. Entrepreneurship

Beyond establishing pharmacies, graduates can undertake ventures involving technological devices for drug monitoring or the production of healthcare products.

8. Opportunities Worldwide and Abroad

There are also opportunities for employment and education abroad, particularly in European and Middle Eastern countries, where pharmacy professionals can find numerous job prospects.

In conclusion, pharmacy graduates have the potential to build careers across nearly every sector of the health industry, including public and private sectors, research and development, cosmetics and health products, education, and consulting. This broad spectrum of possibilities renders the profession attractive both domestically and internationally.

The lowest score and faculty quota based on the Central Placement Exam

In 2024, according to the placement results announced by the Student Selection and Placement Center (Ölçme, Seçme ve

Yerleřtirme Merkezi Bařkanlıęı), students who achieved a minimum score of 425.00 and a ranking within the top 58,656 have enrolled in our faculty. All 51 available student quotas have been filled.

*Reference : <https://yokatlas.yok.gov.tr/lisans.php?y=100210353>



Academic Units and Staff

Pharmaceutical Professional Sciences

Head of Department

Prof. Dr.Murat Koca

Departments

Department of Pharmacognosy

Dr Öğr. Üyesi Erkan YILMAZ

Dr Öğr. Üyesi Miray EGE

Department of Pharmacology

Dr Öğr. Üyesi Aslınur DOĞAN

Department of Pharmaceutical Botany

Prof. Dr.Ömer KILIÇ

Dr.Öğr.Üyesi Görkem DENİZ SÖNMEZ

Department of Pharmaceutical Chemistry

Prof. Dr.Murat Koca

Doç.Dr. Nebih LOLAK

Dr Öğr. Üyesi Süleyman AKOCAK

Department of Pharmaceutical Toxicology

Doç.Dr.Hasan AYDIN

Department of Pharmacy Management

Doç.Dr.Gülşen KIRPIK

Pharmaceutical Technology Sciences

Head of Department

Prof. Dr.Yener. TEKELİ

Departments

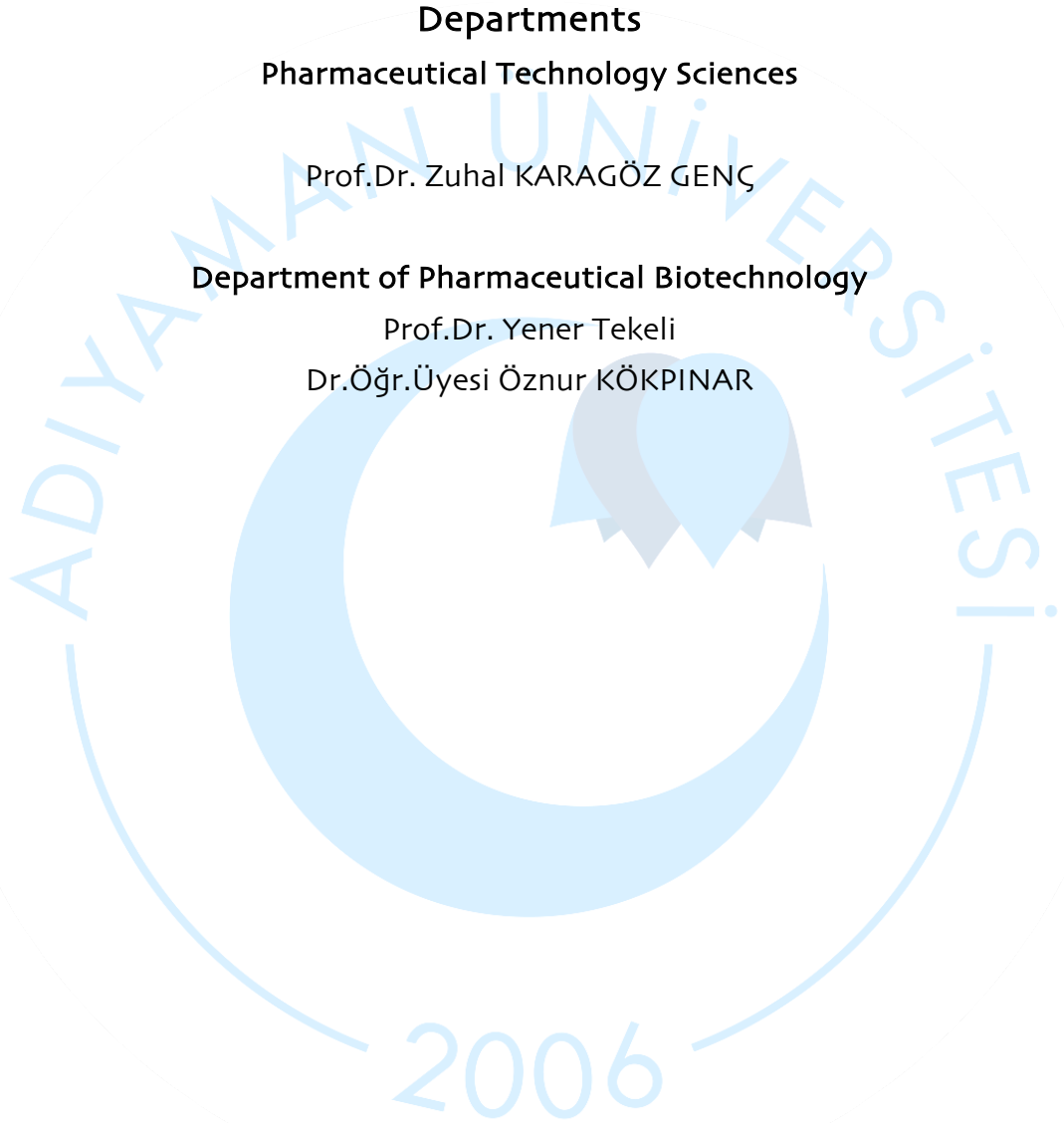
Pharmaceutical Technology Sciences

Prof.Dr. Zuhâl KARAGÖZ GENÇ

Department of Pharmaceutical Biotechnology

Prof.Dr. Yener Tekeli

Dr.Öğr.Üyesi Öznur KÖKPİNAR



Pharmaceutical Basic Sciences

Head of Department

Prof. Dr.Abdulbaki Aksakal

Departments

Department of Analytical Chemistry

Doç.Dr. Ali Serol ERTÜRK

Doç.Dr. Ertuğrul KESKİN

Doç.Dr.Leyla KARADURMUŞ GONZALEZ

Öğr.Gör. Esmanur ÇİÇ

Depaertment of Biochemistry

Dr.Öğr. Üyesi Erkan ÖNER

Dr Öğr. Üyesi Fatma ŞENGÜL BAĞ

Dr Öğr. Üyesi Zehra TEKİN

Department of Pharmaceutical Microbiology

Prof. Dr.Abdulbaki Aksakal

Öğr.Gör. Eda TURAN

Our course information packages*

* Taken from the Bologna course information package and added



Adıyaman Üniversitesi

Faculty of Pharmacy

Pharmacy

Eczacılık Programı

1.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AlİT 101	HISTORY OF TURKISH REVOLUTION AND PRINCIPLES OF ATATURK I	2+0+0	Compulsory	2
ECZ 101	Introduction to Pharmacy and terminology	2+0+0	Compulsory	2
ECZ 103	Anatomy	2+0+0	Compulsory	3
ECZ 105	Physics	2+0+0	Compulsory	2
ECZ 107	General Chemistry	3+0+0	Compulsory	3
ECZ 109	Mathematics	2+0+0	Compulsory	2
ECZ 111	Medical Biology and Genetics	2+0+0	Compulsory	3
ECZ 113	Biostatistics	2+0+0	Compulsory	3
ECZ 115	Plant Biology	2+0+0	Compulsory	2
ECZ 117	Organic Chemistry I	2+0+0	Compulsory	3
TD 101	TURKISH LANGUAGE I	2+0+0	Compulsory	2
YD 101	FOREIGN LANGUAGE I	2+0+0	Compulsory	3
Total ECTS				30

2.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
AlİT 102	Principles of Atatürk and History of Turkish Revolution II	2+0+0	Compulsory	2
ECZ 102	Analytical Chemistry I	3+0+0	Compulsory	4
ECZ 104	Analytical Chemistry Lab. I	0+3+0	Compulsory	2
ECZ 106	Organic Chemistry II	2+0+0	Compulsory	3
ECZ 108	Pharmaceutical Microbiology and Immunology	4+0+0	Compulsory	5
ECZ 110	Pharmaceutical Microbiology Lab.	0+3+0	Compulsory	2
ECZ 112	Physiology	2+0+0	Compulsory	3
ECZ 114	Medical First Aid	2+0+0	Compulsory	2
ECZ 116	History of Pharmacy and Medical Ethics	2+0+0	Compulsory	2
TD 102	Turkish Language II	2+0+0	Compulsory	2
YD 102	Foreign Language II	2+0+0	Compulsory	3
Total ECTS				30

3.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ECZ 201	Analytical Chemistry II	3+0+0	Compulsory	4
ECZ 203	Analytical Chemistry Lab. II	0+3+0	Compulsory	2
ECZ 205	Pharmaceutical Botany	2+0+0	Compulsory	4
ECZ 207	Pharmaceutical Botany Lab.	0+3+0	Compulsory	2
ECZ 209	Biochemistry I	2+0+0	Compulsory	4
ECZ 211	Biochemistry Lab.	0+3+0	Compulsory	2
ECZ 213	Public Health	2+0+0	Compulsory	3
ECZ 215	Pathophysiology	2+0+0	Compulsory	3
ECZ 217	Physical Pharmacy	2+0+0	Compulsory	2
ECZ 249	HORMONE BIOCHEMISTRY	2+0+0	Elective	2
ECZ 251	OCCUPATIONAL HEALTH AND SAFETY	2+0+0	Elective	2
ECZ 253	THE ADVENTURE OF SCIENCE	2+0+0	Elective	2
SEÇ.1	ELECTIVE COURSE POOL (2 COURSES WILL BE SELECTED)	2+0+0	Elective	4
Total ECTS				36

Course Groups				
ECZ 231	Biochemical Calculations	2+0+0	Elective	2
ECZ 233	Antimicrobial Susceptibility Testing	2+0+0	Elective	2
ECZ 235	Cell Biology	2+0+0	Elective	2
ECZ 237	Cancer Biology	2+0+0	Elective	2
ECZ 241	Aromatherapy	2+0+0	Elective	2
ECZ 243	Language mark	2+0+0	Elective	2
ECZ 245	Healthy Nutrition and Anti-aging	2+0+0	Elective	2
ECZ 247	Rational Use of Cosmetics	2+0+0	Elective	2

4.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ECZ 202	Pharmacology I	3+0+0	Compulsory	3
ECZ 204	Pharmacognosy I	2+0+0	Compulsory	2

ECZ 206	Pharmacognosy Lab. II	0+3+0	Compulsory	2
ECZ 208	Pharmaceutical Chemistry I	3+0+0	Compulsory	3
ECZ 210	Pharmaceutical Chemistry Lab. II	0+3+0	Compulsory	2
ECZ 212	Pharmaceutical Technology I	3+0+0	Compulsory	4
ECZ 214	Pharmaceutical Technology Lab. I	0+3+0	Compulsory	2
ECZ 216	Biochemistry II	2+0+0	Compulsory	3
ST 202	Internship I	0+0+0	Compulsory	7
SEÇ.2	ELECTIVE COURSE POOL (1 COURSE WILL BE SELECTED)	2+0+0	Elective	2

Total ECTS 30

Course Groups

ECZ 238	Alternative Medicine	2+0+0	Elective	2
ECZ 228	ORGANIC CHEMISTRY III	2+0+0	Elective	2
ECZ 230	iochemistry of Exercise and Obesity	2+0+0	Elective	2
ECZ 236	Plant Biotechnology İN Pharmacy	2+0+0	Elective	2
ECZ 240	Trace Element Analysis	2+0+0	Elective	2

5.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ECZ 301	Pharmacology II	2+0+0	Compulsory	4
ECZ 303	Pharmacognosy II	2+0+0	Compulsory	3
ECZ 305	Pharmacognosy Lab. II	0+3+0	Compulsory	2
ECZ 307	Pharmaceutical Chemistry II	2+0+0	Compulsory	3
ECZ 309	Pharmaceutical Chemistry Lab. II	0+3+0	Compulsory	2
ECZ 311	Pharmaceutical Technology II	3+0+0	Compulsory	4
ECZ 313	Pharmaceutical Technology Lab. II	0+2+0	Compulsory	2
ECZ 315	Clinical Biochemistry	2+0+0	Compulsory	3
ECZ 317	Medical Supplies	2+0+0	Compulsory	3
ECZ 319	Drug Metabolism	2+0+0	Compulsory	2
SEÇ. 3	ELECTIVE COURSE POOL (1 COURSE WILL BE SELECTED)	2+0+0	Elective	2

Total ECTS 30

Course Groups

ECZ 331	FREE RADICALS AND ANTIOXIDANTS	2+0+0	Elective	2
ECZ 335	Instrumental Analysis Techniques	2+0+0	Elective	2
ECZ 337	Poisonous Plants	2+0+0	Elective	2
ECZ 339	GERMAN I	2+0+0	Elective	2
ECZ 341	DEVELOPMENT OF SCIENTIFIC THOUGHT	2+0+0	Elective	2
ECZ 343	THE BASIC CONCEPTS OF LAW	2+0+0	Elective	2
ECZ 345	LEADERSHIP AND DECISION MAKING	2+0+0	Elective	2
ECZ 347	PROFESSIONAL ENGLISH	2+0+0	Elective	2
ECZ 349	EFFECT OF MOLECULAR STRUCTURE ON BIOAVAILABILIT	2+0+0	Elective	2
ECZ 351	ANALYTICAL VALIDATION	2+0+0	Elective	2

6.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ECZ 302	Pharmacology III	2+0+0	Compulsory	3
ECZ 304	Pharmaceutical Technology III	3+0+0	Compulsory	4
ECZ 306	Pharmaceutical Technology Lab. III	0+2+0	Compulsory	2
ECZ 308	Pharmaceutical Chemistry III	2+0+0	Compulsory	3
ECZ 310	Pharmaceutical Chemistry Lab. III	0+3+0	Compulsory	2
ECZ 312	Pharmacognosy III	2+0+0	Compulsory	3
ECZ 314	Pharmacognosy Lab III	0+3+0	Compulsory	2
ECZ 316	Cosmothology	2+0+0	Compulsory	2
ST 302	Internship II	0+0+0	Compulsory	7
SEÇ.3	ELECTIVE COURSE POOL (1 COURSE WILL BE SELECTED)	2+0+0	Elective	2

Total ECTS 30

Course Groups

ECZ 330	Vitamins and Coenzymes	2+0+0	Elective	2
ECZ 332	Introduction to Heterocyclic Compounds	2+0+0	Elective	2
ECZ 336	Targeted to the New Drug Delivery Systems and Pharmaceuticals	2+0+0	Elective	2
ECZ 338	Ethnobotany	2+0+0	Elective	2
ECZ 340	GERMAN II	2+0+0	Elective	2
ECZ 342	INTRODUCTION TO ELECTROCHEMISTRY	2+0+0	Elective	2

7.Semester Course Plan

Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ECZ 401	Pharmaceutical Toxicology I	2+0+0	Compulsory	3
ECZ 403	Pharmaceutical Technology IV	2+0+0	Compulsory	4
ECZ 405	Pharmaceutical Technology Lab. IV	0+2+0	Compulsory	2
ECZ 407	Pharmaceutical Biotechnology	2+0+0	Compulsory	3

ECZ 409	Pharmaceutical Chemistry IV	2+0+0	Compulsory	4
ECZ 411	Pharmaceutical Chemistry Lab. IV	0+3+0	Compulsory	3
ECZ 413	Radiopharmacy	2+0+0	Compulsory	3
ECZ 415	Pharmacology IV	2+0+0	Compulsory	4
SEC. 4	ELECTIVE COURSE POOL (2 COURSE WILL BE SELECTED)	2+0+0	Elective	4
			Total ECTS	30
Course Groups				
ECZ 431	Nutritional Biochemistry	2+0+0	Elective	2
ECZ 433	Cell Culture and Practice Areas	2+0+0	Elective	2
ECZ 435	Current Heterocyclic Compounds	2+0+0	Elective	2
ECZ 437	Mass spectroscopy	2+0+0	Elective	2
ECZ 445	Process Validation in Pharmaceutical Technology	2+0+0	Elective	2
ECZ 447	Phytotherapy	2+0+0	Elective	2
ECZ 449	Organic Reaction Mechanisms	2+0+0	Elective	2
ECZ 451	APPLIED ENTREPRENEURSHIP	2+1+0	Elective	2
ECZ 453	GENERAL ACCOUNTING	1+1+0	Elective	2
ECZ 455	ELECTROCHEMISTRY IN DRUG ANALYSIS	2+0+0	Elective	2
ECZ 457	CAREER PLANNING	2+0+0	Elective	2

8.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ECZ 402	Pharmaceutical Toxicology II	2+0+0	Compulsory	4
ECZ 404	Pharmaceutical Toxicology Lab.	0+3+0	Compulsory	3
ECZ 406	Pharmacotherapy	2+0+0	Compulsory	4
ECZ 408	CLINICAL PHARMACY AND PHARMACEUTICAL CARE I	1+0+0	Compulsory	4
ECZ 410	CLINICAL PHARMACEUTICAL AND PHARMACEUTICAL CARE APPLICATIONS	0+2+0	Compulsory	2
ECZ 412	Biopharmaceutics and Pharmacokinetics	2+0+0	Compulsory	2
ST 402	Internship III	0+0+0	Compulsory	7
SEC.4	SELECTIVE COURSE POOL (2 COURSE WILL BE SELECTED)	2+0+0	Elective	4
			Total ECTS	30
Course Groups				
ECZ 432	Cosmetic Plants	2+0+0	Elective	2
ECZ 434	Research Methods	2+0+0	Elective	2
ECZ 438	Fundamental Stereochemistry	2+0+0	Elective	2
ECZ 444	Pharmaceutical Nanotechnology	2+0+0	Elective	2
ECZ 446	Introduction to Chromatographic Analysis	2+0+0	Elective	2
ECZ 448	Vaccines and Manufacturing Technologies	2+0+0	Elective	2
ECZ 450	PHARMACOECONOMY	2+0+0	Elective	2
ECZ 454	GENETICALLY CHANGED PLANTS AND BIOGRAPHY	2+0+0	Elective	2

9.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS
ECZ 501	Graduation Project I	3+1+0	Compulsory	15
ECZ 505	CLINICAL PHARMACY AND PHARMACEUTICAL CARE II	2+0+0	Compulsory	2
ECZ 507	CLINICAL PHARMACEUTICAL AND PHARMACEUTICAL CARE APPLICATIONS	0+3+0	Compulsory	2
ST 501	Internship IV	0+16+0	Compulsory	7
SEC.5	ELECTIVE COURSE POOL (2 COURSE WILL BE SELECTED)	2+0+0	Elective	8
			Total ECTS	34
Course Groups				
ECZ 531	Pharmacy Accounting	2+0+0	Elective	2
ECZ 535	Zoonoses	2+0+0	Elective	2
ECZ 537	Patents and Pharmaceutical Drug Development Process	2+0+0	Elective	2
ECZ 539	Structure Determination and Spectroscopic Methods in Drug	2+0+0	Elective	2
ECZ 549	Rational Drug Using	2+0+0	Elective	2
ECZ 551	PROTEINS PRODUCED BY RECOMBINANT DNA TECHNOLOGY	2+0+0	Elective	2
ECZ 565	Sterilization and Safe Work	2+0+0	Elective	2
ECZ 569	Pharmaceutical Contributions dialysis solutions and parenteral solutions	2+0+0	Elective	2
ECZ 571	Clinical Pharmacokinetics and Biopharmaceutics Calculations	2+0+0	Elective	2
ECZ 577	Environmental Toxicology	2+0+0	Elective	2
ECZ 579	COMPUTERIZED MODELING AND DRUG DESIGN	2+0+0	Elective	2
ECZ 581	Pharmaceutical Analysis and Validation	2+0+0	Elective	2
ECZ 583	Food Toxicology	2+0+0	Elective	2
ECZ 585	Quality Assurance and Regulation	2+0+0	Elective	2
ECZ 587	Drug Substances Research and Development Techniques	2+0+0	Elective	2
ECZ 589	NUTROCUTICS	2+0+0	Elective	2
ECZ 591	VOLUNTEERING STUDIES	2+0+0	Elective	2

10.Semester Course Plan				
Course Code	Course Name	T+A+L	Compulsory/Elective	ECTS

ECZ 502	Graduation Project II	3+1+0	Compulsory	15
ECZ 506	Pharmaceutical Legislation	1+0+0	Compulsory	1
ECZ 508	Pharmacy Management	2+0+0	Compulsory	3
ST 502	Internship V	0+16+0	Compulsory	7
SEÇ. 5	ELECTIVE COURSE POOL (2 COURSE WILL BE SELECTED)	2+0+0	Elective	4
			Total ECTS	30
Course Groups				
ECZ 530	Pharmacy Management	2+0+0	Elective	2
ECZ 538	Agricultural and Veterinary Drugs	2+0+0	Elective	2
ECZ 540	Pharmacovigilance	2+0+0	Elective	2
ECZ 544	Drug-Drug Interactions	2+0+0	Elective	2
ECZ 548	PLANT BIOTECHNOLOGY AND ACTIVE SUBSTANCES WITH ECONOMIC VALL	2+0+0	Elective	2
ECZ 566	Hospital Infections Epidemiology	2+0+0	Elective	2
ECZ 568	Clinical Toxicology	2+0+0	Elective	2
ECZ 570	MAJISTRAL DRUG AND PREPARATION TECHNIQUES	2+0+0	Elective	2
ECZ 572	HERBAL TEA	2+0+0	Elective	2
ECZ 574	EFFECTIVE COMMUNICATION TECHNIQUES	2+0+0	Elective	2