

DERS PROGRAMI

I. SEMESTER			
Code	Course Title	Compulsory/Elective	ECTS
BİY141	Medical Biology	Required Courses	3.5
ECZ117	History of Pharmacy	Required Courses	2.5
ECZ119	Pharmacy Terminology	Required Courses	1.0
ECZ121	Basic Laboratory Knowledge	Required Courses	1.5
ECZ123	Pharmaceutical Microbiology I	Required Courses	2.5
FİZ131	Physical	Required Courses	2.5
KİM139	General Chemistry	Required Courses	3.5
KÜL193	Career Planning	Required Courses	2.0
TAR165	Atatürk's Principles and History of Turkish Revolution I	Required Courses	2.0
TÜR125	Turkish Language I	Required Courses	2.0
	Foreign Language Courses		3.0
	Elective Courses		4.0
Sum			30

II. SEMESTER			
Code	Course Title	Compulsory/Elective	ECTS
ECZ124	Pharmaceutical Microbiology II	Required Courses	5.0
ECZ138	Pharmaceutical Botany I	Required Courses	5.0
KİM170	Analytical Chemistry I	Required Courses	6.0
KİM172	Organic Chemistry I	Required Courses	3.0
TAR166	Atatürk's Principles and History of Turkish Revolution II	Required Courses	2.0
TÜR126	Turkish Language II	Required Courses	2.0
	Foreign Language Courses		3.0
	Elective Courses		4.0
Sum			30

III. SEMESTER			
Code	Course Title	Compulsory/Elective	ECTS
BİY245	Molecular Biology	Required Courses	1.5

III. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ECZ237	Instrumental Analysis Applications	Required Courses	2.5
ECZ239	Pharmaceutical Botany II	Required Courses	5.5
ECZ241	Immunology	Required Courses	2.5
KİM271	Analytical Chemistry II	Required Courses	6.5
KİM273	Organic Chemistry II	Required Courses	3.5
KİM283	Biochemistry I	Required Courses	3.5
	Area Elective Courses		4.5
Sum			30

IV. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ECZ240	Medical Terminology and Basic Health Information	Required Courses	2.0
ECZ242	Pathology	Required Courses	2.0
ECZ244	Introduction to Pharmacy and Basic Medical Sciences	Required Courses	4.5
ECZ246	Introduction to Pharmaceutical Technology	Required Courses	2.0
ECZ248	Introduction to Pharmacognosy and Phytopharmacy	Required Courses	5.0
ECZ256	Introduction to Pharmaceutical and Medicinal Chemistry	Required Courses	5.0
KİM284	Biochemistry II	Required Courses	5.0
	Area Elective Courses		4.5
Sum			30

V. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ECZ389	Pharmacognosy and Phytopharmacy I	Required Courses	4.5
ECZ391	Pharmaceutical and Medicinal Chemistry I	Required Courses	4.5
ECZ393	Pharmaceutical Technology I	Required Courses	6.0
ECZ395	Pharmacy and Basic Medical Sciences I	Required Courses	6.0
ECZ905	Clinical Pharmacy I	Required Courses	3.0
ECZ911	Social Pharmacy I	Required Courses	1.5
STJ307	Internship I	Required Courses	1.5
	Area Elective Courses		3.0
Sum			30

VI. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ECZ382	Cosmetology	Required Courses	2.0
ECZ384	Pharmaceutical and Medicinal Chemistry II	Required Courses	5.0
ECZ386	Social Pharmacy II	Required Courses	1.0
ECZ390	Pharmacognosy and Phytopharmacy II	Required Courses	4.0
ECZ394	Pharmaceutical Technology II	Required Courses	6.0
ECZ396	Pharmacy and Basic Medical Sciences II	Required Courses	6.0
ECZ906	Clinical Pharmacy II	Required Courses	3.0
	Area Elective Courses		3.0
Sum			30

VII. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ECZ491	Pharmacognosy and Phytopharmacy III	Required Courses	3.0
ECZ493	Pharmaceutical and Medicinal Chemistry III	Required Courses	3.0
ECZ495	Pharmaceutical Technology III	Required Courses	6.0
ECZ497	Pharmacy and Basic Medical Sciences III	Required Courses	6.0
ECZ907	Clinical Pharmacy III	Required Courses	3.0
ECZ909	Pharmaceutical Biotechnology I	Required Courses	2.0
ECZ913	Social Pharmacy III	Required Courses	3.5
STJ413	Internship II	Required Courses	2.0
	Area Elective Courses		1.5
Sum			30

VIII. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ECZ492	Pharmacognosy and Phytopharmacy IV	Required Courses	3.0
ECZ494	Pharmaceutical and Medicinal Chemistry IV	Required Courses	3.0
ECZ496	Pharmaceutical Technology IV	Required Courses	6.0
ECZ498	Pharmacy and Basic Medical Sciences IV	Required Courses	5.0
ECZ908	Clinical Pharmacy IV	Required Courses	4.0
ECZ910	Pharmaceutical Biotechnology II	Required Courses	2.0
ECZ914	Social Pharmacy IV	Required Courses	4.0

VIII. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
KİM460	Clinical Biochemistry	Required Courses	1.5
	Area Elective Courses		1.5
Sum			30

IX. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ECZ915	Pharmacy Qualifications I	Required Courses	5.0
ECZ917	Graduation Project I	Required Courses	7.0
STJ415	Internship III	Required Courses	6.0
	Specialization Courses		12.0
Sum			30

X. SEMESTER

Code	Course Title	Compulsory/Elective	ECTS
ECZ916	Pharmacy Qualifications II	Required Courses	5.0
ECZ918	Graduation Project II	Required Courses	7.0
STJ416	Internship IV	Required Courses	18.0
Sum			30

Area Elective Courses

Code	Course Title	Laboratory + Practice	ECTS
ECZ231	Food Safety and Analysis (TR)	1 + 0	1.5
ECZ235	Literature Search Methods (TR)	1 + 0	1.5
ECZ251	Evidence Based Pharmacy and Research I (TR)	0 + 1	1.5
ECZ466	Pollens and Health (TR)	1 + 0	1.5
ECZ846	Medical Waste and Environment (TR)	1 + 0	1.5
BİY380	Ethnobotany (TR)	1 + 0	1.5
ECZ219	Nutraceutical Compounds and Products (TR)	1 + 0	1.5
ECZ238	Plants and Herbal Products Available in Pharmacies (TR)	1 + 0	1.5
ECZ252	Evidence Based Pharmacy and Research II (TR)	0 + 1	1.5
ECZ333	Nomenclature of Organic Compounds and Drugs Content (TR)	1 + 0	1.5
ECZ347	Introduction to Cosmetic Herbs (TR)	1 + 0	1.5
ECZ364	Narcotic Hallucinogenic and Poisonous Plants (TR)	1 + 0	1.5

Area Elective Courses			
Code	Course Title	Laboratory + Practice	ECTS
ECZ253	Evidence Based Pharmacy and Research III (TR)	0 + 1	1.5
ECZ334	Clinical Parasitology (TR)	1 + 0	1.5
ECZ344	Drug Analysis of Biological Samples (TR)	1 + 0	1.5
ECZ351	Poisonous Plants of Türkiye (TR)	1 + 0	1.5
ECZ254	Evidence Based Pharmacy and Research IV (TR)	0 + 1	1.5
ECZ342	Drug Production in Türkiye (TR)	1 + 0	1.5
ECZ366	Drug Bioavailability (TR)	1 + 0	1.5
ECZ366	Drug Bioavailability (ENG)(ENG)	1 + 0	1.5
ECZ420	Essential Oils (TR)	1 + 0	1.5
ECZ420	Essential Oils (ENG)(ENG)	1 + 0	1.5
ECZ871	Basic Procedures and Calculations in New Drug Development (TR)	1 + 0	1.5
ECZ377	Evidence Based Pharmacy and Research V (TR)	0 + 1	1.5
ECZ439	Natural Products used in Aromatherapy (TR)	1 + 0	1.5
ECZ455	Basic Approaches in Acute Poisoning (TR)	1 + 0	1.5
ECZ478	Dermacosmetics and Products (TR)	1 + 0	1.5
ECZ378	Evidence Based Pharmacy and Research VI (TR)	0 + 1	1.5
ECZ452	Active Compounds of Veterinary Drugs (TR)	1 + 0	1.5
ECZ476	Pharmaceutical Nanotechnology (TR)	1 + 0	1.5

Elective Courses			
Code	Course Title	Laboratory + Practice	ECTS
BİL150	Fundamentals of Information Technology (TR)	4 + 0	5.0
ECY219	Occupational Health and Safety (TR)	2 + 0	2.0
KÜL195	Volunteer Work (TR)	1 + 2	4.0
KÜL199	Cultural Activities (TR)	0 + 2	2.0
İSN315	Public Relations (TR)	2 + 0	3.0
SOS155	Folkdance (TR)	2 + 0	2.0
TÜR120	Turkish Sign Language (TR)	3 + 0	3.0

Foreign Language Courses			
Code	Course Title	Laboratory + Practice	ECTS

Foreign Language Courses

Code	Course Title	Laboratory + Practice	ECTS
ALM175	German I (ALM)(ALM)	3 + 0	3.0
FRA175	French I (FRA)(FRA)	3 + 0	3.0
İNG187	English I (ENG)(ENG)	3 + 0	3.0
İNG188	English II (ENG)(ENG)	3 + 0	3.0

Specialization Courses

Code	Course Title	Laboratory + Practice	ECTS
ECZ223	Pharmacogenomy (TR)	1 + 0	1.5
ECZ313	Hospital Pharmacy (TR)	1 + 0	1.5
ECZ327	Drug Stability (TR)	1 + 0	1.5
ECZ327	Drug Stability (ENG)(ENG)	1 + 0	1.5
ECZ437	Approved Recombinant Antibodies (TR)	1 + 0	1.5
ECZ836	Basics of Pharmacokinetics (TR)	1 + 0	1.5
ECZ843	Practical Symptomatology for Pharmacists (TR)	1 + 0	1.5
ECZ858	Analysis of Bioelements (TR)	1 + 0	1.5
ECZ862	Perinatal and Pediatric Pharmacotherapy (TR)	1 + 0	1.5
ECZ864	Geriatric Pharmacotherapy (TR)	1 + 0	1.5
ECZ865	Medicinal Teas (TR)	1 + 0	1.5
ECZ872	Innovative Approaches to Antisense Technology (TR)	1 + 0	1.5
ECZ878	Pharmacopoeia Analysis (TR)	1 + 2	3.0
ECZ879	Introduction to Pharmacy Practice (TR)	1 + 2	3.0
ECZ880	Analysis of Chiral Compounds in Pharmaceutics (TR)	1 + 0	1.5
ECZ881	Rational Drug Use (TR)	1 + 0	1.5
ECZ882	Pharmacovigilance and Adverse Drug Reactions (TR)	1 + 0	1.5
ECZ883	Innovative Pharmacology and Drug Screening Strategies (TR)	1 + 0	1.5
ECZ884	Quality Management of Drug (TR)	1 + 0	1.5
ECZ885	Upper Respiratory Tract Diseases and Medications (TR)	1 + 0	1.5
ECZ886	Medical Devices (TR)	1 + 0	1.5
ECZ887	Computer-Aided Drug Design (TR)	1 + 0	1.5
ECZ888	Risk Factors for Natural Products (TR)	1 + 0	1.5
ECZ889	Plants Used in Complementary Medicine (TR)	1 + 0	1.5

Specialization Courses			
Code	Course Title	Laboratory + Practice	ECTS
ECZ889	Plants Used in Complementary Medicine (ENG)(ENG)	1 + 0	1.5
ECZ890	Pharmaceutical Industry (TR)	1 + 0	1.5
ECZ892	Sports Pharmacy (TR)	1 + 0	1.5
ECZ896	High Performance Liquid Chromatography Practices in Pharmace (TR)	1 + 0	1.5
ECZ897	Quality and Accreditation in Testing and Calibration Labora. (TR)	1 + 0	1.5
ECZ898	The Role of Metabolism in Drug Design (TR)	1 + 0	1.5
ECZ899	Research Methods in Psychopharmacology (TR)	1 + 0	1.5
ECZ901	Drug Information (TR)	1 + 0	1.5
ECZ903	Marketing and Export in Pharmaceutical Industry (TR)	1 + 0	1.5
ECZ919	Gastrointestinal Diseases and Medications (TR)	1 + 0	1.5
ECZ921	Cardiovascular Diseases and Medications (TR)	1 + 0	1.5
ECZ923	Metabolic and Endocrine System Diseases and Drugs (TR)	1 + 0	1.5
ECZ927	The Role of the Pharmacist in Dermatology, Dermocosmetics, and Plastic Surgery (TR)	1 + 0	1.5

DERS İÇERİKLERİ
