PROGRAM INFORMATION

Program Name and Degree Awarded: Faculty of Pharmacy/ Pharmacist

Duration of Studies: 5 years

Total Credits / ECTS

Language of Instruction: English

Mission

Our mission is to educate pharmacists who actively participate in both theoretical and practical applications of training; who internalize learning, establish connections between knowledge domains, inquire, research, remain curious, and adopt lifelong learning as a lifestyle; and who remain committed to ethical principles and values.

Vision:
Our vision is to train pharmacists with a scientific perspective, who will serve society by analyzing and addressing healthcare needs, taking part in the improvement of health, and becoming reliable consultants and researchers.

Program Objectives

In global health policies, the pharmacist's role involves consultancy, ensuring the protection of health in accordance with standards, and contributing to disease prevention and monitoring. Preventive health policies, especially in today's 1rofe challenged by crises such as pandemics, assign pharmacists an even more vital role within the core of healthcare delivery.

In developing countries, health literacy levels often correspond to primary school grades 4–5, which places pharmacists at the frontline as advisors. Their support for patients directly contributes to protecting and managing public health. Standards in areas such as patient care, service delivery, drug manufacturing, research and development (R&D), drug licensing, cost control, employee and patient satisfaction, infection control, and management processes highlight the domains where the guidance and expertise of pharmacists are essential.

The advantage of pharmacists being directly accessible to patients is highly significant in our country. The possibility of multiple pharmacists working within community pharmacies, the shortage of academically trained professionals, and the increasing demand in industrial areas such as production, R&D, licensing, marketing, sales, herbal pharmacy, oncology pharmacy, and clinical pharmacy—due to the interdisciplinary 1rofes of pharmacy—have all contributed to the growing demand 1rofess profession. Faculties of Pharmacy in Turkey and the Turkish Republic of Northern Cyprus have thus become attractive academic and 1rofessional fields.

The European University of Lefke, Faculty of Pharmacy, recognizes the increasing need for pharmacists in the next decade and aims to:

- Educate pharmacists with scientific and analytical thinking skills,
- Train individuals capable of following updated scientific 2rofession in English,
- Instill continuous 2rofessional development,
- Develop awareness of societal and 2rofessional health issues and provide contributions to solutions,
- Uphold 2rofessional ethics with fairness and integrity,
- Empower pharmacists to provide consultancy services and take an active role in public health,
- Cultivate creativity, openness to innovation, and the ability to apply technological advancements in science and healthcare to the benefit of the profession.

Learning Outcomes of the Pharmacy Undergraduate Program at the European University of Lefke:
Graduates of the program will be able to:

- Prepare pharmaceutical solutions and perform analyses within the scope of basic pharmaceutical sciences,
- Recognize natural and synthetic pharmaceutical products used in the diagnosis, treatment, and prevention of diseases,
- Calculate dosages and prepare pharmaceutical dosage forms (tablet, capsule, injectable, etc.),
- Learn and develop new drug formulations,
- Understand toxic compounds, drug toxicology, and their analysis,
- Comprehend biochemical mechanisms and the relationship between nutrition, disease, and health,
- Interpret the causes and consequences of metabolic diseases within clinical biochemistry and evaluate laboratory findings,
- Identify medicinal plants and pharmaceutical products, evaluate their advantages and disadvantages, and apply instrumental analyses used in herbal medicine research,
- Apply the principles of rational drug use,
- Analyze drug–drug interactions, pharmacological pathways of applications, and conduct risk assessments,
- Prepare cosmetic products, understand raw material formulations, and production techniques,
- Demonstrate knowledge of human anatomy and physiology, and understand the distribution, absorption, metabolism, and excretion of drugs,
- Apply pharmaceutical deontology,
- Possess the necessary knowledge in first aid,
- Interpret pharmaceutical business management and health law practices.

Curriculum

PHARMACY (M) – ECZACILIK									
1-3-5-7-9 DÖNEM					2-4-6-8-10 DÖNEM				
DERS KODU	DERS ADI	(T-U-L)K	AKTS	DERS TÜRÜ	DERS KODU	DERS ADI	(T-U-L)K	AKTS	DERS TÜRÜ
COMN105	ANATOMY	(3-0-0)3	4	ZORUNLU	**COMN103**	PHYSIOLOGY	(4-0-0)3	4	ZORUNLU
COMN109	MATHEMATICS	(3-0-0)3	5	ZORUNLU	**UHTC02**	TURKISH	(2-0-0)2	2	SEÇMELİ
COMN111	CHEMISTRY	(3-0-0)3	4	ZORUNLU	**UHTC01**	HISTORY	(2-0-0)2	2	SEÇMELİ
COMN121	PHYSICS I	(3-0-0)3	4	ZORUNLU	**UFLE02**	FOREIGN LANGUAGE II	(3-0-0)3	3	SEÇMELİ
UFLE01	FOREIGN LANGUAGE I	(3-0-0)3	3	SEÇMELİ	**PHAR108**	SOCIAL PHARMACY	(2-0-0)2	4	ZORUNLU
PHAR105	INTRODUCTION TO PHARMACY	(2-0-0)2	4	ZORUNLU	**PHAR130**	FIRST AID	(3-0-0)3	5	ZORUNLU
PHAR113	MEDICAL BIOLOGY	(3-0-0)3	6	ZORUNLU	**PHEL01**	TECHNICAL ELECTIVE I	(2-0-0)3	5	SEÇMELİ
					UTEC01	UNIVERSITY ELECTIVE I	(3-0-0)3	5	SEÇMELİ
HSCC301	BIOSTATISTICS	(3-0-0)3	5	ZORUNLU	**COMN114**	BIOCHEMISTRY	(3-0-0)3	3	ZORUNLU
PHEL02	TECHNICAL ELECTIVE II	(3-0-0)3	5	SEÇMELİ	**PHAR218**	PHARMACEUTICAL BOTANY	(2-3-0)3	5	ZORUNLU
PHAR231	ORGANIC CHEMISTRY	(3-0-1)3	5	ZORUNLU	**PHAR230**	PHARMACEUTICAL MICROBIOLOGY	(3-3-0)4	5	ZORUNLU
PHAR233	FOUNDATION IN PHARMACY PRACTICE	(1-3-0)2	2	ZORUNLU	**PHAR232**	PATHOLOGY	(3-0-3)3	4	ZORUNLU
PHAR235	ANALYTICAL CHEMISTRY I	(2-3-0)3	5	ZORUNLU	**PHAR234**	IMMUNOLOGY	(2-2-0)3	4	ZORUNLU
PHAR237	VIROLOGY AND PARASITOLOGY	(3-1-0)3	5	ZORUNLU	**PHAR236**	ANALYTICAL CHEMISTRY II	(2-3-0)3	5	ZORUNLU
PHAR239	PHARMACY REGULATIONS AND ETHICS	(2-0-0)2	3	ZORUNLU	**UFRC01**	UNIVERSITY ELECTIVE I	(3-0-0)3	4	SEÇMELİ
PHAR301	PHARMACOGNOSY I	(2-3-0)3	5	ZORUNLU	**PHAR310**	PHARMACOGNOSY II	(2-3-0)3	5	ZORUNLU
PHAR331	PHARMACEUTICAL TECHNOLOGY I	(3-0-3)4	5	ZORUNLU	**PHAR330**	PHARMACEUTICAL TOXICOLOGY	(2-3-0)3	4	ZORUNLU
PHAR333	PHARMACEUTICAL CHEMISTRY I	(3-3-0)4	5	ZORUNLU	**PHAR332**	PHARMACEUTICAL TECHNOLOGY II	(3-3-0)4	5	ZORUNLU
PHAR335	PHARMACOLOGY I	(3-0-0)3	4	ZORUNLU	**PHAR334**	PHARMACEUTICAL CHEMISTRY II	(3-3-0)4	5	ZORUNLU
PHAR337	CLINICAL BIOCHEMISTRY	(3-0-0)3	6	ZORUNLU	**PHAR336**	PHARMACOLOGY II	(3-0-0)3	4	ZORUNLU
PHAR339	PHARMACEUTICAL BIOTECHNOLOGY AND CELL CULTURE	(3-0-0)3	5	ZORUNLU	**PHAR338**	PHARMACOECONOMICS	(3-0-0)3	3	ZORUNLU
					UFRC02	UNIVERSITY ELECTIVE II	(3-0-0)3	4	SEÇMELİ
PHEL03	TECHNICAL ELECTIVE III	(3-0-0)3	5	SEÇMELİ	**PHAR406**	PHARMACY ADMINISTRATION AND ACCOUNTANCY	(2-0-0)2	3	ZORUNLU
PHAR401	PHARMACOGNOSY III	(2-3-0)3	5	ZORUNLU	**PHAR430**	PHARMACOTHERAPY	(3-0-0)3	4	ZORUNLU
PHAR403	PHARMACEUTICAL TECHNOLOGY III	(2-3-0)3	5	ZORUNLU	**PHEL04**	TECHNICAL ELECTIVE IV	(3-0-0)3	5	SEÇMELİ
PHAR409	CLINICAL PHARMACY	(3-0-0)3	4	ZORUNLU	**PHEL05**	TECHNICAL ELECTIVE V	(3-0-0)3	5	SEÇMELİ
PHAR431	PHARMACEUTICAL CHEMISTRY III	(3-3-0)4	5	ZORUNLU	**PHAR436**	PHYSICAL PHARMACY II	(2-0-0)2	3	ZORUNLU
PHAR433	PHARMACOLOGY III	(3-0-0)3	3	ZORUNLU	**PHAR452**	PHARMACEUTICAL TECHNOLOGY IV	(2-0-3)3	5	ZORUNLU
PHAR435	PHYSICAL PHARMACY I	(2-0-0)2	3	ZORUNLU	**PHEL06**	TECHNICAL ELECTIVE VI	(3-0-0)3	5	SEÇMELİ
UFRC03	UNIVERSITY ELECTIVE III	(3-0-0)3	4	SEÇMELİ	**PHAR532**	THESIS PROJECT II	(0-6-0)3	6	ZORUNLU
UFRC04	UNIVERSITY ELECTIVE IV	(3-0-0)3	4	SEÇMELİ	**PHAR534**	PHARMACY TRAINING	(0-30-0)12	24	ZORUNLU
PHAR531	THESIS PROJECT I	(0-4-0)2	2	ZORUNLU					
PHEL07	TECHNICAL ELECTIVE VII	(3-0-0)3	5	SEÇMELİ					
PHEL08	TECHNICAL ELECTIVE VIII	(3-0-0)3	5	SEÇMELİ					
PHEL09	TECHNICAL ELECTIVE IX	(3-0-0)3	5	SEÇMELİ					
PHEL10	TECHNICAL ELECTIVE X	(3-0-0)3	5	SEÇMELİ					

PHARMACY (Pharm.D.) – FIRST 8 SEMESTERS ARE AS SAME AS Pharm.M. – ECZACILIK									
1-3-5-7-9-11 DÖNEM					2-4-6-8-10-12 DÖNEM				
DERS KODU	DERS ADI	(T-U-L)K	AKTS	DERS TÜRÜ	DERS KODU	DERS ADI	(T-U-L)K	AKTS	DERS TÜRÜ
COMN105	ANATOMY	(3-0-0)3	4	ZORUNLU	**COMN103**	PHYSIOLOGY	(4-0-0)3	4	ZORUNLU
COMN109	MATHEMATICS	(3-0-0)3	5	ZORUNLU	**UHTC02**	TURKISH	(2-0-0)2	2	SEÇMELİ
COMN111	CHEMISTRY	(3-0-0)3	4	ZORUNLU	**UHTC01**	HISTORY	(2-0-0)2	2	SEÇMELİ
COMN121	PHYSICS I	(3-0-0)3	4	ZORUNLU	**UFLE02**	FOREIGN LANGUAGE II	(3-0-0)3	3	SEÇMELİ
UFLE01	FOREIGN LANGUAGE I	(3-0-0)3	3	SEÇMELİ	**PHAR108**	SOCIAL PHARMACY	(2-0-0)2	4	ZORUNLU
PHAR105	INTRODUCTION TO PHARMACY	(2-0-0)2	4	ZORUNLU	**PHAR130**	FIRST AID	(3-0-0)3	5	ZORUNLU
PHAR113	MEDICAL BIOLOGY	(3-0-0)3	6	ZORUNLU	**PHEL01**	TECHNICAL ELECTIVE I	(2-0-0)3	5	SEÇMELİ
					UTEC01	UNIVERSITY ELECTIVE I	(3-0-0)3	5	SEÇMELİ
HSCC301	BIOSTATISTICS	(3-0-0)3	5	ZORUNLU	**COMN114**	BIOCHEMISTRY	(3-0-0)3	3	ZORUNLU
PHEL02	TECHNICAL ELECTIVE II	(3-0-0)3	5	SEÇMELİ	**PHAR218**	PHARMACEUTICAL BOTANY	(2-3-0)3	5	ZORUNLU
PHAR231	ORGANIC CHEMISTRY	(3-0-1)3	5	ZORUNLU	**PHAR230**	PHARMACEUTICAL MICROBIOLOGY	(3-3-0)4	5	ZORUNLU
PHAR233	FOUNDATION IN PHARMACY PRACTICE	(1-3-0)2	2	ZORUNLU	**PHAR232**	PATHOLOGY	(3-0-3)3	4	ZORUNLU
PHAR235	ANALYTICAL CHEMISTRY I	(2-3-0)3	5	ZORUNLU	**PHAR234**	IMMUNOLOGY	(2-2-0)3	4	ZORUNLU
PHAR237	VIROLOGY AND PARASITOLOGY	(3-1-0)3	5	ZORUNLU	**PHAR236**	ANALYTICAL CHEMISTRY II	(2-3-0)3	5	ZORUNLU
PHAR239	PHARMACY REGULATIONS AND ETHICS	(2-0-0)2	3	ZORUNLU	**UFRC01**	UNIVERSITY ELECTIVE I	(3-0-0)3	4	SEÇMELİ
PHAR301	PHARMACOGNOSY I	(2-3-0)3	5	ZORUNLU	**PHAR310**	PHARMACOGNOSY II	(2-3-0)3	5	ZORUNLU
PHAR331	PHARMACEUTICAL TECHNOLOGY I	(3-0-3)4	5	ZORUNLU	**PHAR330**	PHARMACEUTICAL TOXICOLOGY	(2-3-0)3	4	ZORUNLU
PHAR333	PHARMACEUTICAL CHEMISTRY I	(3-3-0)4	5	ZORUNLU	**PHAR332**	PHARMACEUTICAL TECHNOLOGY II	(3-3-0)4	5	ZORUNLU
PHAR335	PHARMACOLOGY I	(3-0-0)3	4	ZORUNLU	**PHAR334**	PHARMACEUTICAL CHEMISTRY II	(3-3-0)4	5	ZORUNLU
PHAR337	CLINICAL BIOCHEMISTRY	(3-0-0)3	6	ZORUNLU	**PHAR336**	PHARMACOLOGY II	(3-0-0)3	4	ZORUNLU
PHAR339	PHARMACEUTICAL BIOTECHNOLOGY AND CELL CULTURE	(3-0-0)3	5	ZORUNLU	**PHAR338**	PHARMACOECONOMICS	(3-0-0)3	3	ZORUNLU
					UFRC02	UNIVERSITY ELECTIVE II	(3-0-0)3	4	SEÇMELİ
PHEL03	TECHNICAL ELECTIVE III	(3-0-0)3	5	SEÇMELİ	**PHAR406**	PHARMACY ADMINISTRATION AND ACCOUNTANCY	(2-0-0)2	3	ZORUNLU
PHAR401	PHARMACOGNOSY III	(2-3-0)3	5	ZORUNLU	**PHAR430**	PHARMACOTHERAPY	(3-0-0)3	4	ZORUNLU
PHAR403	PHARMACEUTICAL TECHNOLOGY III	(2-3-0)3	5	ZORUNLU	**PHEL04**	TECHNICAL ELECTIVE IV	(3-0-0)3	5	SEÇMELİ
PHAR409	CLINICAL PHARMACY	(3-0-0)3	4	ZORUNLU	**PHEL05**	TECHNICAL ELECTIVE V	(3-0-0)3	5	SEÇMELİ
PHAR431	PHARMACEUTICAL CHEMISTRY III	(3-3-0)4	5	ZORUNLU	**PHAR436**	PHYSICAL PHARMACY II	(2-0-0)2	3	ZORUNLU
PHAR433	PHARMACOLOGY III	(3-0-0)3	3	ZORUNLU	**PHAR452**	PHARMACEUTICAL TECHNOLOGY IV	(2-0-3)3	5	ZORUNLU
PHAR435	PHYSICAL PHARMACY I	(2-0-0)2	3	ZORUNLU	**PHEL06**	TECHNICAL ELECTIVE VI	(3-0-0)3	5	SEÇMELİ
UFRC03	UNIVERSITY ELECTIVE III	(3-0-0)3	4	SEÇMELİ	**UFRC05**	UNIVERSITY ELECTIVE V	(3-0-0)3	4	SEÇMELİ
UFRC04	UNIVERSITY ELECTIVE IV	(3-0-0)3	4	SEÇMELİ	**PHAR502**	INTOXICATION CONTROL	(3-0-0)3	5	ZORUNLU
PHAR531	THESIS PROJECT I	(0-4-0)2	2	ZORUNLU	**PHAR504**	BIOLOGICAL PRODUCTS	(3-0-0)3	5	ZORUNLU
PHEL07	TECHNICAL ELECTIVE VII	(3-0-0)3	5	SEÇMELİ	**PHAR506**	INSTRUMENTAL ANALYTICAL METHODS	(3-0-0)3	5	ZORUNLU
PHEL08	TECHNICAL ELECTIVE VIII	(3-0-0)3	5	SEÇMELİ	**PHAR532**	THESIS PROJECT II	(0-6-0)3	6	ZORUNLU
PHEL09	TECHNICAL ELECTIVE IX	(3-0-0)3	5	SEÇMELİ	**PHEL11**	TECHNICAL ELECTIVE XI	(3-0-0)3	5	SEÇMELİ
PHEL10	TECHNICAL ELECTIVE X	(3-0-0)3	5	SEÇMELİ					
PHAR601	INDUSTRIAL PHARMACY PRACTICE	(0-10-0)4	8	ZORUNLU	**PHAR602**	INDUSTRIAL PHARMACY CLERKSHIP	(0-12-0)5	10	ZORUNLU
PHAR603	HOSPITAL PHARMACY PRACTICE	(0-10-0)4	8	ZORUNLU	**PHAR604**	HOSPITAL PHARMACY CLERKSHIP	(0-12-0)5	10	ZORUNLU
PHAR605	COMMUNITY PHARMACY PRACTICE	(0-10-0)4	8	ZORUNLU	**PHAR606**	COMMUNITY PHARMACY CLERKSHIP	(0-12-0)5	10	ZORUNLU
PHAR631	THESIS PROJECT III	(0-6-0)3	6	ZORUNLU					

PHARMACY - COURSE CATALOGUE DESCRIPTIONS

1st Semester

COMN105 Anatomy
Introduction to anatomy, anatomical terminology, movements that occur in the body. Anatomy of the musculoskeletal system (skeletal system, including bones, ligaments and joints, and muscular system), nervous system (central nervous system and peripheral nervous system), circulatory system (cardiovascular system and lymphatic system), respiratory system, digestive system, reproductive system, urinary system, endocrine system and sense organs. Anatomical structures of the organs that are part of these systems, their functions, innervations, and locations discussed in the lecture.

COMN109 Mathematics
This course provides the revision of basic algebra, fractions and partial fractions. Linear equations, arithmetic expressions and simplification of algebraic expressions. Operations with surds and indices. Logarithms and methods for solving logarithmic functions. Techniques for solving quadratic functions. Graph sketching for quadratic equations in Cartesian plane. Solving linear, polynomial and rational inequalities. Parallel and perpendicular lines.

COMN111 Chemistry
The aim of this course is to describe students how substances interact with one another. Students will be informed on how the atom is made up, how atoms come together to make molecules and how molecules can interact, chemical compounds, chemical bonds, chemical equations and reactions, aqueous solutions, periodic table, gases, the electronic structure of the atom and introduction to thermochemistry.

PHAR105 Introduction to Pharmacy
Pharmacy profession and its role in the health care system is covered: The Oath of Pharmacy, Global Competency framework, National and International Professional Associations: TPA, FIP, PGEU., Brief History of Pharmacy, Plants used in therapeutics, traditional herbal medicines, phytotherapy and using macro and microscopic methods for identification, New role of the pharmacist as 'the care giver', Toxicology, environmental toxicology, safe use of drugs, Information on Pharmaceutic Industry, New trends in health Technologies, Role of Analysis in Pharmacy: in the community pharmacy, in the industry. Why we need to analyse in every step of production. Analysing from body fluids, Clinical Pharmacy in Pharmacy Education, What is Pharmaceutic Care

PHAR113 Medical Biology
This course teaches the students the scope of biology, the structure and properties of organisms and the relation with the environment. Topics: Introduction to biology, Chemistry of life, classifications of living beings, properties of living things, kingdoms and general characteristics, organic and inorganic substances of living things, cell, cell and organels, genetics, Tissues, organs and biological systems, Endocrine system, Nervous system.

COMN121 Physics I
This course aims to introduce the fundamental concepts of motion necessary for students of different disciplines and to provide essential background for their profession. The course provides deep understanding about kinematics and dynamics of one dimensional, two dimensional, circular and rotational motion. Also, the course aims to show the students applications of course material to different fields.

2nd Semester

COMN103 Physiology
The aim of the course is to describe the structures and understand the functional mechanisms which enable the human body to maintain a stable internal environment at rest, but which also allow the body to react to change. The subjects of the course includes the potential challenges to homeostasis in the human body and the general adaptations used to overcome them, the function of neurones, brain and spinal cord in controlling the afferent and efferent divisions of the peripheral nervous system, the contraction mechanism of the muscles, the control of the circulation – cardiac output, the defence mechanisms of the body, the delivery of oxygen to the tissue and the elimination of carbon dioxide from the body, digestion and absorption of food, the control of the production of the urine how fuel utilization and growth are regulated by the hormones and the principles of the reproduction.

PHAR108 Social Pharmacy
Introduction to Social Pharmacy, Models of Health Care Systems, Public Health, Health Service Quality, Quality Improvement in Pharmacy, Evidence Based Decision, Trends in Pharmaceutical Industry, what is in the pipe-line, Pharmacy Business/Medication Safety, Purchasing and Managing Inventory, Cents and Sensibility, Four Frames of Leadership, Conflict Management, Stress and Time Management/Anger Control/ Pharmacist Workforce, Health Information for Patients, Information processing by Patients

PHAR130 First Aid
The course emphasises on practical emergency skills. On completion the student will: be able to recognise life-threatening situations, be able to offer vital assistance before more experienced help arrives. Topics covered are Scene assessment, Safety, Chest pain (e.g. heart attack), Dislocations, How to use an AED (automated external defibrillator), Broken bones, Burns, Soft tissue injury, Asthma, Stroke, Seizures, Bleeding.

3rd Semester

HSCC301 Biostatistics
Thıs course is designed to teach basic statistical knowledge and its use in health sciences. Students are expected to learn commonly used biostatistical techniques and use them in study design, data collection and interpretation of the findings.

PHAR231 Organic Chemistry
To enable students to understand the chemistry of carbon, and the classification, properties and reactions of organic compounds. It includes understanding the basic structure and properties of alkanes, alkenes and alkynes, in addition to the principles of stereochemistry and features of aromatic compounds.

PHAR235 Analytical Chemistry I
This course gives examples of typical issues of analytical chemical nature at development and control of pharmaceuticals; describes the electrochemical cell and accounts for its usage for pH determination, the principle for the titrimetric quantitative analysis of pharmaceutical substances; calculates conditions for distribution and separation of drug molecules with liquid-liquid extraction.

PHAR237 Virology and Parasitology
Topics covered include an introduction to the classification, morphology and physiology of microorganisms, primarily organisms that can cause human pathologies, such as bacteria, viruses, fungi, protozoans, parasites, and worms.

PHAR233 Foundation in Pharmacy Practice
This is a community pharmacy practice throughout the whole year 3 hrs / week. At the simulation community pharmacy within the school of pharmacy, the students are initiated to pharmacy by their preceptors.

PHAR239 Pharmacy Regulations and Ethics
Law, rules and regulations in pharmacy practice, regulatory bodies will be covered. The student will have an insight into the ethical context of Pharmacy and pharmaceutical areas

4th Semester

COMN114 Biochemistry
This course is designed to provide knowledge on the functions of carbohydrates, proteins, fats, minerals and vitamins which involves introduction to fundamentals of biochemistry, organic and inorganic molecules, major metabolic pathways, energy metabolism and pathological cases concerning the human metabolism.

PHAR218 Pharmaceutical Botany
Students will learn the fundamentals of general and special botany with special emphasis on medicinal plants. The knowledge and skills obtained will serve as the basis for courses Pharmacognosy I and Pharmacognosy II. Plant physiology is focused on the plant biochemistry, physiology of flow of energy and compounds transformations and mechanisms of influencing of the production of special metabolism compounds. Anatomy and morphology part extends the knowledge of high/secondary school botany to be applicable in pharmaceutical practice.

PHAR230 Pharmaceutical Microbiology
This course covers the general study of microbiology and its relevance to pharmacy. Topics covered; introduction to microbiology including history and its need in pharmacy, general principals of microbial concepts including terminology, host parasite relationship and normal flora, pathogenicity of microorganisms, principals of infectious disease, bacterial structure and classification, bacterial growth, metabolism and its genetics, important pathogenic bacteria and mechanisms of disease production, fungi, protozoa and helminthes, and virology. Also, antiseptics, antibiotics, disinfectant and sterilization techniques will be covered and immunology is offered in order to prepare the students for better understanding of drug pharmacokinetics and disease processes. Microbiological controls needed in the finished pharmaceutical products is also covered.

PHAR232 Pathology
An introduction to human pathology – the study of disease. Students will be introduced to general mechanisms of disease (e.g. inflammation, injury, neoplasia, disturbed hemodynamics). These general processes will then be discussed as they apply to specific diseases of organ systems.

PHAR234 Immunology
A study of the molecular and cellular interactions and principles of the immune system. Topics include immune system development, humoral & cell-mediated immunity, disease and treatments involving immunization, immunodeficiency, and autoimmunity

PHAR236 Analytical Chemistry II
This course gives the basic principles for the UV-Vis absorption spectroscopy, fluorometry, atomic absorption and atomic emission and accounts for carrying out quantitative and qualitative analyses within the pharmaceutical field, the basic principles for liquid chromatography, thin layer chromatography and gas chromatography; accounts for quantitative analysis of drug molecules with chromatographic technologies, accounts for the aim of validation of an analytical method and defines the most common concepts that are included in the validation, familiarises with basic experimental methodology in the area of drug analysis

5th Semester

PHAR301 Pharmacognosy I
Pharmacognosy – introduction, classification of natural products, Carbohydrates, Lipids, Amino acids, peptides, and proteins.

PHAR331 Pharmaceutical Technology I
The programme has been designed to enable the students to develop a comprehensive understanding and knowledge in the area of pharmaceutical formulation development and its underpinning science and processing technologies. Particularly notable features include theoretical and practical aspects of advanced analytical methods, Process Analytical Technology (PAT), and Quality by Design (QbD). The programme will also facilitate the development of professional skills such as good laboratory practice as well as transferable skills. Strong interdisciplinary approach to widen your thinking horizons and improve professional abilities is the characteristics of the course.

PHAR333 Pharmaceutical Chemistry I
The course focuses on the pharmaceutical contexts, most important substance classes in organic chemistry (e.g. haloalkanes, alcohols, amines, alkenes, alkynes, aromatics, aldehydes, ketones, carboxylic acids and carboxylic acid derivatives) with respect to their structure and their chemical properties. The interplay between structure and function are discussed for a greater understanding of chemical reactions and processes that take place in our environment.

PHAR335 Pharmacology I
The course comprises information on Pharmacokinetics, the modes of action of drugs with special emphasis on their interactions with different target proteins at the cellular level. The molecular function of ion canals and different types of receptors is discussed from a pharmacological perspective.

PHAR337 Clinical Biochemistry
This course applies biochemistry concepts to solve clinical scenarios, the biochemical changes in disease states. It gives the information on how to interpret the lab results of patients.

PHAR339 Pharmaceutical Biotechnology and Cell Culture
Introduction and basic principles of pharmaceutical biotechnology, importance of recombinant DNA technology in pharmaceuticals, mechanisms and causes of protein destabilization, methods used to evaluate protein pharmaceuticals, biotechnology-based pharmaceuticals

and formulation approaches to protein stabilization, developments in protein drug delivery, regulatory aspects of biotechnology-based pharmaceuticals, principles of cell culture, preparation, selection, and maintenance of cell culture lines.

6th Semester

PHAR310 Pharmacognosy II
Pharmacognosy-Glycosides, Coumarins, Flavonoids, Saponins, Essential oils, balsams, and resins. Plants that have these moieties. Therapeutic uses of these plants. How to prepare these herbal medicines will be discussed.

PHAR330 Pharmaceutical Toxicology
The student will acquire a basic knowledge of the nature and magnitude of drug toxicity, diagnostic complications, mechanisms of drug toxicity, how individual risk is modulated by pharmacological, physiological and pathophysiological factors, and basic approaches for the evaluation of drug toxicities. Emphasis is placed upon toxicities due to electrophilic and free radical reactive intermediates and oxidative stress, while overlap with receptor-mediated mechanisms covered in courses in pharmacology and therapeutics is minimal. Further in the course learned principles are applied in detail to a limited number of clinically relevant examples of serious drug toxicities, including liver and kidney damage, neurodegeneration, teratogenesis, carcinogenesis and immune-mediated hypersensitivity reactions.

PHAR332 Pharmaceutical Technology II
Hands-on experience of using technologies such as supercritical fluid processing, hot melt extrusion, nanomilling and characterisation techniques such as X-ray diffractometry, scanning electron microscopy, NIR or NMR, and Raman spectroscopy and online rheology

PHAR334 Pharmaceutical Chemistry II
Further, organic-chemical reactions (e.g. substitution, elimination, addition to the alkene and the alkyne, electrophilic aromatic substitution, carbonyl group reactions, carboxylic acid derivatives reactions, oxidation and reduction) are discussed together with the associated reaction mechanisms. Naming by means of rational chemical nomenclature (IUPAC), including some common names, is an important part of the course

PHAR336 Pharmacology II
Interactions with other drugs, pharmacological effects, side effects and therapeutic uses of drugs are described, as well as how drugs are absorbed, distributed, metabolised and eliminated.

PHAR338 Pharmacoeconomics
This introductory course in pharmacoeconomics is designed to prepare graduate pharmacists who can competently involve in pharmacoeconomic decision making. Students will be able to describe and use different methods of pharmacoeconomic evaluation and effectively analyze and evaluate different pharmacoeconomic studies. This course also introduces students with the basic concepts in economics.

7th Semester

PHAR401 Pharmacognosy III
Pharmacognosy- Plants that have Alkaloids , Vitamins, Antibiotics will be covered giving their structures, how to identify them and methods to extract these moieties. Also their use in phytotherapy will be discussed.

PHAR403 Pharmaceutical Technology III
Hands-on experience of pharmaceutical processes and also computer modelling techniques. The strong research component of the course will provide the students with the opportunity to demonstrate their scientific creativity and originality in applying their new-found knowledge, understanding and skills to develop ideas that are essential to the good pharmaceutical scientist.

PHAR409 Clinical Pharmacy
The course includes working methods and tools for clinical pharmaceutical work. The student works with and discusses real and complex patient cases with a focus on drug-related problems. The practice is carried out within the inpatient care and includes rounds, auscultation with health-care personnel and patient communication.

PHAR431 Pharmaceutical Chemistry III
Relative acid strength, base strength and reactivity are discussed based on concepts such as nucleophilicity, electrophilicity, inductive effect, resonance, resonance effect, solvation and steric effects. Stereochemistry and how isomers relate to each other are also discussed during the course. Characterisations of molecules using spectroscopic techniques (IR, MS and NMR) are included, both in theory and in practice.

PHAR433 Pharmacology III
The students learn about radionuclides and their use in drug development and diagnosis and treatment of diseases. Having completed the course, the student shall have a knowledge of the modes of action of drugs, above all at the molecular level, effects and side effects of drugs on the human organism, pharmacological methodology and mathematical models for analysis of experimental data, absorption, distribution, metabolism and elimination of drugs. The student shall have the knowledge of pharmacology needed to contribute in different ways to safe and rational use of drugs in the community**.**

PHAR435 Physical Pharmacy I
The course Physical Pharmacy I was designed to provide the students with a wide background in physical pharmaceutical principles essential for their pharmacy study in the next years. The course also presents basic understanding of types of disperse systems and methods of their preparation and assessment. The course aims at introducing important pharmacy-related physical principles in areas such as states of matter, phase equilibrium and phase rule, solutions of non-electrolytes, adsorption, solubility, buffers and isotonic solutions and rheology.

8th Semester

PHAR406 Pharmacy Administration and Accountancy
Topics on book keeping and accountancy will be covered.

PHAR430 Pharmacotherapy
Pharmacotherapy courses are aimed at enabling the pharmacy student to gather all the previous courses knowledge and use it in the benefit of the patient. Pathophysiology of each disease state and diagnosis will be followed by therapeutic measures. Interpretation of lab results and monitoring the outcomes from the therapy is also an important target of this course. The student will be expected to identify discriminating data and analyse patient-specific information at an advanced level, make independent therapeutic decisions, and recommend drug therapy monitoring and patient evaluation.

PHAR436 Physical Pharmacy II
This course presents further understanding of types of disperse systems and methods of their preparation and assessment. The course aims

at introducing important pharmacy-related physical principles in areas such as states of matter, phase equilibrium and phase rule, solutions of non-electrolytes, adsorption, solubility, buffers and isotonic solutions and rheology.

PHAR452 Pharmaceutical Technology IV
Hands-on experience of pharmaceutical processes and also computer modelling techniques. The strong research component of the course will provide the student with the opportunity to demonstrate scientific creativity and originality in applying emerging knowledge, understanding and skills to develop ideas that are essential to the good pharmaceutical scientist.

PHARMACY.M

9th Semester

PHAR531 Thesis Project I
A research project; investigation on a therapeutic/medical/medicinal conflict; research on the administrative problems of a hospital/clinical/community pharmacy. These research /investigation can be local/national/international level. The student pharmacist, following the oral presentation of his/her work to fellow student pharmacists and the faculty of the school of pharmacy, hands the research printed in a thesis form to the School administration.

10th Semester

PHAR532 Thesis Project II
A research project; investigation on a therapeutic/medical/medicinal conflict; research on the administrative problems of a hospital/clinical/community pharmacy. These research /investigation can be local/national/international level. The student pharmacist, following the oral presentation of his/her work to fellow student pharmacists and the faculty of the school of pharmacy, hands the research printed in a thesis form to the School administration

PHAR534 Pharmacy Training
This is an advanced pharmacy practice course at a community pharmacy.

PHARMACY.D

9th Semester

PHAR531 Thesis Project I
A research project; investigation on a therapeutic/medical/medicinal conflict; research on the administrative problems of a hospital/clinical/community pharmacy. These research /investigation can be local/national/international level. The student pharmacist, following the oral presentation of his/her work to fellow student pharmacists and the faculty of the school of pharmacy, hands the research printed in a thesis form to the School administration.

10th Semester

PHAR532 Thesis Project II
A research project; investigation on a therapeutic/medical/medicinal conflict; research on the administrative problems of a hospital/clinical/community pharmacy. These research /investigation can be local/national/international level. The student pharmacist, following the oral presentation of his/her work to fellow student pharmacists and the faculty of the school of pharmacy, hands the research printed in a thesis form to the School administration

PHAR502 Intoxication Control
Poisoning from pharmaceuticals, industrial chemicals, pesticides, chemical products and natural toxins is a significant global public health problem. Accidents, environmental pollution and substance dependence come to the fore as sources of poisoning. In this course, it emphasizes the pharmacist's role in providing poison information, participating in emergency response teams, managing antidotes, and educating the public on poisoning prevention. How national and international organizations such as poison control centers are established and their functions will be examined on the basis of the World Heaith Orgamization Guidelines.

PHAR504 Biological Products
The aim of this course is to convey basic knowledge and a broad understanding of the types of biological pharmaceuticals, biopharmaceuticals, also named “biologics”, that exist today, how targets for biologics are identified, how they are developed and produced, and molecular and cell biological principles that are relevant for the process of developing and producing biopharmaceuticals.

PHAR506 Instrumental Analytical Methods
This course includes instrumental analytical methods such as spectrophotometry, enzyme linked immunoassay (ELISA), high pressure liquid chromatography (HPLC), gas spectrometer- mass spectrometer (GS-MS) that methods’ develops and applies, technologies and strategies in order to gain information on chemical compounds and processes. Principles of organic, inorganic and biological chemistry are supported by analytics, and the ever-increasing demand of society to make important decisions based on watertight data and validated methods requires the reinforcement of analytical education and research.

11th Semester

PHAR601 Industrial Pharmacy Practice
This course bridges pharmaceutical sciences with real-world applications in drug manufacturing, quality assurance, and regulatory compliance within the pharmaceutical industry. Course is covered the industrial drug manufacturing process from formulation to packaging, apply GMP, GLP, and quality assurance standarts, industrial workflows. Develop practical skills for employment in the pharmaceutical industry.

PHAR603 Hospital Pharmacy Practice
This course is designed to provide both theoretical foundations and practical competencies for pharmacy practice in clinical and hospital settings. The course covers functions and organisation of hospital pharmacy services, medication management, inventory control, patient counselling, rational use of medication in hospital settings, and collaboration with healthcare professionals in multidisciplinary care teams.

PHAR605 Community Pharmacy Practice
This course focuses on real-world skills, patient interaction, business management, and professional responsibility in a community setting. The course has some aim for students providing pharmaceutical care in community pharmacy settings, counselling patients effectively on prescription and OTC medications, performing basic health screenings and supporting chronic disease management, understanding legal,

ethical, and business aspects of pharmacy ownership and practice, engaging in public health and medication safety initiatives.

PHAR631 Thesis Project III
Thesis Project III represents the final phase of the student pharmacist's research journey and serves as a capstone to the Pharm.D curriculum. It allows students to consolidate, refine, and extend the work completed in Thesis Projects I and II. Emphasis is placed on advanced data interpretation, critical evaluation of findings, and dissemination of results through scholarly writing and professional presentation.
This course encourages students to translate research into practice by formulating evidence-based recommendations that contribute to therapeutic decision-making, pharmacy practice improvement, or healthcare policy enhancement. Under faculty supervision, students may also prepare their thesis for publication in peer-reviewed journals, but they will definitely prepare for presentation at scientific conferences.

12th Semester

PHAR602 Industrial Pharmacy Clerkship
The Industrial Pharmacy Clerkship provides hands-on experience in the pharmaceutical industry, where students engage in real-world applications of drug manufacturing, formulation development, quality control, quality assurance, regulatory compliance, and Good Manufacturing Practice (GMP). The goal is to familiarize student pharmacists with the professional roles, technologies, and regulatory frameworks that govern pharmaceutical production and supply.

PHAR604 Hospital Pharmacy Clerkship
The Hospital Pharmacy Clerkship provides student pharmacists with hands-on experience in the operations of hospital pharmacy services. Students will participate in drug procurement, storage, compounding, dispensing, and clinical services, while also gaining exposure to interprofessional collaboration and patient care. The clerkship emphasizes safe medication practices, therapeutic monitoring, and the pharmacist's role in hospital-based healthcare delivery.

PHAR606 Community Pharmacy Clerkship
The Community Pharmacy Clerkship introduces student pharmacists to the everyday responsibilities of community-based pharmacy practice. It bridges academic learning with real-life pharmacy service by placing students in community pharmacy settings where they engage in patient counseling, dispensing, OTC recommendations, minor ailment management, and pharmacy business operations. The experience aims to strengthen communication, professionalism, and pharmaceutical care delivery in the primary care environment.

UNIVERSITY HTC ELECTIVE COURSES

UHTC02 Turkish
To show the characteristics and rules of operation of Turkish language with examples; to give the students the ability and habit to express their feelings and thoughts accurately and effectively; developing vocabulary through written and oral texts; The aim of this course is to teach the rules of reading texts or the programs they listen to correctly. COMN106 course aims to provide basic Turkish reading, speaking and writing skills for international students.
Bu derste, yazı dilinin ve yazılı iletişimin temel özellikleri, yazı dili ile sözlü dilin arasındaki farklar, Yazılı ve sözlü anlatım; öznel anlatım, nesnel anlatım, paragraf türleri, metnin tanımı ve metin türleri, yazılı anlatım, yazılı anlatım, planlı yazma aşamaları (konu, konunun sınırlandırılması, amaç, bakış açısı, ana ve yan düşüncelerin belirlenmesi, yazma planı hazırlama, kağıt düzeni) bilgilendirici metinler

üzerinde kuramsal bilgiler: örnekler üzerinde çalışmalar ve yazma uygulamaları, bir metnin özetini ve planını çıkarma, yazılı uygulamalardaki dil ve anlatım yanlışlarını düzeltme ve sözlü anlatım uygulamaları işlenmektedir.

UHTC01 History
The course provides a detailed exposure on the history of the construction of the Turkish Republic under the light of Kemal Atatürk's principles this course is designed for Turkish speaking students. COM108 is designed for non-Turkish speaking foreign students. The aim of the course is to introduce a brief history of Turkish Republic and Cyprus. Social, economic and political aspects and effects of Western Civilization on Turkey and Cyprus. Relations with Middle East.
Bu derste, Türk Ulusu'nun kurtarıcısı, Cumhuriyetin kurucusu, dünyanın ender yetiştirdiği asker ve devlet adamı, devrimci ve düşünür Atatürk'ün hayat hikayesinin yanı sıra, bir imparatorluğun çöküşü, Türk Ulusu'nun Atatürk'ün önderliğinde kahramanlık destanları yaratarak bağımsızlığını savunuşu, genç ve dinamik Türkiye Cumhuriyeti'nin kuruluşu ve bu Cumhuriyetin hızla yükselişi "Türk İnkılabı" adı verilen büyük atılım ve değişikliklerin ne kadar zamana sığdırıldığı ve bu inkılapların önemi vurgulanmakta ve Atatürk İlkeleri anlatılmaktadır.

UTEC01 Computer Literacy
This course is an introductory course to computers and their application; the basic components of computers; Random Access Memory (RAM), Read Only Memory (ROM), Central Processing Unit (CPU) and relationship between these hardware are introduced. Operating systems, application software (word processor, power point), Utility Software are introduced. Internet, network connections and the types, digital security and ethics are covered. Social networks and other web-based applications are introduced.

UNIVERSITY PHILOSOPHY ELECTIVE COURSES (UPEC)

FOREIGN LANGUAGE ELECTIVE COURSES

UFLE01 Academic English I
This course is intended for academically oriented students and it aims to bridge the gap between general and academic English. The course aims at developing the skills required for academic study, including note-taking, essay writing, as well as teaching strategies for undertaking research and dealing with unfamiliar academic vocabulary. The course also aims at teaching the features of guided writing, reading strategies such as predicting, skimming, and scanning. At the end of this course the students are expected to be able to; develop strategies, to improve the ability to comprehend complex academic texts, to develop strategies to produce more coherent writing and, make clear, appropriate, relevant notes from academic texts, and to adopt various approaches to deal with new or unknown vocabulary by practising effective use of dictionaries, and through making effective vocabulary records.

UFLE02 Academic English II
This course is the continuation of the COMN191 Academic English I course. Similar issues are focused on as in the former course with a higher tone of language. This course integrates all four language skills and teaches students how to integrate skills and content in real-world academic contexts. High-interest and intellectually-simulating authentic materials are used to familiarize students with academic content. The course also aims at developing the ability to participate in exchanges of information and opinions in the context of the specific field, and to write instructions, descriptions and explanations about topics in the related field. Extra importance is put on teaching student's

terminology related to the specific field. (pre-requisite: COMN191)

TECHNICAL ELECTIVE COURSES (PHEL)

PHEL01Communication Skills in Community Pharmacy
At the completion of the course the student will be able to Counsel patients to improve understanding of medication information and compliance with prescribed regimen Retrieve, analyse, and interpret the professional, lay, and scientific literature to provide drug information to health care providers, patients, and to the public. Evaluate patient information (signs, symptoms, history) and results of monitoring tests to determine and document achievement of desired outcomes, to recommend appropriate therapy, and to assess for adverse reactions. Exhibit professional behaviours including self-directed learning, respect and compassion for patients, honesty, integrity, and respect in interactions with other health care providers

PHEL02 Public Health
This course aims to provide students with an understanding of the definition of health, the importance of public health, the determinants of health, the health status measures; the role of epidemiology in public health, the epidemiology of chronic and infectious diseases, the promotion of public health, the protection of health, the levels of diseases prevention, the global health, the environmental health and the occupational health.

PHEL03 Over the Counter Drugs
Drugs that can be bought without a presciption are named Over The Counter (OTC) Drugs. These drugs are the ones that one can go and buy on their own. Since OTC drugs can be purchased without a prescription it is a pharmacist's utmost responsibility to ensure the proper purchase and use of OTC's by the patients. In most of the developed countries there are OTC formularies to guide the pharmacists. In this elective course, OTC drug prescribing by the pharmacists, guidelines for OTC drug use, which drugs are considered OTC, preparation of OTC lists, and individual OTC drugs, their effects, side effects will be covered. Special emphasis is placed on side effects of OTC's and concomitant use of OTC's with other drugs. OTC Drug lists are prepared and published and updated by heath authorities of countries.

PHEL04Cosmetics Science
Cosmetic science aims to describe the anatomy and functions of skin and related Structures, correlates these structures with cosmetic products, to indicate the basic ingredients used for the preparation of cosmetic products and explain their function and properties, and the classification, preparation and usage of cosmetic products used on the skin, hair, nails, eyes, lips and mouth . The legislation on cosmetic manufacturing, safety assessment, marketing and promotion are discussed.

PHEL05 Clinical Pharmacy II
The students document patient cases continuously during the practice. During the course, the student may also train: - the ability to communicate with patients, physicians and other health-care personnel - the ability to assess the need of drug-related information to patients, physicians and other health-care personnel - the ability to search, sort and review scientific literature critically - oral presentation - decision making - independent thinking.

PHEL06 Phytotherapy
It gives a basic idea about treatment using medicinal plants or what is known as phytotherapy. It includes: definition of phytotherapy, terminology; historical background, available dosage forms in the market, toxicity, precautions, regulation and legislation.

PHEL07 Biopharmacy and Pharmacokinetics

Biopharmacy and pharmacokinetics involves the rational design and management of biopharmacetics to ensure that the required biological and physical performances of the therapeutic agent are attained. This course aims to ease the perceived difficulties of this subject and, hopefully, illustrate the significance of pharmaceutical approaches of bipharmacy and the unique role of the pharmacist in the development of medicines.

PHEL08 Microbial Control of Pharmaceutics

It is aimed to convey information about the structures and pathogenesis mechanisms of agents that threaten public and/or individual health, pose a high risk or cause frequent infections, and the pharmacology of the drugs used by these agents. The main aim of this course is to teach; Importance of microbial contamination in pharmaceutical industry, methods for investigating the quality of sterile and non-sterile pharmaceuticals, acceptance criteria for microbiological quality of non-sterile drugs and antimicrobial effectivenes and disinfectant efficacy tests used in pharmaceutical industry.

PHEL09 Physicochemical Control and Pharmaceutics

Pharmacopieal methods and Reference Standards, Physicochemical Properties and Controls by Pharmacopieal Methods, physicochemical and instrumental method analysis of pharmaceutical dosage forms, controlling quality control of drugs by the physiochemical-related methods, Pharmaceutical calibration and qualification, validation of analytical methods, Quality control and release of raw materials and finished products, Impurities in Drug substance and final product and their control, stability studies and forced degradation studies of pharmaceuticals

PHEL10 Special Topics in Clinical Pharmacy

This course provides a study of clinical pharmacy and its application to patient care. It explores the role of clinical pharmacists in promoting rational drug use and the systematic approach to solving drug-related problems. Through case studies covering various diseases and conditions, students will apply clinical pharmacy principles, focusing on patient-oriented care and the appropriate use of pharmaceutical dosage forms.

HTE451 Health and Technology

Within the scope of this course, technological developments in the field of health or science from the past to the present and what are the contributions of these developments to humanity will be covered. This course aims to learn the use of technological developments in the field of health.

HTE452 Management in Healthcare

The course introduces the healthcare and healthcare organizations; definitions of management; the functions in management; the roles of managers in delivery of healthcare services; the behavioural theories in organization of healthcare services; the importance of quality management in healthcare organizations; the role of technology in management; the future of management in healthcare services; financing

healthcare services and the measures taken for reducing the disparities in health and access to healthcare services.

OSHE201 Occupational Safety and Health
This course provided information on the theory and history of occupational health and safety, and enforcement of laws that address occupational safety and health globally. It also aims to guide students in understanding the roles and responsibilities of workers, unions and employers. This course also reviews other safety related issues and aspects of recognizing, evaluating, and understanding control of safety and health hazards in the workplace.

COMN115 Sociology
The course makes an introduction to the discipline of sociology and provides an outline of the major sociologists, sociological paradigms and areas of sociological inquiry. It aims at developing students' awareness about the society in which they live, with a due emphasis on sociological perspective and sociology as a scientific discipline. Thus, the course helps the students to develop a sociological outlook and understand what such outlook retains in terms of the founding theories, main sociological approaches, and related discussions in those areas ranging from everyday life, culture and globalization to social stratification and mobility

UNIVERSITY FREE ELECTIVE COURSES

CFE201 Leadership and Management
In this course, an analysis of theoretical and practical knowledge is made. In this context, basic social and psychological factors associated with the concept of leadership and current theories will be explained and how theoretical knowledge can be applied in terms of leadership and management functions in organizations will be emphasized. The aim of the course is to provide students with a deep understanding of leadership and management concepts and to develop their own leadership skills.

CFE202 Environment and Sustainable Development
This course provides information on nature and environment along with the sustainability concept, as well as guides students to gain awareness about environmental problems. It aims to inform students about the daily practices that will lead to a more sustainable living. Additionally, knowledge about the global and social effects of all practices on health, environment, safety, and current issues related to the field of their area of study and awareness of the legal consequences of their specific area of practices to solutions are covered.

Laboratory and Equipment Capacity (if available):
There are 6 laboratories—Pharmaceutical Technology, Pharmaceutical Chemistry, Pharmaceutical Botany, Pharmacognosy, Pharmaceutical Microbiology, and Analytical Chemistry—as well as 1 training pharmacy.

Career Opportunities:
Our graduates may work as Community Pharmacists, Hospital Pharmacists, Clinical Pharmacists, or as pharmacists in the relevant

departments of the Ministry of Health. They may also work in the pharmaceutical industry in areas such as manufacturing, formulation, quality control, regulatory affairs, and medical departments, as well as in the cosmetics industry and pharmaceutical warehouses.

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