EASTERN MEDITERRANEAN UNIVERSITY

FACULTY OF PHARMACY

Pharmaceutical Sciences PhD Program

Student Handbook

2025-2026 Academic Year

Email address
pharmacy@emu.edu.tr

Visit Our Website
pharmacy.emu.edu.tr

Dean's Message:

Dear Students and Colleagues,

We are delighted to have you join the Eastern Mediterranean University (EMU) Faculty of Pharmacy PhD program in pharmaceutical sciences. Established in 2011, EMU Faculty of Pharmacy continues its journey in educational and research perspectives of pharmaceutical sciences. Our initiative targets curious individuals dedicated to enhancing scientific understanding and tackling intricate issues in drug discovery, development, and patient treatment. Pharmaceutical sciences lie at the confluence of chemistry, biology, medicine, and technology. By engaging in thorough coursework, collaborative research across disciplines, and receiving dedicated mentorship from our esteemed faculty, our doctoral students are prepared to evolve into autonomous researchers, creative thinkers, and forthcoming leaders in academic fields, industry, regulatory science, and healthcare.

Please visit our website at https://pharmacy.emu.edu.tr/en for the faculty and the Pharmaceutical Sciences PhD program website at: https://www.emu.edu.tr/en/programs/pharmaceutical-sciences-doctoral-program/1761.

We impulse you to actively participate in the academic and research opportunities presented to you, to push current limits, and to make significant contributions to the scientific community. We are thrilled to assist you in your quest for excellence and innovation in pharmaceutical sciences.

On behalf of the faculty and staff, we greet you as part of our academic community and wish you all the best in your doctoral journey.

Prof. Dr. H. Ozan Gulcan

Dean

Faculty of Pharmacy

Eastern Mediterranean University

PhD Program Coordinator's Message:

Dear PhD Students,

Welcome to the Pharmaceutical Sciences Doctoral (PhD) Program at the Eastern Mediterranean University (EMU) Faculty of Pharmacy. On behalf of our program team, we are very pleased to have you join our academic community.

This Student Handbook was prepared to support you throughout your doctoral journey. It provides an overview of the program structure, academic requirements, key milestones (including the qualifying exam, seminar, and thesis process), and the procedures that will guide your progress. We encourage you to use it as your primary reference and to reach out whenever you need clarification or guidance.

Doctoral training is both challenging and rewarding. It requires commitment, critical thinking, and persistence but it also offers a valuable opportunity to develop your scientific expertise, strengthen your research skills, and contribute meaningfully to the advancement of pharmaceutical sciences. At EMU, you will find a multidisciplinary environment and dedicated faculty mentorship to support your development as an independent researcher and professional.

We encourage you to engage actively in coursework, research activities, seminars, and collaborations, and to make the most of the scientific and academic opportunities available through our faculty and the wider university community.

We wish you a productive, inspiring, and successful doctoral experience.

Kind regards,
Asst. Prof. Dr. Leyla Beba Pozharani
PhD Program Coordinator, Pharmaceutical Sciences
Faculty of Pharmacy, Eastern Mediterranean University (EMU)

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1. Introduction

This handbook is intended to provide guidance and information about Eastern Mediterranean University Faculty of Pharmacy. The information provided in this document is subject to change. The document will be updated on the Faculty website in case needed.

2. About the Faculty

Faculty of Pharmacy was established in 2011-2012 academic year. The Faculty offers M.Pharm. Program and Pharm.D. Program that is composed of 10 and 12 semesters, respectively. The medium of instruction is English for both of the programs.

Faculty of Pharmacy is proud of being the first academic member of International Pharmacy Federation (FIP) from Cyprus and the second one among the faculties of pharmacy throughout Turkey. Our faculty is also represented through EMUPSS (Eastern Mediterranean University Pharmacy Students Society) as a member association of "The International Pharmaceutical Students' Federation" (IPSF) offering Student Exchange Program. This allows our students the opportunity to conduct clinical and community pharmacy practice in different countries. At the same time, with the same organization, our faculty has hosted pharmacy students from around the world.

The Faculty has student laboratories equipped with the latest technological and educational infrastructure necessary for pharmaceutical sciences including HPLC, GC-MS, FT-IR, UV spectrophotometer, laminar flow, microwave reactor, tablet machine, dissolution device, granulator, homogenizator, viscosimeter, climate cabinet, incubators, particle sizer, powder mixer, grinder, water baths, microscopes, etc. All of the laboratories are furnished with smart board. The medicinal and aromatic plant garden is arranged in front of the Faculty building for the studies in Pharmaceutical Botany and Pharmacognosy.

Our laboratory facilities are also competent for higher level of research and, despite of it’s newly establishment, Faculty of Pharmacy has published approximately 500 scientific papers in the reputed journals recognized by Science Citation Index (SCI).

Since we have students more than 30 countries, Faculty of Pharmacy takes pride in having a multinational student profile and offers an international atmosphere to students in order to be socialized easily. Each year, we regularly celebrate May 14th - "Pharmacists Day" as the "Career Days" focusing on a special topic to bring our students together with exclusive guests from pharmaceutical and cosmetics industries and provide them with a fruitful discussion for their future career opportunities

2.1 Mission

The mission of the faculty is to educate pharmacists who embrace the principles of the profession, closely follow global developments in pharmacy, contribute to the protection and improvement of public health, understand the needs of the pharmaceutical industry, and provide qualified contributions to the field; individuals equipped with strong practical skills, high self-confidence, and effective communication abilities.

2.2 Vision

The vision of the faculty is to be a faculty that is empowered through education, enlightened by science, and provides services to society at an international level; that educates innovative and visionary pharmacists who adhere to ethical values and have a universal perspective within a campus environment equipped with modern infrastructure and in line with contemporary needs; that is recognized and respected worldwide for its scientific research, with strong international collaborations; and that is environmentally friendly, modern, and competitive among global universities.

2.3 Facilities

Having been designed in accordance with the program requirements and objectives, laboratories housed by EMU Pharmacy Faculty contain the latest technical and physical features and provide educational and research-related services. The program also offers an independent microscopy lab for students' individual use. Each lab contains a smart board creating a productive educational environment for students.

Lecture Rooms:

PHARA116-PHARA118 - Ground Floor
PHAR 212-213-218-219-A220-A222-A224-226-227-228 – First Floor
Research Laboratories:
Phar L108 – Pharmaceutical Technology Research Laboratory
Phar L117 – Pharmacognosy / Pharmaceutical Botany / Pharmaceutical Microbiology / Pharmaceutical Toxicology Research Laboratory
Phar L214 – Pharmaceutical Chemistry Research Laboratory
Phar L249-250 – Cell Culture Laboratory
Study - Computer Room:
Phar 115 – Ground Floor
Student Laboratories:
Phar L215 - Pharmaceutical Technology Laboratory – First floor
Phar L301 – Pharmaceutical Botany and Pharmacognosy Laboratory – Third floor
Phar L302 – Organic Chemistry and Pharmaceutical Chemistry Laboratory – Third floor
Phar L303 – Basic Pharmaceutical Sciences Laboratory – Third floor
Phar L401 – Microscopy Laboratory – Fourth floor




2.4 Career Opportunities

Graduates of the program may work in pharmacies, hospitals, drug industry, research and development laboratories, drug and medical equipment companies and any other equivalent establishments. They may also work in the cosmetics industry, thanks to the in-depth information they received from courses on cosmetology.

2.5 Faculty and Staff

Name – Surname	Office no	Phone No	E-mail
Prof. Dr. HAYRETTİN OZAN GÜLCAN (Dean)	323/315	3109/2195	ozan.gulcan@emu.edu.tr
Assist. Prof. Dr. JALE YÜZÜGÜLEN (Vice Dean)	322/345	3145/2573	jale.yuzugulen@emu.edu.tr
Assoc. Prof. Dr. MEHMET İLKTAÇ (Vice Dean)	321/336	2636/2566	mehmet.ilktac@emu.edu.tr
Full-Time Instructors			
Name – Surname	**Office no**	**Phone No**	**E-mail**
Prof. Dr. EDA BECER	350	2562	eda.becer@emu.edu.tr
Prof. Dr. MÜBERRA KOŞAR	317	3190	muberra.kosar@emu.edu.tr
Assoc. Prof. Dr. EMRE HAMURTEKİN	314	2449	emre.hamurtekin@emu.edu.tr
Assoc. Prof. Dr. İMGE KUNTER	318	2868	imge.kunter@emu.edu.tr
Assist. Prof. Dr. AYBİKE YEKTAOĞLU	329	3147	aybike.yektaoglu@emu.edu.tr
Assist. Prof. Dr. E. DİLEK ÖZYILMAZ	349	3137	emine.ozyilmaz@emu.edu.tr
Assist. Prof. Dr. CANAN GÜLCAN	355	2173	canan.gulcan@emu.edu.tr
Assist. Prof. Dr. EMİNE VİLDAN BURGAZ	334	2148	vildan.burgaz@emu.edu.tr
Assist. Prof. Dr. LEYLA BEBA POJARANİ	353	3136	leyla.beba@emu.edu.tr
Assist. Prof. Dr. TUĞBA ERÇETİN	331	2441	tugba.ercetin@emu.edu.tr
Sr. Instr. MUSTAFA AKPINAR	327	3915	mustafa.akpinar@emu.edu.tr
Part-Time Instructors			
Name – Surname	**Office no**	**Phone No**	**E-mail**
Dr. AÇELYA MAVİDENİZ	319	1414	acelya.mavideniz@emu.edu.tr
Dr. BESTE ATLI	316	2563	beste.atli@emu.edu.tr
Dr. ERTUĞRUL ÖZBİL	326	3149	ertugrul.ozbil@emu.edu.tr
Dr. EZGİ AK SAKALLI	316	2563	ezgi.aksakalli@emu.edu.tr
Dr. HANANEH KORDBACHEH	332	2564	hananeh.kordbacheh@emu.edu.tr
Sr. Instr. AYSAN DAVATGARAN TAGHIPOOR	333	3135	aysan.davatgaran@emu.edu.tr
Sr. Instr. GİZEM KİNEL	328	2037	gizem.kinel@emu.edu.tr
Sr. Instr. NARDIN SEDGHIZADEH	332	2564	nardin.sedghizadeh@emu.edu.tr
Sr. Instr. ŞENGÜL AKKARTAL	328	2037	sengul.akkartal@emu.edu.tr
Sr. Instr. SULTAN ÖĞMEN	328	2037	sultan.ogmen@emu.edu.tr
Sr. Instr. TABASOM ABDOLLAHI	319	1414	tabasom.abdollahi@emu.edu.tr
Sr. Instr. ZAHRA NOBAVAR	319	1414	zahra.nobavar@emu.edu.tr
Instr. MUSTAFA ALHADI	337	3129	mustafa.mahdi@emu.edu.tr
Instr. NESRİN ÖZTİNEN	316	2563	nesrin.oztinen@emu.edu.tr
Administrative Staff			
Name – Surname	**Office no**	**Phone No**	**E-mail**
EMİNE ERTOPRAK	335	3100	emine.ertoprak@emu.edu.tr

SEDEF DAĞYARAN	324	2401	sedef.dagyaran@emu.edu.tr
NAZEN CANCURİ	320	2133	nazen.cancuri@emu.edu.tr
MEHMET KUMRAL	347	2589	mehmet.kumral@emu.edu.tr
Technical Staff			
Name – Surname	Office no	Phone No	E-mail
ŞIH OSMAN VEYSAL	112	2993	osman.veysal@emu.edu.tr

2.6 Pharmaceutical Sciences PhD Program- Overview

The Pharmaceutical Sciences PhD Program is a 4-year, English-medium doctoral program structured in line with established models in the United States, Europe, and Türkiye. It aims to train researchers who can apply advanced laboratory and research methods, conduct independent scientific work, and produce original contributions to pharmaceutical sciences.

The program is multidisciplinary and offers specialization through modules such as Biochemistry, Pharmaceutical Chemistry, Pharmaceutical Technology, Pharmaceutical Toxicology, Pharmacology, Pharmacognosy, as well as Pharmaceutical Microbiology and Pharmacoeconomics and Management. The curriculum includes a minimum of 8 courses (24 credits), a thesis proposal, the PhD Qualifying Examination, and a doctoral thesis, supported by seminars and academic supervision. Graduates can pursue careers across the pharmaceutical, chemical, cosmetics, and herbal supplement industries, R&D centers, manufacturing and quality units, clinical and hospital settings, universities, and regulatory institutions.

3. Institute of Graduate Studies and Research (IGSR) – 2025–2026 Academic Year

3.1 Fall Semester (2025-2026)

Date / Period		Notes / Forms
22 July 2025	Last day for submitting lists of graduate courses offered in Fall semester to the Institute	Graduate Course Offer Form should be submitted
1 Sept 2025	Last day for online applications to graduate programs (visa-required countries)	-
9 Sept 2025	Last day for online Research Assistant appointments (renewals)	By departments
8-12, 15-19, 22-26 Sept 2025*	English/Turkish Language Examination for graduate students	Exams continue as long as new student registrations continue
12 Sept 2025	Last day for online applications to graduate programs (non-visa-required countries)	-
12, 15-16 Sept 2025	Examination/interview dates for new Research Assistant appointments	-
16 Sept 2025	Last day for online Research Assistant appointments (new assistants)	By departments
17-19 Sept 2025	Course registration period	-
22 Sept 2025	Classes commence	-
6 Oct 2025	Last day for add/drop	-

6 Oct 2025	Last day for submitting Thesis Monitoring Committee Appointment Forms (PhD thesis proposal defense)	Submit to Institute
6 Oct 2025	Last day for submitting Supervisor Appointment and Thesis Proposal Forms	Submit to Institute
6 Oct 2025	First day of thesis defense period (for students who completed all other requirements)	Forms: >=2 weeks before Master's defense / >=1 month before PhD defense; thesis format must be approved by Institute and department
2 Dec 2025	Last day for submitting Authorization Request to Schedule a Ph.D. Qualifying Examination Forms	For PhD students who will attend qualifying examination
12 Dec 2025	Last day for course withdrawal	-
12 Dec 2025 - 26 Jan 2026	Thesis Monitoring Committee period	For students whose thesis topics are approved
16 Dec 2025	Last day for submitting lists of graduate courses offered in Spring semester	Graduate Course Offer Form should be submitted
16-30 Dec 2025	PhD Qualifying Examination period	-
19 Dec 2025	Last day for applying to get Leave of Absence	-
30 Dec 2025	Last day of classes	-
5 Jan 2026	Last day for submitting Ph.D. Qualifying Examination Reports	Submit to Institute
26 Jan 2026	Last day for submission of grades to the registrar	-
27 Jan - 9 Mar 2026	Program Change application period (Spring semester)	Program Change Form should be submitted
27 Jan - 9 Mar 2026	Waiting for publication status application period (Spring semester)	Application Form for Waiting for Publication Status should be submitted
29 Jan 2026	Last day for submitting Thesis Monitoring Committee Reports	For PhD students who passed qualifying examination and registered to thesis work
30 Jan 2026	First day of thesis defense period (for students registered to any course/seminar in addition to thesis)	Same timing rules for forms and thesis format approval
(Date not specified)	Fall Semester Graduation Ceremony for graduate programs	-
6 Feb 2026	Last day of thesis defense period	-

17 Feb 2026	Last day for submitting the bound thesis to the Institute	Graduation Confirmation Letter by Department Head should accompany bound thesis

3.2 Spring Semester (2025-2026)

Date / Period		Notes / Forms
9 Feb 2026	Last day for online applications to graduate programs (visa-required countries)	-
9-13, 16-20, 23-27 Feb 2026*	English/Turkish Language Examination for graduate students	Exams continue as long as new student registrations continue
11 Feb 2026	Last day for online Research Assistant appointments (renewals)	By departments
13, 16-17 Feb 2026	Examination/interview dates for new Research Assistant appointments	-
16 Feb 2026	Last day for online applications to graduate programs (non-visa-required countries)	-
18 Feb 2026	Last day for online Research Assistant appointments (new assistants)	By departments
18-20 Feb 2026	Course registration period	-
23 Feb 2026	Classes commence	-
9 Mar 2026	Last day for add/drop	-
9 Mar 2026	Last day for submitting Thesis Monitoring Committee Appointment Forms (PhD thesis proposal defense)	Submit to Institute
9 Mar 2026	Last day for submitting Supervisor Appointment and Thesis Proposal Forms	Submit to Institute
9 Mar 2026	First day of thesis defense period (for students who completed all other requirements)	Forms: >=2 weeks before Master's defense / >=1 month before PhD defense; thesis format must be approved by Institute and department
13 May 2026	Last day for submitting Authorization Request to Schedule a Ph.D. Qualifying Examination Forms	For PhD students who will attend qualifying examination
22 May 2026	Last day for course withdrawal	-
22 May - 2 July 2026	Thesis Monitoring Committee period	For students whose thesis topics are approved

27 May - 11 June 2026	PhD Qualifying Examination period	-
1 June 2026	Last day for applying to get Leave of Absence	-
11 June 2026	Last day of classes	-
16 June 2026	Last day for submitting Ph.D. Qualifying Examination Reports	Submit to Institute
2 July 2026	Last day for submission of grades to the registrar	-
3 July - x (2026)	Program Change application period (2026-2027 Fall)	Program Change Form should be submitted
3 July - x (2026)	Waiting for publication status application period (2026-2027 Fall)	Application Form for Waiting for Publication Status should be submitted
7 July 2026	Last day for submitting Thesis Monitoring Committee Reports	For PhD students who passed qualifying examination and registered to thesis work
8 July 2026	First day of thesis defense period (for students registered to any course/seminar in addition to thesis)	Same timing rules for forms and thesis format approval
15 July 2026	Spring Semester Graduation Ceremony for graduate programs	-
y 2026	Last day of thesis defense period	y = five weeks before x
z 2026	Last day for submitting the bound thesis to the Institute	z = one day before registration period starts in 2026-2027 Fall; Graduation Confirmation Letter should accompany bound thesis

Definitions: x = last day for add/drop in 2026-2027 Fall semester; y = five weeks before x; z = one day before the registration period starts in 2026-2027 Fall semester.
*** Note:** As long as new student registrations continue, language exams continue to be held.

4. Outcomes of the Pharmaceutical Sciences PhD Program

Upon completion of the Pharmaceutical Sciences PhD Program, students will be able to:

1. Demonstrate advanced, comprehensive, and current knowledge in Pharmaceutical Sciences and relevant interdisciplinary fields.
2. Identify significant scientific problems and formulate original research questions/hypotheses that contribute to the advancement of the field.
3. Design and conduct independent doctoral-level research, selecting appropriate experimental/analytical methods and ensuring scientific rigor.
4. Apply ethical principles and responsible conduct of research, including academic integrity, proper referencing, and ethical approvals where applicable.

5. Collect, manage, and document research data systematically using appropriate data management practices and secure record-keeping.
6. Analyze and interpret complex datasets using suitable qualitative/quantitative approaches and draw evidence-based conclusions.
7. Critically evaluate scientific literature and databases, identify knowledge gaps, and position research within the international state-of-the-art.
8. Ensure research quality, validity, and reproducibility through appropriate controls, verification steps, and quality assurance/management procedures.
9. Develop innovative approaches/solutions (e.g., new concepts, methods, models, or applications) relevant to Pharmaceutical Sciences.
10. Communicate research findings effectively in scientific formats (oral, written, visual), including thesis writing, publications, and conference presentations.
11. Prepare scholarly outputs aligned with academic standards (e.g., manuscripts, reports, thesis chapters) and respond constructively to scientific feedback/review.
12. Work effectively in multidisciplinary research environments, collaborating with researchers and stakeholders where appropriate.
13. Demonstrate leadership and professional responsibility in research settings, including supervision/mentoring tasks when applicable.
14. Plan, manage, and evaluate research projects, including timeline, resources, feasibility, and risk management.
15. Use digital technologies, informatics tools, and software relevant to research (e.g., literature databases, data analysis tools, reference management, reporting).
16. Critically appraise emerging technologies and contemporary developments in Pharmaceutical Sciences and integrate them into research practice when relevant.
17. Demonstrate lifelong learning and continuous professional development, maintaining competence by monitoring emerging scientific issues and innovations.
18. Contribute to the scientific community and research culture, supporting dissemination, academic networking, and research-driven problem solving.

Evidence of achievement of outcomes (current status: no graduates yet)

- Completion of program milestones: coursework, seminar, PhD qualifying examination, thesis proposal, thesis defense
- Thesis Monitoring Committee (TMC) evaluations, periodic progress reports, and documented research activities
- Research dissemination during candidacy: conference abstracts/presentations, manuscripts (submitted/accepted), where applicable
- Assessment records and official documentation (seminar evaluation, qualifying exam reports, proposal approval forms, defense reports)
- Graduate tracking / alumni-employer feedback will be incorporated as outcome indicators once the first cohort graduates.

These indicators are reviewed periodically by the relevant program and Institute mechanisms to support continuous improvement.

5. Curriculum and Brief Description of the Pharmaceutical Sciences PhD Program

5.1 Curriculum of the PhD Program

Table 1. PhD Study Plan: Core Requirements and Elective Course Distribution

Reference	Course Code	Course Title	Credits	Required/Elective
J46R0	PHAR600	Ph.D. Thesis	0	Required
J46RQ	PHAR699	Ph.D. Qualifying Exam	0	Required
J46RS	PHAR698	Seminar	0	Required
J46R1	PHARXXX	Area Elective Course	3	Elective
J46R2	PHARXXX	Area Elective Course	3	Elective
J46R3	PHARXXX	Area Elective Course	3	Elective
J46R4	PHARXXX	Area Elective Course	3	Elective
J46R5	PHARXXX	Area Elective Course	3	Elective
J46R6	REQ1	Elective Course	3	Elective
J46R7	REQ2	Elective Course	3	Elective
J46R8	REQ3	Elective Course	3	Elective

5.2 Brief Course Descriptions for Area Elective Courses and Elective Courses

5.2.1 Area Elective Courses

Pharmaceutical Chemistry

Course Code	Course Title	Course Description
PHAR643	Nomenclature of Organic Compounds	Introduction to the nomenclature of organic compounds, types of nomenclature of organic compounds IUPAC naming with functional groups, carbohydrates, sugars, polycyclic rings, bioorganic molecules, nomenclature of drugs, naming of natural products and synthetic organic compounds, used or synthesized as pharmaceuticals and medicinal compounds.
PHAR644	Synthesis of Natural Products and Semi-Synthesis	Introduction to natural organic compounds and natural products, interception point of natural and synthetic products. Synthesis of natural compounds and their derivatives, retro synthesis, total synthesis, Introduction of exotic reagents and reactions for the synthesis of natural compounds and their derivatives.
PHAR645	Synthetic Strategy	Basic definitions, retrosynthetic analysis, disconnections, protection and deprotection. Functional group interconversions, stereochemical strategies, important name reactions, total synthesis of representative organic molecules.
PHAR646	Spectroscopic Identification of Organic Compounds	Types of spectroscopic analyses to identify pharmaceutical and medicinal organic compounds and biopharmaceuticals. UV-Vis Spectroscopy, 2D- and 3D-NMR Spectroscopy, FTIR, Rotational/Vibrational Spectroscopy, Mass Spectroscopy (GC-MS, LC-MS, HPLC-MS).

PHAR647	Metabolism-Based Drug Design	Basic terminology, basic enzymology, enzymes involved in drug metabolism, toxicological bioactivation, prediction of drug metabolism, metabolism perspectives in drug design, pro-drugs, and soft drugs.

Pharmacognosy

Course Code	Course Title	Course Description
PHAR657	Advanced Pharmacognosy	This course covers advanced concepts in natural products and medicinal plants, focusing on the chemistry, biosynthesis, analysis, and quality control of bioactive secondary metabolites. It also addresses modern approaches in phytochemical investigation, standardization, and the safe, evidence-based use of herbal medicines.
PHAR658	Plant Biotechnology	This course introduces biotechnological tools used to improve plants and produce valuable bioactive compounds, including plant tissue culture, micropropagation, genetic transformation, and metabolic engineering. It also covers applications such as medicinal plant enhancement, production of secondary metabolites, and quality/safety considerations in plant-derived products.
PHAR659	Advanced Phytotherapy	This course focuses on the evidence-based therapeutic use of medicinal plants and herbal products, linking phytochemistry with pharmacological effects and clinical applications. It covers indications, dosing, safety, interactions, and regulatory aspects of phytotherapeutic agents, with case-based evaluation of efficacy and risk.
PHAR660	Secondary Metabolites	This course examines the diversity, biosynthesis, and biological roles of plant secondary metabolites (e.g., alkaloids, terpenoids, phenolics, glycosides). It emphasizes their pharmacological relevance, methods of extraction and characterization, and their applications in drug discovery, phytotherapy, and quality control.
PHAR661	Analysis of Herbal Drugs	This course covers analytical methods used for the identification, standardization, and quality control of herbal drugs and plant-based products. Topics include sampling, extraction, chromatographic and spectroscopic techniques (e.g., TLC/HPLC/GC, UV–Vis, FTIR), marker/active compound quantification, and evaluation of adulteration, contaminants, and stability according to pharmacopeial guidelines.

Biochemistry

Course Code	Course Title	Course Description
PHAR601	Cell Signaling Mechanisms	This course aims to teach the students principles of receptor organization and also the importance of the dynamics and function of receptors which plays a critical role in cell signaling and pharmaceutical effects. Besides, cell signaling mechanisms governing different cellular are taught in this lecture. The focus of this course is developing an understanding of the molecular and biochemical principles related to cell signaling pathways related to important physiological and pathological conditions. Different signaling mechanisms will be provided throughout to illustrate common principles and provide an overview of major signaling pathways that are related to inflammation, autoimmunity, neurodegeneration, and cancer.
PHAR602	Advanced Biochemistry I	This course provides an in-depth study of the structure–function relationships of biomolecules and the regulation of metabolism, with emphasis on enzyme kinetics, bioenergetics, membrane transport, and cellular signaling. It also covers modern biochemical techniques and data interpretation used in research and biomedical applications.
PHAR603	Advanced Biochemistry II	This course will apply core biochemical principles to explain the pathogenesis of emerging diseases at the molecular level and describe advanced biochemical technologies used to understand and treat these illnesses. Students will be exposed to how biochemical principles influence medical diagnoses and therapy.
PHAR604	Stem Cell Technologies and 3D Culturing Systems	This course introduces stem cell biology and its medical applications in development, regeneration/repair, and cancer. It covers pluripotency, reprogramming (iPSC), differentiation, transdifferentiation, stem cell niches, 3D culture systems and organoids, therapeutics, and related ethical issues. The course integrates cell biology, biochemistry, anatomy, histology, and physiology in a clinical context, and aims to equip students with core principles, practical methods, and current advances in stem cell and 3D culture technologies.
PHAR605	Cancer Biochemistry	This course explores the biochemical and molecular mechanisms underlying cancer, including oncogene and tumor suppressor signaling, dysregulated cell cycle control, apoptosis evasion, metabolic reprogramming, angiogenesis, invasion/metastasis, and genomic instability. It also introduces key laboratory biomarkers and the biochemical basis of major anticancer therapies and drug resistance.

Pharmacology

Course Code	Course Title	Course Description
PHAR615	Neurotransmitter Pharmacology	This course focuses on major neurotransmitter systems and how drugs modulate their receptors and synaptic signaling, linking mechanisms to clinical uses, adverse effects, and interactions.
PHAR616	Neuroendocrinology	The role of gender in different neuronal functions (mood disorders, pain transmission, sleep), understanding the hormone receptors, the role of neuronal system on endocrine release, pituitary gland, hypothalamus and pineal gland in human physiology, neuroendocrine control of stress, cholinergic system, and hormone release, HPA axis and mood, circadian rhythm and neuroendocrine regulation
PHAR617	Novel Targets in Drug Discovery	New pharmacological targets (new receptors, enzymes, ion channels, proteins) which play role in chronic diseases like diabetes, heart diseases, neurodegenerative diseases will be discussed in this lecture. Mechanism of actions of the recently approved drugs will be studied in details. Clinical trials with new therapeutic targets that are in action for diseases management will be studied. Novel mechanisms that play role in the pathophysiology of diseases which are important for public health will also be studied
PHAR618	Advanced Pharmacological Experimental Methods	This course provides advanced training in the design, execution, and critical evaluation of pharmacological experiments. It covers in vitro and in vivo models, selection of endpoints, dose–response and time-course studies, experimental controls, ethics and animal welfare considerations, and appropriate statistical analysis and reporting to ensure valid, reproducible results.
PHAR619	Advanced Cardiovascular Pharmacology	Cardiovascular hemodynamics, vasoactive substances, neurotransmitters and receptors which play role in cardiovascular functions will be studied. Novel treatment strategies in hypertension, cardiac failure and lipid disorders will be discussed. Ion channels in cardiac functioning and antiarrhythmics medications, use of cardiovascular drugs during pregnancy, pediatric cardiovascular pharmacology and SARS-Cov2 and cardiovascular pathology will be discussed in detail.

Pharmaceutical Technology

Course Code	Course Title	Course Description
PHAR671	Preformulation	The course covers detailed information on the characteristics sought in a successful drug formulation, the formulation stages in drug development, the purpose of pre-formulation studies, acquiring the necessary concepts and knowledge to develop pharmaceutical products, physicochemical properties of active pharmaceutical ingredient and excipient that affect the formulation, and the degradation pathways of drugs.
PHAR672	Stability	The course covers the definition and concept of drug stability, as well as the performance and evaluation of stability studies in accordance with international guidelines. Additionally, it provides detailed information on the stability studies that need to be conducted for all types of dosage forms.
PHAR673	Solid Pharmaceutical Technology and Micromeritics	Solid dosage forms involve an analysis of all factors that affect their development and production. This includes learning fundamental information about particle size and distribution, as well as teaching measurement methods and calculations related to these factors
PHAR674	Multiphase Systems	This course covers the fundamental principles of multiphase systems and their applications in pharmaceutical dosage forms.
PHAR675	Oral Controlled Release Systems	It includes the basic concepts of controlled drug release, design of oral controlled drug delivery systems, their characteristics, and influencing factors

Pharmaceutical Toxicology

Course Code	Course Title	Course Description
PHAR629	Drug Safety and Pharmacovigilance	Importance of adverse drug reactions, Drug development process; Definition and classification of adverse drug effects; Most common adverse drug reactions and examples; Chronological description of examples of drugs withdrawn due to adverse drug reactions; Development of pharmacovigilance system; Pharmacovigilance regulation ; Types of drug withdrawal; Reporting system, Situations that need to be reported; Special cases to report; Examples of invalid reporting; Reasons for each country-specific pharmacovigilance system; Pharmacovigilance systems in other countries

PHAR630	Clinical Toxicology	Introduction to clinical toxicology; What is poison and poisoning, Threshold dose concept, properties of poisoning agents and their effect on poisoning; Local antidote, vomiting and gastric lavage; General principles in the control of poisoning; Systemic antidotes; Examples of systemic antidotes; Acceleration of forced diuresis and elimination; Dialysis methods; Case examples of drug poisoning: Poisoning by hypnotics, sedatives, tranquilasans and anticonvulsants; Salicylate poisoning and treatment; Analgesic poisoning and treatment; Poisoning due to cardiovascular drugs; Poisoning with pesticides; Mushroom poisoning and herbal poisoning; Animal poisoning (snake, spider etc).
PHAR631	Food Toxicology	The concept of food safety and toxicology; Toxicological evaluation of chemical contaminants in foods; Dioxins and other chlorinated hydrocarbons; pesticides and antibiotics; Mycotoxins; Heavy metals; Contaminants and nitrosamines formed as a result of cooking process in foods; Food additives; International organizations in food safety and Turkish Food Codex; Risk management of chemical contaminants in foods; As risk management tools; NOAEL, ADI, MPL; Risk groups and food allergy.
PHAR632	Drug Interactions	Drug-drug interactions; Examples of drug-drug interactions; Drug-disease interactions; Examples of drug-disease interactions; Drug-food interactions; Examples of drug-food interactions; Drug-chemical interactions; Examples of drug-chemical interactions.
PHAR633	Target Organ Toxicity	Nephrotoxic chemicals and damage types; Structure and important functions of the hematopoietic system and toxicity types in this system; Anatomy and important functions of the liver and its toxins, respiratory system poisons (asset, silica, methyl alcohol poisoning, nervous system and neurotoxicity, cardiotoxicity, structure of the eye and ocular toxicants).

Pharmaceutical Microbiology

Course Code	Course Title	Course Description
PHAR676	Advanced Pharmaceutical Microbiology	Advanced study of microorganisms relevant to pharmaceuticals, focusing on contamination sources, control strategies, sterilization/disinfection principles, and microbiological risk management in manufacturing.
PHAR677	Advanced Bacteriology	In-depth coverage of bacterial physiology, genetics, classification, and antimicrobial susceptibility, with emphasis on clinically and pharmaceutically important bacteria.

PHAR678	Microbiological Quality Analysis of Pharmaceuticals	Practical and regulatory approach to microbiological testing of pharmaceutical products, including microbial limits, sterility testing, endotoxin/pyrogen testing, environmental monitoring, and method validation.
PHAR679	Molecular Microbiology and Pathogenesis	Molecular mechanisms of microbial virulence and host–pathogen interactions, including toxins, adhesion/invasion, immune evasion, biofilms, and modern molecular diagnostic tools.
PHAR680	Research Methods in Pharmaceutical Microbiology	Research design and laboratory methods used in pharmaceutical microbiology, covering experimental planning, culture-based and molecular techniques, data analysis, and scientific reporting.

Pharmaceutical Economics and Management

Course Code	Course Title	Course Description
PHAR682	Advanced Pharmacoeconomics	This course covers advanced methods for evaluating the economic value of medicines and health interventions, including cost-effectiveness, cost–utility, budget impact, and decision-analytic modeling to support evidence-based healthcare decisions.
PHAR683	Pharmaceutical Industry and Organization	This course introduces the structure and operations of the pharmaceutical industry, focusing on drug development and manufacturing workflows, regulatory pathways, quality systems, supply chain, market access, and organizational management.
MGMT635	Advanced Entrepreneurship	This course develops advanced entrepreneurial skills, emphasizing opportunity recognition, business model design, innovation management, financing strategies, and scaling ventures through case studies and applied projects.
MGMT603	Strategic Management	This course examines strategic analysis and decision-making in organizations, covering competitive advantage, industry and market analysis, strategy formulation/implementation, and performance evaluation using real-world cases.
FINA621	Investment Appraisal	This course focuses on evaluating investment projects using financial and economic criteria, including cash-flow forecasting, NPV/IRR, risk and sensitivity analysis, and capital budgeting decisions.

5.2.2 Elective Courses

PHAR606 – Methods in Cellular and Molecular Biology

The course objective is to assist students with their own research by providing them with sufficient background information so that they are able to design molecular biological and molecular biochemistry experiments. This course also aims to teach students which methods are best suited to address a particular

research question or problem. At the same time, this course will provide information to student's better access to the scientific literature, and also a better understanding of the methods which allow the students to critically evaluate the results and conclusions of scientific papers. One of the aims of this course is to teach students how to design research projects using molecular biological tools, such as enzyme assays, antioxidant assays, protein analysis methods, flow cytometry, immunoblotting, western blotting, immunofluorescent assays, Immunohistochemical assays, FACS, and MACS. Besides cell culture basic assays is also subjects covered in this lecture, such as motility-invasion assays, oxidative stress assays, cellular toxicity assays, cell cycle assays, colony formation assays, adhesion assays, differentiation assays, and tubulogenesis assay

PHAR607 – Biochemical Markers in Endocrinology Diseases

In this course, it is aimed to learn the structures, synthesis, biological functions, metabolisms and signal transmission mechanisms of hormones in the human body. This course contains; general properties of hormones and the concept of receptors, classifies hormones according to their different properties, classifies signal transmission mechanisms in mammalian cells, describes mechanisms in different signaling pathways through their molecular components, structures, synthesis, metabolism and biological functions of each of the hormones in the human body.

PHAR608 – Geriatric Toxicology

Examines age-related changes affecting toxicokinetics and toxicodynamics in older adults, with emphasis on drug safety, adverse effects, interactions, and risk assessment in geriatrics.

PHAR609 – Biochemistry of Metabolic Diseases

In this course, it is aimed to learn biochemical basis of metabolic diseases. Course contains; disorders of carbohydrate metabolism, carbohydrate absorption disorders, carbohydrate storage diseases, disorder of lipid metabolism, disorders of aminoacid metabolism, vitamin defiency disorders, mitochondrial diseases

PHAR610 – Instrumental Analysis

Types of spectroscopic analyses to identify pharmaceutical and medicinal organic compounds. Thin Layer chromatography, column chromatography, UV-Vis Spectroscopy, FTIR, 1H-NMR ve 13C-NMR Spectroscopy, HPLC etc.

PHAR611 – Basic Statistical Methods in Pharmaceutical Applications

Provides foundational statistical tools for pharmaceutical research, including descriptive statistics, hypothesis testing, correlation/regression, and basic experimental data analysis.

PHAR612 – Biochemistry of Brain

The course will discuss the brain lipids (e.g. sphingolipids) which are important in neuron membrane structure and myelin formation, role of folate and VitB12 metabolism on nervous system functioning and development, nucleic acids in brain development, blood-brain barrier, synthesis and release of neurotransmitters, biogenic amines in brain, neuronal growth factors, neurotoxicity of heavy metals

PHAR613 – Heterocyclic Drugs

Introduction to heterocyclics, basic nomenclature, synthesis of basic 5- and 6-member heterocyclics, drugs possess indole, imidazole, benzimidazoles, phenothiazine ring systems

PHAR614 – Medicinal Chemistry Perspectives of Drug Design and Action

Drug-like properties, basic pharmacokinetics, and pharmacodynamics, hit to lead and lead optimizations, receptors, dug-receptor interactions, DNA, DNA-drug interactions

PHAR623 – Antimicrobial Activity Testing Methods

Introduces standard methods for evaluating antimicrobial activity, including susceptibility testing, MIC/MBC determination, time-kill assays, and biofilm-related testing approaches.

PHAR624 – Pain Pharmacology

Definition and types of pain, neuroanatomy of pain, neurophysiology of pain, basic pharmacology of pain relivers, treatment of cancer and neuropathic pain, behavioral aspects of pain, pain assessment in animal models and humans, analgesic use in special populations.

PHAR625 – Pharmacologically Active Peptides

Definition of pharmacologically active peptides, hypothalamic peptides, circulating peptides, their receptors, intracellular signaling mechanisms, their pharmacological action on different tissues, clinical use of pharmacologically active peptides recent studies in pharmacologically active peptides .

PHAR626 – Pharmacology of Hematopoiesis and Coagulation

Physiology of hematopoiesis, types of anemia, pharmacology of iron, folic acid and vitamin B12, hematopoietic growth factors, mechanisms of blood coagulation, anticoagulant drugs, antiplatelet drugs, and pharmacology of fibrinolytic drugs.

PHAR627 – Cosmetic Preparations and Phytocosmetics

The course provides information about the structure and functions of the skin, cosmetic preparations used for different purposes and their formulation. It includes the controls made on cosmetic products, the conscious use of cosmetics and the acquisition of information about the undesirable effects of cosmetics.

PHAR628 – Nanotechnology Applications in Pharmacy

Applications of nanotechnology in medicine and pharmaceuticals, including characterization, nanoparticulate and nanovesicular drug delivery systems, drug targeting, and the use of nanodrugs in diagnosis and treatment.

PHAR637 – Pharmaceutical Excipients

Examines the role and selection of excipients in dosage forms, focusing on functionality, compatibility, safety, and regulatory/quality requirements.

PHAR638 – Novel Drug Delivery Systems and Targeting

The course aims to teach the basic concepts of drug targeting and targeting mechanisms, the importance and properties of drug delivery systems used in targeting.

PHAR639 – Drug Discovery From Natural Sources

Natural products and their structural analogues and their chemical diversities. Recent technological developments that are enabling natural product-based drug discovery and their applications. Drug discovery from terrestrial plants, vertebrates, invertebrates and microorganisms also marine organisms. Approved drugs from natural sources, plant-derived compounds currently in clinical trials.

PHAR640 – Extraction Methods Used in the Pharmaceutical Industry

Definition and types of extraction. Classical extraction methods; maceration, decoction, infusion, percolation, Soxhlet extraction, pressurized liquid extraction, microwave-assisted extraction, sonication-assisted extraction, supercritical fluid extraction methods and their applications. Extraction Methods used in the environmental analysis.

PHAR684 – Time Series Analysis and Forecasting in Pharmaceutical Industry

Covers time-series methods for analyzing and forecasting pharmaceutical industry data (e.g., sales, demand, inventory), using trend/seasonality models and basic predictive tools.

FINA622 – Project Financing and Risk Management

Explores financing structures for projects and systematic risk management, including funding options, cash-flow planning, risk identification, and mitigation strategies.

FINA623 – Advanced Capital Budgeting

Provides advanced techniques for capital investment decisions, including project valuation under uncertainty, real options concepts, scenario/sensitivity analysis, and strategic investment planning.

MRKT602 – Strategy and Management in Marketing Science

Focuses on strategic marketing decision-making using analytical and managerial frameworks, covering market positioning, customer insight, competitive strategy, and performance measurement.

6. Accreditations and Memberships

YÖDAK: Higher Education Planning, Evaluation Accreditation and Coordination Council

YÖK: Council of Higher Education
https://www.yok.gov.tr/en

PCN: Pharmacists Council of Nigeria
https://www.pcn.gov.ng

FIP: International Pharmaceutical Federation
https://www.fip.org/about?language=en

IPSF: International Pharmaceutical Students Federation
https://www.ipsf.org/

EPSA: European pharmaceutical students' associations
https://www.epsa-online.org/

ACPE: Accreditation Council for Pharmacy Education
https://www.acpe-accredit.org

7. Important Policies

7.1 Admission Requirements – PhD Program in Pharmaceutical Sciences

Admission to the PhD Program in Pharmaceutical Sciences is based on academic preparedness and demonstrated language proficiency. Applicants are expected to have a strong background in pharmaceutical and biomedical sciences; therefore, candidates must either be graduates of a Faculty of Pharmacy or hold a Master's degree in a related discipline such as Biology, Molecular Biology, Biochemistry, Chemistry, Chemical Engineering, or an equivalent field.

Since the program is conducted in English, TRNC citizens and international applicants must also provide evidence of English proficiency by meeting at least one of the following minimum

scores: YDS/ÜDS/KPDS (66), IELTS (6.5), TOEFL PBT (548), TOEFL CBT (211), TOEFL iBT (79), or EMU English Proficiency Exam (75). Finally, applicants must fulfill all requirements of the EMU Institute of Graduate Studies and Research, including submitting the required application documents within the announced Fall/Spring application periods (https://grad.emu.edu.tr/en/admission/admission-requirements). Where necessary, admitted students may be required to complete a Scientific Preparation/Deficiency Program, which will not exceed one academic year, before proceeding with the core PhD coursework (https://grad.emu.edu.tr/en/academic-issues/academic-calendar).

7.2 Online Application

Prospective applicants are required to submit their applications online. Applications are first evaluated by the relevant department/program, and the final decision is issued by the EMU Institute of Graduate Studies and Research. The outcome is communicated to applicants via email by the Registrar's Office. Please note that incomplete application forms and missing documents are not considered for evaluation (https://apply.emu.edu.tr/Login/Index?ReturnUrl=%2F).

7.3 First-Time Registration and Course Enrollment Procedures (Graduate Students)

Newly admitted graduate students are required to complete first-time registration through the Registrar's Office in order for a student number to be issued, payment to be confirmed, and access for online course registration to be activated. Where applicable, original English language qualification documents are to be presented for exemption/placement purposes. Registration is considered complete only after payment confirmation and system access activation (https://grad.emu.edu.tr/Documents/Brochures/New%20Student%20Quick%20Guide.pdf)

a) The Registrar's Office is visited with the Admission Letter so that the student number and payment slip are issued. If a recognized English language qualification is available, the original document is presented at this stage.

b) If the required payment has already been made, the registration is completed by the Registrar's Office and access for course registration is granted.

c) If the payment has not been made, the payment is made at the bank using the student number, and the payment receipt is submitted to the Registrar's Office so that access is activated.

d) After access is granted, course registration is completed through the department/program under the guidance of the academic advisor.

e) If a recognized English language qualification is not available, the EMU English Placement Test is taken, as administered by the School of Foreign Languages (English Preparatory School). Test date, time, and room details are checked using the student number through the School's announcements/system.

f) If the placement test is not preferred and an existing recognized qualification is to be used for placement into an English Support Program course, an application is submitted to the Institute of Graduate Studies and Research.

g) Registration and course enrollment are verified through the Student Portal, and any identified problems are reported to the academic advisor without delay.

h) The payment balance is monitored, and payments are completed by the announced due dates. For payment-related issues, the Accounting Office is contacted.

7.4 Transfer Applications

Transfer applications to EMU graduate programs are accepted and are required to be submitted online through the Online Application System. No application fee is charged, and up to three programs may be selected within a single application. Following admission and registration at EMU, an exemption (credit transfer) request may be submitted to the Academic Department Chair's Office together with the official transcript, course descriptions/syllabi, and a termination/withdrawal letter (where applicable). Exemption applications are required to be completed by the end of the semester in which the student is initially registered for a program course at EMU. Course exemption evaluations for graduate programs are carried out according to the criteria below:

a) Courses are required to be eligible for transfer and their equivalence must be demonstrable based on official documentation.

b) Courses requested for exemption must have been completed with a minimum grade of "B" and must have been taken within the five academic years preceding the semester of registration at EMU.

c) The total credits granted through exemptions may not exceed half of the total credits required to complete the program (e.g., for a 7-course program, exemption may be granted for a maximum of 3 courses).

d) For every three exempted credit courses, one semester is deducted from the student's total study period, provided that the remaining duration does not fall below the minimum study period specified in the relevant EMU graduate regulations.

7.5 Policies for Course Registration and Selection (PhD Program)

All major graduate academic processes—including registration periods, add/drop timelines, examinations, and thesis monitoring/defense stages—are implemented in accordance with the IGSR Academic Calendar, which is published online and updated for each academic year and semester. This ensures that students and staff follow clear and current timelines for key academic requirements (https://grad.emu.edu.tr/en/academic-issues/academic-calendar).

Within this framework, course registration for PhD students is planned, carried out, and monitored in coordination with the Program Coordinator, based on each student's academic standing, curriculum requirements, and remaining credit/course needs. Registration is documented using the official IGSR Course Registration Form and is implemented through the academic portal via the "Online Course Registration" option. The completed form and portal records together provide traceability of registration decisions and confirm alignment with the approved curriculum and progression rules.

In accordance with the EMU Regulations for Graduate Studies and Examinations:

a) Course selection and registration are completed in consultation with the Program Coordinator and/or thesis supervisor, and approvals are obtained from the thesis supervisor and the department/program chair.

b) Based on the student's English level determined at the beginning of the program, registration for the required support courses is completed starting from the first academic semester in line with the relevant regulations.

c) Students admitted conditionally are required to register first for the Scientific Support Program courses, in addition to any required English/Turkish Support Program courses.

d) Graduate program courses that have not been previously taken are selected and registered.

h) Upon the suggestion of the thesis supervisor, the consent of the department graduate studies committee and the approval of the Director of the Institute, a maximum of 2graduate courses (for those who have registered for the program with a master's degree) or a maximum of 4graduate courses (for those who have registered for the program with an undergraduate degree) offered preferably in the same language of the registered program may be taken at another university. The equivalence of the grades obtained from such courses for exemption purposes is determined by the graduate studies committee and the Institute Directorate.

7.6 Policies for Course Evaluation (PhD Program)

Semester grades for graduate courses are assigned according to the letter-grade system shown in the Table. In EMU graduate programs, the minimum passing grade is "B". A student who receives a grade below "B" in a compulsory course is required to repeat the course in the first semester it is offered. For a failed elective course, either the same course or an alternative elective may be taken, subject to the approval of the academic advisor and/or thesis supervisor. Students who fail a credit-bearing course with the same code twice, or who fail a replacement course, or who fail a total of two courses at any stage during doctoral studies (even if a failed course is later passed) are dismissed from the Institute. In addition, a student admitted to the PhD program with an undergraduate degree who successfully completes at least seven courses may transfer to a Master's program, in line with the relevant regulations.

Table. Grades Used in Graduate Programs

Letter Grade	*Coefficient*	*Master's Program*	*PhD Program*	*Definition / Status*
A	4.00	Pass	Pass	Successful completion
A-	3.70	Pass	Pass	Successful completion
B+	3.30	Pass	Pass	Successful completion
B	3.00	Pass	Pass	Minimum passing grade
B-	2.70	Conditional pass	Fail	Conditional / not sufficient for PhD
C+	2.30	Conditional pass	Fail	Conditional / not sufficient for PhD
C	2.00	Conditional pass	Fail	Conditional / not sufficient for PhD
C-	1.70	Fail	Fail	Unsuccessful completion
D+	1.30	Fail	Fail	Unsuccessful completion
D	1.00	Fail	Fail	Unsuccessful completion
D-	0.70	Fail	Fail	Unsuccessful completion

F	0.00	Fail	Fail	Fail
NG	0.00	Fail due to absenteeism	Fail due to absenteeism	Failure due to non-attendance
I	—	Incomplete	Incomplete	Incomplete requirements
W	—	Course withdrawn	Course withdrawn	Withdrawal
SS	—	Seminar satisfactory	Seminar satisfactory	Satisfactory
SU	—	Seminar unsatisfactory	Seminar unsatisfactory	Unsatisfactory
PS	—	Term project satisfactory	—	Satisfactory
PI	—	Term project satisfactory (with modifications)	—	Satisfactory with required revisions
PU	—	Term project unsatisfactory	—	Unsatisfactory
PP	—	Ongoing term project	—	In progress
TP	—	End-of-semester thesis study satisfactory	End-of-semester thesis study satisfactory	Satisfactory
TU	—	End-of-semester thesis study unsatisfactory	End-of-semester thesis study unsatisfactory	Unsatisfactory
TS	—	Thesis defense satisfactory	Thesis defense satisfactory	Satisfactory
TI	—	Thesis defense satisfactory (with modifications)	Thesis defense satisfactory (with modifications)	Satisfactory with required revisions
TR	—	Thesis defense to be renewed	Thesis defense to be renewed	Re-defense required
TJ	—	Thesis defense rejected	Thesis defense rejected	Rejected
QS	—	—	Successful in qualifying exam	Successful
QU	—	—	Unsuccessful in qualifying exam	Unsuccessful

7.7 Post-Coursework Progression: Seminar, Qualifying Exam, and Thesis Process

7.7.1 Appointment of Thesis Supervisor and Preliminary Thesis Proposal

As students progress beyond the coursework phase, supervision and thesis initiation are implemented and tracked through standardized IGSR forms to ensure transparency and traceability. The thesis supervisor (and, where applicable, a co-supervisor) is formally appointed—typically by the third semester—using the relevant Thesis Supervisor/Co-Supervisor Appointment Form. The student's preliminary thesis topic, determined in consultation with the thesis supervisor if not specified earlier, is communicated to the Institute no later than the end of the second semester through the approved form; the topic becomes official upon IGSR approval.

Following approval of the thesis topic, the student is expected to register for the thesis study no later than the third semester and begin preliminary work related to the approved topic. In subsequent semesters, thesis study registration is renewed and preliminary work is continued until the semester in which the thesis proposal defense takes place. At the end of each semester, thesis progress is evaluated by the thesis supervisor and recorded as TP (Satisfactory) or TU (Unsatisfactory).

Where necessary, the thesis supervisor and/or thesis topic may be changed with the approval of the Department/Program Chair and the Graduate Studies Committee, and the Institute is informed through the relevant approved form. In the event that the thesis supervisor temporarily or permanently leaves the university, supervisory duties continue with the consent of the supervisor and the student and the approval of the Graduate Studies Committee and the Department/Program Chair; in addition, an academic advisor from EMU staff is appointed, relevant forms are completed, and the Institute Directorate is informed accordingly.

7.7.2 PhD Seminar and Research Presentation

Doctoral candidates complete the PhD Seminar course (PHAR698)—typically in the fourth semester—by delivering a research-based oral presentation to an academic audience within the Faculty. The seminar is evaluated on a Successful/Unsuccessful (SS/SU) basis under the supervision of the thesis supervisor and/or course coordinator, and the presentation schedule is announced by the relevant department.

7.7.3 PhD Qualifying Examination

After completion of the seminar and required coursework, students proceed to the PhD Qualifying Examination (PHAR699), which evaluates the student's breadth of knowledge, depth of understanding in the field, and research capability. Eligible students register during the registration period of the following semester. The examination is overseen by a PhD Qualifying Committee appointed with Institute approval and is conducted by an exam jury of five members, preferably including at least two external members and the thesis supervisor (with voting rights).

The qualifying examination consists of written and oral components; only students who pass the written component proceed to the oral examination, which is conducted openly. Based on overall performance, the jury decides by absolute majority whether the student is Successful (QS) or Unsuccessful (QU), and the outcome is reported to the Institute using the relevant official form within the specified timeframe. Students who are unsuccessful repeat the failed component(s) in the following semester; failure twice results in dismissal from the Institute. Where deemed necessary, the jury may also require additional coursework (up to one-third of the total credit load), even if the course load has otherwise been completed.

7.7.4 Thesis Monitoring Committee, Thesis Proposal Defense, and Thesis Monitoring

Following successful completion of the PhD Qualifying Examination, a Thesis Monitoring Committee (TMC) is appointed for each student within one month. The appointment is made based on the favourable view of the thesis supervisor, the recommendation of the department/program chair, and the approval of the Institute Directorate. The TMC consists of three members: the thesis supervisor, one member from the relevant department/program, and one external member from outside the department/program. If a co-supervisor is assigned, attendance at TMC meetings is permitted without voting rights. Where necessary, committee membership may be revised after the semester of its formation with Institute approval.

After the TMC is established, the student prepares a thesis proposal—including the purpose of the research, methodology, and study plan—within six months at the latest. Following supervisor approval, a written request is submitted to the department to schedule the oral thesis proposal defense. The defense date is announced by the department, and the proposal is circulated to TMC members at least 15 days in advance. The defense is conducted in an open session; however, only TMC members are permitted to ask questions.

After the defense, the TMC reaches a decision by simple majority to accept or reject the proposal and reports its decision to the Institute using the relevant official form endorsed by the department/program chair. Based on the committee's decision, the thesis supervisor assigns the semester thesis grade as Satisfactory (TP) or Unsatisfactory (TU). Upon acceptance, the finalized thesis topic is formally communicated to the Institute Directorate via the relevant form signed by the thesis supervisor, TMC members, and the department/program chair.

Where applicable, Scientific Research and Publication Ethics Board approval is submitted; otherwise, the relevant exemption documentation is provided. During the monitoring period, students are required to submit a minimum of three TMC progress reports in preparation for the thesis jury appointment. Following thesis monitoring, the candidate proceeds to the PhD Thesis stage, where the research is expected to contribute by introducing an innovation, developing a novel method, or applying an established method to a new field.

7.7.5 Thesis Submission, Defense, and Graduation Procedures

Prior to the thesis defense, the dissertation is required to be prepared in accordance with the Institute's Graduate Thesis Writing Guidelines, and the candidate is required to meet the scientific activity/publication requirement defined in the Academic Evaluation Criteria (i.e., at least one thesis-related article published or accepted in an indexed journal such as SCI/SCI-E/SSCI/AHCI) (https://grad.emu.edu.tr/Documents/rules-regulations/Graduate%20Studies%20and%20Examinations%20Regulation.pdf#page=10.30)

The completed thesis is submitted to the thesis supervisor (or, in cases of a renewed defense, the revised version incorporating required corrections is submitted). Following the supervisor's approval for defense, the thesis dossier is transmitted to the Institute via the department chair's office, together with the required number of thesis copies for all jury members (including a substitute member), the Ethics Board approval/exemption documentation, and the official plagiarism software report. Where plagiarism is identified, disciplinary procedures are initiated in line with the Student Disciplinary Code, and the department is informed accordingly. After submission to the Institute, the thesis jury is appointed within the specified period, and the thesis is distributed to jury members to ensure adequate review prior to the defense.

Before the thesis defense is scheduled, the department completes the Thesis Defense Jury Request and Compliance Checklist and submits it to the Institute with the required attachments. Through this checklist, compliance with key prerequisites—such as registration status, completion of program requirements, CGPA ≥ 3.00, fulfillment of the publication condition, plagiarism report submission, and Ethics Board approval/exemption—is verified and formally recorded, and Institute approval is requested for jury appointment and defense scheduling.

The doctoral thesis jury is formed based on the favorable view of the supervisor, the recommendation of the department/program chair, and the approval of the Institute Directorate. The jury includes internal members (typically including members of the Thesis Monitoring Committee) and external professors, and convenes on a date approved by the Institute Directorate. The jury elects a chair (the supervisor does not serve as chair). The defense is conducted in an open academic setting and consists of the candidate's thesis presentation followed by a structured question–answer session, with the participation of academic staff, graduate students, and relevant experts.

Following evaluation of the written thesis and the oral defense, the jury reaches one of four decisions by simple majority: Satisfactory (TS), Satisfactory with Modifications (TI), Defense to be Renewed (TR), or Rejected (TJ). The decision is communicated to the candidate and submitted in writing, with justification, to the Institute within the defined timeframe. A rejected thesis results in dismissal from the Institute. For TI outcomes, required corrections are completed within the specified period and the thesis is considered satisfactory only after all jury members confirm in writing that revisions have been completed satisfactorily. For TR outcomes, the defense is repeated within the defined timeframe, preferably before the same jury; in a second defense, a renewal decision is not issued again, and a second rejection results in dismissal.

After a satisfactory outcome, the candidate submits the required bound copies of the final thesis to the department, which forwards them to the Institute Directorate within the specified deadline (extensions may be granted where permitted). Submission of the bound copies and graduation documentation is required for completion of graduation procedures; failure to meet these obligations may delay diploma entitlement and, if maximum study periods are exceeded, may result in loss of student rights or dismissal as applicable. Finally, within the prescribed period after submission, an electronic copy of the thesis is forwarded by the Institute to the relevant national higher education authority for archiving and inclusion in the national research repository, in accordance with applicable procedures.

7.7.6 Policies for Tuition Fees

Tuition and related charges for graduate study are announced in the official tuition fee table and may include per-course fees, thesis study fees (where applicable), and the Student Services Fund. To estimate the total fee for a given semester, the per-course fee is multiplied by the number of courses registered in that semester (and the relevant thesis study fee is added if thesis registration is included), and then the Student Services Fund is added to calculate the semester total. Further details and the most up-to-date fee information are provided in the official IGSR fee table (https://grad.emu.edu.tr/Documents/fees/2025-26%20Academic%20Year/2025-26%20New%20Graduate%20Student%20Registration%20Fee%20Table.pdf).

- *Alumni Tuition Fee Discount*

Eastern Mediterranean University (EMU) alumni who register for the first time in an EMU graduate program are eligible for an additional 20% tuition fee discount, in accordance with the relevant Board of Trustees decision. This discount applies to EMU undergraduate alumni enrolling in a Master's program and to EMU Master's alumni enrolling in a Doctorate (PhD) program. The discount is granted only for first-time enrolment at the relevant graduate level and does not apply to students who have terminated their studies and seek to re-enroll at the same level. The discount is applied for a limited duration, covering up to 4 terms for Master's degree programs and up to 10 semesters for Doctorate degree programs, as applicable.

7.7.7 Graduate Program Scholarship Opportunities

EMU offers tuition-fee scholarships for newly admitted PhD students, subject to eligibility criteria and departmental evaluation. Scholarships are awarded as 100% or 50% tuition fee waivers and are available only for first-time enrolment at the PhD level. Applicants who previously terminated, dropped, or were dismissed from a PhD program at EMU and later re-apply at the same level are not eligible, and any scholarship awarded is cancelled if such a case is detected. Scholarship applications are submitted during the online program application, and applications are accepted twice per year for the Fall and Spring semesters.

Eligibility and evaluation are based on minimum academic thresholds and departmental ranking. PhD scholarship applicants are expected to have at least an undergraduate CGPA of 3.00/4.00 (or equivalent), or an undergraduate CGPA of 2.75–2.99/4.00 (or equivalent) together with a Master's CGPA of at least 3.50/4.00 (or equivalent). Eligible applicants are ranked by the relevant department based on departmental assessment criteria (not only CGPA). The department may award up to one 100% and one 50% scholarship, in line with institutional procedures. Shortlisted candidates are announced according to the Scholarship Calendar and are required to complete registration by the stated deadline; where compelling reasons prevent timely registration, an extension may be requested through a petition submitted to the relevant department and the Institute before the deadline.

Students registered under special or visiting student status are not eligible. Students awarded a 100% scholarship may be appointed as a Category E Research Assistant, and duties of at least 6 hours per week may be assigned in academic units (or administrative units if required), in accordance with relevant regulations. Students awarded a 50% scholarship are not appointed as Category E; where a part-time research assistant position is also held, one benefit may need to be selected in line with applicable rules.

The scholarship covers tuition fees only; the Student Services Fund, first-time registration fee, and books are not covered. The scholarship period is ten academic semesters for PhD programs. If a student cannot graduate within the stipulated period and is granted an extension, the scholarship is reduced by half in the subsequent two semesters and tuition is calculated based on the new-student tuition fee for that term. Freezing of registration is excluded from scholarship coverage (freeze fees are paid by the student).

Semesters spent in Scientific Preparation and/or the English Support Program are included in the scholarship period, provided the maximum period of one year is not exceeded. Scholarships do not continue in cases of program change, and courses taken under NI (Not Included) status are not covered.

To maintain the scholarship for the following semester, students must successfully complete all registered courses and achieve a minimum CGPA of 3.00/4.00. Scholarships may be cancelled if eligibility requirements are not fulfilled, if registration is cancelled or not renewed, or if a disciplinary offence results in termination under the applicable regulations. Minor note: Detailed provisions are defined in the Regulations for Student Scholarships and Discounted Tuition Fee Implementation (https://mevzuat.emu.edu.tr/5-1-2-Rules-Scholarship_regulations.htm).

8. Grievance Policy

Informal Resolution Attempt:
Students are encouraged to informally resolve academic-related grievances with their faculty advisor within the Faculty of Pharmacy.
Formal Grievance Filing:
If an acceptable solution is not reached informally, the student must submit a written grievance to the Dean's office. The formal grievance should include details such as the issue's discovery, a description, evidence, and the desired resolution.
Dean's Office Evaluation:
The Dean's office will assess documents and mediate the grievance. Additional information may be requested, and meetings may be arranged.
Appeal Process:
If dissatisfied with the Dean's office decision, a formal written appeal can be filled to the Student Affairs Vise Rector's Office. A comprehensive record of the entire process will be kept on file until the student's graduation.

9. Student Code of Conduct

It is the fundamental duty of every student to strictly adhere to the following:
Portray a high degree of self-discipline and good conduct at all times;
Respect others' opinions and cultures;
Attend classes punctually and explain and/or produce valid evidence for any absence/tardiness;
Behave responsibly in class and avoid disturbing tutors and fellow students;
Take responsibility for attending assessments at the required date, time and place;
Submit the exceptional/mitigating circumstances documents for consideration within the specified time period and as per the process;
Follow strictly assessments' rules and regulations;

Basic safety rules in Pharmacy Laboratories:
Know where laboratory safety facilities, eyewash facilities, and firefighting equipment are;
Never take snacks inside a laboratory;
Do not taste or smell the chemicals;
Proper disposal of trash is essential;
Keep a clean working environment;
Hands should be washed frequently;
Put on a lab coat;
No smoking in the laboratory;

Long hair should never be left open and should be tied back;
Shoes should fully cover the foot. One should never wear sandals or open footwear during lab activities;
Always wear face shields or safety glasses when dealing with dangerous materials and chemicals;
Always wear protective gloves when working with any toxic agent;
When conducting laboratory experiments, always wear a lab coat;
Every chemical substance should be dealt with as though it were hazardous;
No solvent should come into touch with your skin;
All chemical substances must be clearly labeled with the name of the material property;
Never take chemicals or other items out of the laboratory;

10. Facilities Provided by the University

10.1 Özay Oral Library

Through its vast collection and the services it provides, the library aims to support teaching/instruction and research activities at our university, to meet students' and faculty members' needs for information in their academic programs and scientific research, and to contribute to improved access to information for the whole EMU community and the larger public.

Eastern Mediterranean University Özay Oral Library supports the education and research activities of the university with its materials and information services. The Library houses a collection of more than 160,000 print books, more than 30,000 owned e-books, also more than 280,000 e-books are accessible by database subscriptions, thousands of audio-visuals, more than 30,000 subscription based e-journals and around 50 print periodical subscriptions. The Library has membership in more than 50 Online Databases that allow access to; full-text Journals, Reports, Abstracts, E-Books, E-Theses Reviews, Indicators, Statistical Data, Working Papers, Standards as well as bibliographical information resources.

Check library working hours at https://library.emu.edu.tr/en/about-us/library-hours

- **Contact Address:**
  Özay Oral Library, Eastern Mediterranean University, Famagusta, 99628, North Cyprus, Mersin 10, Turkey. Tel: +90 392 630 1322 Fax: +90 392 365 1077

  E-mail: library@emu.edu.tr **Web:** http://library.emu.edu.tr

10.2 Health Center

To protect the physical and mental health of students, to contribute students in taking care of their mental and physical health as conscious individuals are among the aims of the Eastern Mediterranean University Heath Center. Students can benefit from the Health Center by presenting a document proving their identity.

Ear-nose-throat, ophthalmology, gynecology, dermatology, dentistry, and internal medicine services are provided by the University health center (https://www.emu.edu.tr/healthcenter). The working hours of the Health Center are similar to that of the University.

Health reports can be given to students by Health Center doctors in case of necessity and those taken from anywhere else but Eastern Mediterranean University Health Center must be approved and registered by the Health Center for 3 days the latest inland and 10 days the latest overseas starting from the report completion date. When needed, Health Center responsible doctor refers the Eastern Mediterranean

University students to the polyclinics under the Ministry of Health and Welfare for medical services that cannot be offered at Health Center. Students who pay insurance premiums can benefit from the consultation and examination (lab, x-rays) services in all polyclinics of hospitals under the Ministry of Health and Welfare free of charge. However, advanced imaging (MRI and CT), drugs and other apparatus required for treatment will be paid by students.

- **Address:** Health Center, Eastern Mediterranean University, Famagusta, 99628, North Cyprus, Mersin 10, Turkey **Tel**: +90 392 630 2200 **Fax**: +90 392 630 2928
  E-mail: aysin.tancer@emu.edu.tr **Web**: http://www.emu.edu.tr/saglikmerkezi/

10.3 Psychological Counseling, Guidance & Research Center (PDRAM)

EMU Psychological Counseling Guidance and Research Center (EMU-PDRAM) is the pioneer institution in North Cyprus that offers psychological services at the university level. The Center was founded in 1997 to provide psychological services to Eastern Mediterranean University (EMU) students, later extending its psychological services to EMU staff and their families.

The Center's mission is to provide services that improve performance, cognition and behavior for EMU students.

EMU-PDRAM is located on the ground floor of Health Center. Currently, the team working at EMU-PDRAM consists of six psychologists, a psychiatrist and a social worker. All EMU students can apply for counseling or related psychological services during the academic year.

Psychological services provided by EMU-PDRAM include individual counseling, group counseling, research activities, in-service training programs, and programs targeting to meet the needs of specific groups within the local community.

Psychological services provided by EMU-PDRAM are free of charge.

EMU-PDRAM psychologists adhere to fundamental ethical principles that guide the discipline of psychology. These ethical principles include respect for people's rights and dignity, confidentiality, self-referral, and responsibility. Please visit EMU-PDRAM's website http://pdram.emu.edu.tr for further information about services provided by the center and to reach EMU-PDRAM publications.

EMU-PDRAM psychologists are ready to listen, support, and help you with respect, without prejudice in the process of overcoming your problems.

- **Contact Address**: Psychological Counseling, Guidance & Research Center (PDRAM), Eastern Mediterranean University, Famagusta, 99628, North Cyprus, Mersin 10, Turkey
  Tel: +90 392 630 2251 **Fax**: +90 392 630 2254 / 2475
  E-mail: counsel.pdram@emu.edu.tr **Web**: https://pdram.emu.edu.tr

10.4 Transportation and Bus Service Facilities

As a campus- city university, Eastern Mediterranean University is fully dedicated to providing efficient and dynamic transportation services to its students 60% of whom reside in different parts of the city. The university transportation services, both on and off the campus, are offered free of charge for our students. Our developed and highly dynamic fleet provides transportation services to various city zones through 7 distinct routes.

Students can benefit from non-stop on-campus ring services scheduled in line with the class hours. For bus service routes and timetable please visit http://transportation.emu.edu.tr/en/bus-services

- **Contact Address:** Eastern Mediterranean University, Transportation Services Unit, LMP Sports Complex, Ground Floor, Famagusta, North Cyprus, Mersin 10, Turkey. Tel: +90 392 630 1336 / 1532 Web: http://transportation.emu.edu.tr

10.5 Social and Cultural Activities

Social and Cultural Activities Unit organizes various social activities for the students at EMU. As well as providing opportunities for our students to spend their extra-curricular time effectively, the Social and Cultural Activities Unit has a mission of turning our students into active, creative, social and self-confident individuals. In this respect, concerts, conferences, trips, camps, various sports tournaments, exhibitions and festivals are organized for the students.

Some of the activities are:

Spring Festivals, Orientation Days, Sand Sculpture Festival, EMU with Folk Songs, Rock Festival

Panel/Discussions with Artists, Cup of Nation Tournaments.

- **Contact Address:** Social and Cultural Activities Directorate, Eastern Mediterranean University, Famagusta, 99628, North Cyprus, Mersin 10, Turkey **Tel**: +90 392 630 2719 / 3074 **Fax**: +90 392 630 1249 **E-mail**: activity@emu.edu.tr **Web**: http://activity.emu.edu.tr

10.6 Lala Mustafa Paşa (LMP) Sports Complex

EMU Sports Affairs Directorate delivers sports-related services to students. Lala Mustafa Paşa (LMP) Sports Complex provides high quality sports services 6 days a week with the latest equipment located in the studios within the complex.

✓ **Outdoor Sports Areas**

To benefit from our astroturf pitches, the students can make a reservation from the LMP Information Office. Outdoor basketball courts are free of charge, and tennis courts can be rented for a fee from LMP Information Center or Tennis Courts and are open day and night.

✓ **Indoor Sports Areas**

With a capacity of 3500 seats, the LMP Sports Complex boasts 3 SQUASH halls, a JUI-JITSU studio, tartan track and a football pitch, all providing sports services at international standards.

With a mission of spreading the sports activities nationwide, the directorate takes part in national leagues in the fields of volleyball, basketball, athletics, tennis, handball, billiards, chess, wrestling, cycling, table tennis, triathlon and football tennis.

Students representing the university in the leagues are awarded scholarships by the university. The cricket, bowling, darts, swimming, futsal and football teams successfully represent the University in the inter-university tournaments and leagues.

Students wishing to receive further information on taking up sports professionally are always welcome to contact us at our directorate.

- **Contact** Address: Sports Affairs Directorate, Eastern Mediterranean University, Famagusta, 99628, North Cyprus, Mersin 10, Turkey. **Tel:** +90 392 630 2302 **Fax:** +90 392 630 2319

E-mail: spor@emu.edu.tr **Web:** https://spor.emu.edu.tr/tr

10.7 Rauf Raif Denktas Culture and Congress Center

Rauf Raif Denktas Culture and Congress Center is located in the north part of the university campus, 500 meters away from the beach and next to EMU Beach Club in Famagusta. The building houses convention and conference rooms, exhibition halls, museums and art workshops. With a closed area of 5,700 square meters and a capacity seating up to 846 people, the building is the biggest culture and congress center throughout the region. The building also houses 8 conference and meeting rooms.

Theatre and Show Halls, Meeting and Conference Halls, Exhibition Halls, The Foyer and Lobby

Services:https://www.emu.edu.tr/en/campus/facilities/rauf-raif-denktas-culture-and-congress-center/services/1349

- **Contact Address:** Rauf Raif Denktas Culture and Congress Center, Eastern Mediterranean University, Famagusta, 99628, North Cyprus, Mersin 10, Turkey.
  Tel: +90 392 630 3809 **E-mail:** ibrahim.genc@emu.edu.tr
  Web: https://www.emu.edu.tr/en/campus/facilities/rauf-raif-denktas-culture-and-congress-center/services/1349

10.8 Eastern Mediterranean University Beach Club

Eastern Mediterranean University is fortunate indeed to have its own private Beach Club situated on the shores of one of the finest beaches in the Mediterranean. Situated within walking distance of the EMU campus, the Beach Club provides students with the opportunities to engage in all types of beach and water sports.

The Beach Club is used throughout the year for beach and pool parties and as a place of relaxation for both staff and students. A full restaurant service is available, and with a large swimming pool and family facilities, students are able to take full advantage of the Mediterranean climate in an exclusive high-class setting.

Activities include:

- Annual Sculpture Festival, Turtle Protection and Marine Environment Centre, Windsurfing, Sailing, Canoeing, Diving, Beach volleyball and football

- **Location and Contact:**

  Tel: +90 392 630 1111
  E-mail: info@emu.edu.tr

  Web: https://www.emu.edu.tr/en/campus/facilities/beach-club/1256