PMU | PARACELSUS
MEDICAL UNIVERSITY

Curriculum
Bachelor's and Master's Degree Programme in Pharmacy and Pharmaceutical Sciences

Academic Year 2027/28

The curriculum of the Bachelor's and Master's degree programme in Pharmacy and Pharmaceutical Sciences at Paracelsus Medical University (PMU), Salzburg campus, extends over five academic years: six semesters for the Bachelor's programme comprising 180 ECTS credits, and four semesters for the Master's programme comprising 120 ECTS credits, leading to the academic degrees "Bachelor of Science" (BSc) and "Magister*Magistra pharmaciae" (Mag. pharm.).

Features and distinguishing characteristics of the innovative practice-oriented curriculum:

- Scientific and pharmaceutical foundation
- Focus on patient- and customer-centred pharmaceutical care
- Strong practical orientation
- Additional expertise in business administration, communication, project management, quality management, law, etc.
- Strengthening of social, communication, methodological, self-management and ethical-moral competences
- Interprofessional collaboration with human medicine and nursing science is implemented through a dedicated interprofessional training ward at Salzburg University Hospital
- Preparation for all pharmaceutical career paths (community pharmacy, research, industry, hospital pharmacy), including compulsory placements in these professional fields and internships across all pharmaceutical sectors
- Sufficient laboratory and internship capacities, ensuring no waiting periods
- University-owned training pharmacy (including structured role-play)
- Option to undertake a research internship abroad

The curriculum is structured in modules to enable integrated learning of related content across individual courses. An overview of the modules is provided below:

Subject Areas	Bachelor						Master			
	1	2	3	4	5	6	7	8	9	10
Fundamentals										
Pharmaceutical Chemistry										
Pharmacology / Clinical Pharmacy										
Pharmaceutical Technology										
Scientific Competence										
Social and Communication Competence										
Business Administration										
Pharmaceutical Practical Courses										

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Bachelor's Degree Programme in Pharmacy and Pharmaceutical Sciences

Bachelor's Programme (1. Semester)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Fundamentals	ILV	Chemical Calculations and Stoichiometry	4.0
Fundamentals	SE	Seminar Chemical Calculations and Stoichiometry	1.5
Fundamentals	VO	General and Inorganic Chemistry	4.0
Fundamentals	VO	General Physics	2.0
Fundamentals	VO	Organic Chemistry A and Nomenclature	4.0
Fundamentals	VO	Genetics	2.0
Fundamentals	ILV	Propaedeutics & Skeletal System	1.5
Fundamentals	VO	General Biology and Botany	2.0
Fundamentals	ÜB	Practical Course in General Biology and Botany	3.0
Fundamentals	ILV	Mathematics and Statistics A	1.0
Business Administration	VO	History of Pharmacy	0.5
Scientific Competence	ILV	Beginners' Seminar	1.0
Scientific Competence	ILV	First Aid Course	1.0
Social and Communication Competence	ILV	English in Pharmacy	2.0
Social and Communication Competence	ILV	Social and Communication Competence A	0.5
			30.0

Bachelor's Programme (2. Semester)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Fundamentals	VO	General Immunology	3.0
Fundamentals	VO	Molecular Cell Biology for Pharmacists	2.0
Fundamentals	ILV	Tissues and Systematics of Human Organ Systems A	1.5
Fundamentals	ILV	Tissues and Systematics of Human Organ Systems B	2.5
Fundamentals	ILV	Tissues and Systematics of Human Organ Systems C	3.0
Fundamentals	VO	Neuroanatomy	2.0
Fundamentals	VO	Biochemistry und Pathobiochemistry	4.5
Fundamentals	ILV	Pathobiochemistry	0.5
Pharmaceutical Chemistry	ÜB	Basic Laboratory Course in Chemistry	8.0
Pharmaceutical Chemistry	VO	Organic Chemistry B	2.0
Scientific Competence	ILV	Scientific Competence A	1.0
			30.0

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Bachelor's Programme (3. Semester)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Fundamentals	VO	Pharmaceutical Biology	4.0
Fundamentals	VO	Neurophysiology	1.5
Fundamentals	ILV	Hematopoietic System	1.0
Fundamentals	VO	Gastrointestinal System	1.5
Fundamentals	VO	Respiratory System	1.0
Pharmacology	VO	Introduction to Pharmacokinetics	1.0
Pharmacology	ÜB	Practical Introduction to Pharmacokinetics	1.0
Pharmaceutical Chemistry	ÜB	Practical Course in Pharmacopoeial Analysis	6.0
Pharmaceutical Chemistry	ILV	Pharmacopoeial Analysis	2.0
Pharmaceutical Chemistry	VO	Fundamentals of Instrumental Analysis	4.0
Business Administration	VO	Business Administration for Pharmacists A	2.0
Business Administration	VO	The Austrian Healthcare System	2.0
Scientific Competence	ILV	Philosophy of Science	1.5
Social and Communication Competence	ILV	Interprofessional Collaboration Nursing – Pharmacy	1.0
Social and Communication Competence	ILV	Social and Communication Competence B	0.5
			30.0

Bachelor's Programme (4. Semester)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Fundamentals	ÜB/EX	Practical Course / Field Excursion in Pharmaceutical Biology	3.0
Fundamentals	ILV	Topographical Anatomy of the Human Body	1.5
Fundamentals	VO	General and Specific Pathology	1.5
Fundamentals	VO	Renal and Urinary System	1.0
Fundamentals	VO	Endocrine System	1.0
Fundamentals	VO	Cardiovascular System	1.0
Fundamentals	VO	Integumentary System	0.5
Fundamentals	VO	Musculoskeletal System	0.5
Fundamentals	ÜB	Practical Course in Physiology	0.5
Pharmacology	VO	General Pharmacology	2.0
Pharmaceutical Chemistry	ÜB	Instrumental Pharmacopoeial Analysis	6.0
Pharmaceutical Technology	VO	Pharmaceutical Drug Formulation	5.0
Pharmaceutical Technology	EX	Industrial Drug Manufacturing	1.0
Business Administration	VO	Business Administration for Pharmacists B	2.0
Business Administration	SE	Seminar Business Administration for Pharmacists	2.0
Scientific Competence	ILV	Scientific Competence B	1.0
Social and Communication Competence	ÜB	Social and Communication C	0.5
			30.0

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Bachelor's Programme (5. Semester)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Fundamentals	VO	Special Immunology	2.0
Fundamentals	SE	Seminar Special Immunology	1.0
Fundamentals	VO	Microbiology and Infectious Diseases	3.0
Fundamentals	ÜB	Laboratory Course in Microbiology and Hygiene	2.0
Pharmacology	VO	Special Pharmacology	3.0
Pharmacology	VO	Pharmaceutical Chemistry	3.0
Pharmaceutical Chemistry	ÜB	Laboratory Course in Applied Instrumental Analysis	6.0
Pharmaceutical Chemistry	SE	Companion Seminar Laboratory Course in Applied Instrumental Analysis	2.0
Pharmaceutical Chemistry	ÜB	Biochemical Methods in Drug Discovery	2.0
Pharmaceutical Technology	VO	Pharmaceutical Law	2.0
Pharmaceutical Technology	VO	Regulatory Foundations	3.0
Scientific Competence	ILV	Scientific Competence C	1.0
			30.0

Bachelor's Programme (6. Semester)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Fundamentals	VO	Fundamentals of Nutritional Science	3.0
Fundamentals	ILV	Fundamentals of Nutritional Medicine in Pharmacy	2.0
Pharmacology	ÜB	Practical Course in General Pharmacology	1.0
Pharmacology	ILV	Laboratory Tests and Their Interpretation	2.0
Pharmacology	SE	Pharmacovigilance	1.0
Pharmaceutical Technology	VO	Pharmaceutical Quality Management	5.0
Pharmaceutical Technology	SE	Introduction to Clinical Research	2.0
Scientific Competence	ILV	Evidence-Based Medicine	1.0
Scientific Competence	ILV	Scientific Competence D	1.0
Scientific Competence	-	Bachelor's Examination	1.0
Scientific Competence	SE	Bachelor's Seminar	0.5
Scientific Competence	PR	Bachelor's Thesis	8.5
Social and Communication Competence	ILV	Social and Communication Competence D	1.0
Social and Communication Competence	ILV	Social and Communication Competence E	1.0
			30.0

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Master's Degree Programme in Pharmacy and Pharmaceutical Sciences

Master's Programme (1. Semester)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Pharmacology	VO	Applied Pharmacology A	4.0
Pharmacology	VO	Applied Pharmacology B	4.0
Pharmaceutical Chemistry	VO	Drugs A	1.0
Pharmaceutical Chemistry	VO	Drugs B	1.0
Pharmaceutical Chemistry	VO	Drug Development	2.0
Pharmaceutical Chemistry	ILV	Computer-Assisted Drug Development	2.0
Pharmaceutical Technology	VO	Magistral Preparation of Dosage Forms	5.0
Pharmaceutical Technology	ÜB	Practical Course in Magistral Preparation of Dosage Forms	7.0
Social and Communication Competence	ILV	Fundamentals in Project Management	2.5
Social and Communication Competence	ILV	Social and Communication Competence F	1.5
			30.0

Master's Programme (2. Semester)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Pharmacology	VO	Applied Pharmacology C	3.5
Pharmacology	VO	Applied Pharmacology D	3.5
Pharmacology	ILV	Special Pharmacokinetics	5.0
Pharmacology	ILV	Mathematics and Statistics B	2.0
Pharmaceutical Chemistry	VO	Drugs C	1.5
Pharmaceutical Chemistry	VO	Drugs D	1.5
Pharmaceutical Technology	ILV	Pharmaceutical Technology	5.0
Social and Communication Competence	ILV	Fundamentals of Management and Leadership	3.0
Practical Internship	PR	Pharmacy Practice Simulation	5.0
			30.0

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Master's Programme (3. Semester)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Pharmacology	ILV	Introduction to Pharmaceutical Care and Clinical Pharmacy	4.0
Pharmacology	PR	Pharmaceutical Care and Clinical Pharmacy PR	8.0
Pharmacology	SE	Patient-Centred Counselling in Practice	1.0
Pharmacology	SE	Palliative Care	1.0
Pharmacology	VO	Medicines During Pregnancy and Breastfeeding	1.0
Pharmacology	VO	Medicines for Older People	1.0
Pharmacology	VO	Medicines for Children	1.0
Pharmacology	VO	Evidence-Based Medication Information	1.0
Pharmacology	ILV	Medication Management and Pharmaceutical Care	5.0
Social and Communication Competence	ILV	Social and Communication Competence G	1.0
			24.0

Master's Programme (4. Semester)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Scientific Competence	SE	Companion Seminar to the Research Internship	0.5
Scientific Competence	PR	Research Internship	9.5
Scientific Competence	PR	Master's Thesis	10.0
Scientific Competence	SE	Master's Seminar	2.0
Scientific Competence	--	Master's Examination	3.0
			25.0

Master's Programme (Practical Internships - Semester 3/4)			
Track	**Course Type**	**Course Title**	**ECTS Credits**
Internship	PR	Practical Training in Pharmacy	5.25
Internship	PR	Practical Training in Industry	5.25
Internship	SE	Seminar Pharmaceutical Practical Training	0.5
			11.0

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European Credit Transfer and Accumulation System (ECTS):
The European Credit Transfer and Accumulation System is a standardized framework for measuring and comparing academic achievement across higher education institutions within the European Higher Education Area. It facilitates the recognition of studies and supports student mobility by providing a transparent measure of workload and learning outcomes. One ECTS credit represents a student workload of approximately 25 to 30 hours, encompassing contact hours, and independent study, preparation, and assessment activities.

Course Types:

- VO (Vorlesung) = Lecture
- ILV (Integrierte Lehrveranstaltung) = Integrated course
- SE (Seminar) = Seminar
- PR (Praktikum) = Practical course
- EX (Exkursion) = Excursion / Field trip
- ÜB (Übung) = Laboratory course

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