

## Recommended STUDY PLAN

Two-year follow-up Master's study program **PHARMACEUTICAL SCIENCES 2024/2025**

### COMPULSORY SUBJECTS

#### 1<sup>st</sup> section of the study

Compulsory subjects	Guarantor	Number of lessons WS			Form of control	Number of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Physical Principles of Dosage Forms	Paraskevopoulos	28	0	0	E					2
Pharmaceutical Chemistry for Pharmaceutical Sciences I	Doležal	42	14	56	C					6
Pharmacology for Pharmaceutical Sciences I	Štaud	56	42	0	C					6
Natural Drugs I	Cahlíková					28	0	28	C	6
Pharmaceutical Analysis for Pharmaceutical Sciences I	Štěrbová					28	8	34	C	6
Dosage Forms I	Šklubalová					56	0	0	C	4
Pharmacology for Pharmaceutical Sciences II	Štaud					56	42	0	C+E	11
Pharmaceutical Chemistry for Pharmaceutical Sciences II	Doležal					42	14	0	C+E	11
NUMBER OF CREDITS FOR COMPULSORY COURSES:										<b>52</b>

**2<sup>nd</sup> section of the study**

Compulsory subjects	Guarantor	Number of lessons WS			Form of control	Number of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Pharmaceutical Analysis for Pharmaceutical Sciences II	Kučera	28	8	34	C+E					11
Natural Drugs II	Cahlíková	28	0	56	C+E					11
Dosage Forms II	Šklubalová	56	35	0	C+E					11
Advanced Statistics	Duintjer Tebbens	8	10	0	C					3
Diploma Thesis	Čečková	0	0	252	C	0	0	252	C	19
NUMBER OF CREDITS FOR COMPULSORY COURSES:										<b>55</b>

## ELECTIVE SUBJECTS

### 1<sup>st</sup> section of the study

Elective subjects	Guarantor	Number of lessons WS			Form of control	Number of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Xenobiochemistry	Wsól	28	14	0	C+E					3
Biological Drugs	Miletín	14	0	0	E					2
Special Methods of Instrumental Analysis (lessons) min. 5 students	Sklenářová	28	0	0	C					2
Special Methods of Instrumental Analysis (practical classes) min. 5 students	Sklenářová	0	6	36	C+E					4
Pathological Biochemistry for Pharmaceutical Sciences	Boušová					28	14	0	E	5
Xenobiochemistry - Practical Training	Wsól					0	0	28	C	2
Introduction to Applied Bioinformatics	Matoušková					0	28	0	C+E	2
Biotechnology	Siatka					28	0	14	C+E	3
The technology of Synthetic Drugs	Doležal					28	0	14	C+E	3
Advanced Separation Methods min. 5 students	Nováková L.					14	14	0	C+E	3
Immunopharmacology	Rathouská					28	14	0	C+E	3
Toxicology for Pharmaceutical Sciences	Pourová					28	0	0	E	2
Molecular Biology and Genetics	Šimůnek					42	0	14	C+E	4
NUMBER OF CREDITS FOR ELECTIVE COURSES:										<b>38</b>

**2<sup>nd</sup> section of the study**

Elective subjects	Guarantor	Number of lessons WS			Form of control	Number of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Basics of Molecular Modelling of Drugs	Zitko	14	14	0	C+E					3
Gene Therapy	Miletín	14	14	0	C+E					2
Bioanalysis of Drugs (CL 15)	Kučera	28	12	16	C+E					5
Current Strategies in Pharmacotherapy	Čečková	14	0	0	E					2
Development of Pharmaceutical Products (CL=2)	Smékalová	0	32	0	C+E					4
Industrial Production of Pharmaceutical Preparations (CL=2)	Smékalová					10	10	40	C+E	4
Selected Methods of Pharmaceutical Technology (CL=5)	Mužíková					0	14	28	C+E	4
Current Trends in the Development of Chemical Drugs	Kučerová					14	0	0	C	1
The technology of Natural Drugs	Suchánková					28	0	14	C+E	3
Experimental Pharmacodynamics	Carazo					14	0	28	C+E	3
Pharmacokinetics (CL 24) *	Červený					14	0	14	C+E	3
<b>NUMBER OF CREDITS FOR ELECTIVE COURSES:</b>										<b>34</b>

\* incl. students study program Pharmacy and Farmacie

### OPTIONAL SUBJECTS

Optional subjects	Guarantor	Number of lessons WS			Form of control	Number of lessons SS			Form of control	Nr. of credits	Recommended year
		L	S	P		L	S	P			
Physical Training and Sports I	Bezouška	0	0	28	C	0	0	28	C	2	1
Research Project	Štaud				C				C	6	1
Toxicity of Natural Compounds	Chlebek					42	0	0	E	3	2
Pathological Physiology for Pharmacists	Nachtigal					42	28	0	C+E	7	1
Radiopharmacy	Trejtnar	28	14	14	E					4	2
Phytopharmaceuticals and Nutraceuticals	Šafratová	28	0	0	E					3	2
NUMBER OF CREDITS FOR OPTIONAL SUBJECTS COURSES:											<b>25</b>

\* incl. students study program Pharmacy and Farmacie

### Conditions of FSE

Parts of FSE	Conditions for taking part of FSE	Recommended Section of Study
FSE 1 - Pharmaceutical Chemistry	Pharmaceutical Chemistry for Pharmaceutical Sciences II - exam	1 SS
FSE 2 - Pharmacology	Pharmacology for Pharmaceutical Sciences II - exam	1SS
FSE 3 - Dosage Forms	Dosage Forms II - exam	2WS
FSE 4 - Pharmaceutical Analysis	Pharmaceutical Analysis for Pharmaceutical Sciences II - exam	2WS
FSE 5 - Natural Drugs	Natural Drugs II - exam	2WS
FSE - Diploma Thesis Defense	120 credits, FSE 1-5	2SS

Normal number of credits for follow-up Master's study program **PHARMACEUTICAL SCIENCES**:

1<sup>st</sup> section of study (1st year) – 60 credits

2<sup>nd</sup> section of study (2nd year) – 120 credits