

## Two-year follow-up Master's study program PHARMACEUTICAL SCIENCES

### Compulsory subjects

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

Compulsory subjects	Guarantor	Number of lessons WS			Form of control	Nuber of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Physical Principles of Dosage Forms	Holas	28	0	0	E					2
Pharmaceutical Chemistry I	Doležal	42	14	56	C					5
Pharmacology I	Štaud	56	42	0	C					5
Natural Drugs I	Čahlíková					28	0	28	C	3
Pharmaceutical Analysis I	Štěrbová					28	8	34	C	3
Dosage Forms I	Šklubalová					56	0	0	C	2
Pharmacology II	Štaud					56	42	0	E	8
Pharmaceutical Chemistry II	Doležal					42	14	0	E	9

#### 2<sup>nd</sup> section of study

Compulsory subjects	Guarantor	Number of lessons WS			Form of control	Nuber of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Pharmaceutical Analysis II	Kučera	28	8	34	E					7
Natural Drugs II	Čahlíková	28	0	56	E					7
Dosage Forms II	Šklubalová	56	35	0	E					8
Advanced Statistics	Duintjer Tebbens	12	10	0	C					3
Pharmacokinetics	Čečková					14	0	14	E	3
Diploma Thesis	Čečková	0	0	252	C	0	0	252	E	17

### Elective subjects

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

Elective subjects	Guarantor	Number of lessons WS			Form of control	Nuber of lessons SS			Form of control	Nr. of credits
		L	S	P		L	S	P		
Xenobiochemistry	Wsól	28	14	0	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	E					4
Pathological Biochemistry for Pharmaceutical Sciences	Boušová	42	14	0	E					5
Xenobiochemistry - Practical Training	Wsól					0	0	28	C	2
Introduction to Applied Bioinformatics	Matoušková					0	28	0	E	2
Biotechnology	Siatka					28	0	14	E	3
Technology of Synthetic Drugs	Doležal					28	0	14	E	3
Advanced Separation Methods min. 5 students	Nováková L.					14	14	0	E	3
Immunopharmacology	Jílek					28	14	0	E	3
Toxicology for Pharmaceutical Sciences	Pouřova					14	0	0	E	2
Technology of Natural Drugs	Hulcová					28	0	14	E	3
Molecular Biology and Genetics	Šimůnek					42	0	14	E	4

#### 2<sup>nd</sup> section of study

Elective subjects	Guarantor	Number of lessons WS			Form of control	Nuber 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	E					3
Gene Therapy	Miletín	14	14	0	E					2
Bioanalysis of Drugs	Kučera	28	12	16	E					5
Industrial Production of Pharmaceutical Preparations (CL=5)	Šklubalová					10	10	40	E	4
Selected Methods of Pharmaceutical Technology (CL=5)	Mužiková					0	14	28	E	4
Current Strategies in Pharmacotherapy	Hofman	14	0	0	E					2
Development of Pharmaceutical Products CL=5	Šklubalová	0	32	0	E					4
Current Trends in the Development of Chemical Drugs	Kučerová					14	0	0	C	1
Advanced Pharmaceutical Analysis	Kučera					14	16	12	E	4

### Optional subjects

Optional subjects	Guarantor	Number of lessons WS			Form of control	Nuber 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	Roh				C				C	6	1
Toxicity of Natural Compounds	Chlebek					42	0	0	E	3	2
Pathological Physiology for Pharmacists	Nachtigal					42	28	0	E	7	1
Radiopharmacy	Trejtnar	28	14	14	E					4	2
Phytopharmaceuticals and Nutraceuticals	Šafratová	28	0	0	E					3	2