



**UNIVERSITY OF KRAGUJEVAC**  
**FACULTY OF MEDICAL SCIENCES**  
**INTEGRATED ACADEMIC STUDIES OF**  
**PHARMACY**



**Schedule of courses by semesters/years of study programme (from 2025)**

**FIRST YEAR**

No	Course code	Course title	Sem.	Classes of active teaching				Other classes	ECTS
				L	P	SRW	OAC		
1.	PHI01	General and inorganic chemistry	1	4	2	0	0	0	8
2.	PHI02	Pharmaceutical biology with genetics	1	3	2	0	0	0	7
3.	PHI04	Fundamentals of human morphology	1	3	2	0	0	0	7
4.	PHI09	Communication skills and ethics	1	1	2	0	0	0	4
5.	PHI10	Physical education	1	1	0	0	0	3	2
Total classes by type of teaching in the block				12	8	0	0	3	
Total classes of active teaching and ECTS credits in the block				20					28
Total teaching classes in the block				23					
6.	PHI05	Analytical chemistry	2	4	2	0	0	0	8
7.	PHI06	Organic chemistry 1	2	3	2	0	0	0	7
8.	PHI07	Fundamentals of human physiology	2	4	2	0	0	0	8
9.	PHI08	Introduction to pharmaceutical technology	2	2	2	0	0	0	5
10.	PHIIB1	Elective block 1 (4 credits are chosen)	2	2	1	0	0	0	4
	PHI22	English language in pharmaceutical practice	2	2	1	0	0	0	4
	PHI21	Introduction to pharmaceutical practice	2	2	1	0	0	0	4
Total classes by type of teaching in the block				15	9	0	0	0	
Total classes of active teaching and ECTS credits in the block				24					32
Total teaching classes in the block				24					
Total classes by type of teaching in the year				27	17	0	0	3	
Total classes of active teaching and ECTS credits in the year				44					60
Total teaching classes per year				47					

**SECOND YEAR**

No	Course code	Course title	Sem.	Classes of active teaching				Other classes	ECTS
				L	P	SRW	OAC		
11.	PHI11	Fundamentals of biochemistry	3	3	2	0	0	0	7
12.	PHI19	Pharmaceutical botany	3	2	2	0	0	0	5
13.	PHI13	Fundamentals of human pathophysiology	3	2	2	0	0	0	5
14.	PHI06	Organic chemistry 2	3	3	2	0	0	0	6
15.	PHI15	Immunology	3	2	2	0	0	0	5
Total classes by type of teaching in the block				12	10	0	0	0	
Total classes of active teaching and ECTS credits in the block				22					28
Total teaching classes in the block				22					
16.	PHI16	Pharmaceutical chemistry 1	4	3	3	0	0	0	6
17.	PHI14	Medicinal chemistry	4	3	2	0	0	0	7
18.	PHI17	Pharmacology 1	4	2	2	0	0	0	6
19.	PHI12	Methods of instrumental analysis	4	2	2	0	0	0	5
20.	PHIIB2	Elective block 2 (8 credits are chosen)	4	4	2	0	0	0	8
	PHI20	Pharmaceutical physical chemistry	4	2	1	0	0	0	4
	PHI23	Research in pharmaceutical science	4	2	1	0	0	0	4
	PHI36	Pharmaceutical chemistry of heterocyclic compounds	4	2	1	0	0	0	4
	PHI25	Medical biochemistry	4	2	1	0	0	0	4
Total classes by type of teaching in the block				14	11	0	0	0	
Total classes of active teaching and ECTS credits in the block				25					32
Total teaching classes in the block				25					
Total classes by type of teaching in the year				26	21	0	0	0	
Total classes of active teaching and ECTS credits in the year				47					60
Total teaching classes per year				47					

**THIRD YEAR**

No	Course code	Course title	Sem.	Classes of activeteaching				Other classes	ECTS
				L	P	SRW	OAC		
21.	PHI26	Pharmacognosy	5	3	3	0	0	0	7
22.	PHI27	Pharmaceutical chemistry 2	5	3	3	0	0	0	7
23.	PHI28	Microbiology for pharmacists	5	2	2	0	0	0	5
24.	PHI18	Pharmaceutical technology 1	5	3	2	0	0	0	6
25.	PHI30	Pharmacology 2	5	3	2	0	0	0	6
Total classes by type of teaching in the block				14	12	0	0	0	
Total classes of active teaching and ECTS credits in the block				26					31
Total teaching classes in the block				26					
26.	PHI31	Toxicology	6	2	1	0	1	0	4
27.	PHI32	Phytotherapy	6	2	1	0	1	0	4
28.	PHI33	Dispensing drugs in practice	6	2	1	0	1	0	4
29.	PHI29	Pharmaceutical technology 2	6	3	2	0	0	0	5
30.	PHI34	Nutrition	6	2	2	0	0	0	4
31.	PHIIB3	Elective block 3 (8 credits are chosen)	6	4	2	0	0	0	8
	PHI35	Drug discovery, designand development	6	2	1	0	0	0	4
	PHI24	Bioinformatics in pharmaceutical sciences	6	2	1	0	0	0	4
	PHI37	Phytochemistry	6	2	1	0	0	0	4
	PHI38	Radiopharmacy	6	2	1	0	0	0	4
	PHI39	Advancedpharmaceutical formulations	6	2	1	0	0	0	4
	PHI67	Toxicological chemistry	6	2	1	0	0	0	4
Total classes by type of teaching in the block				15	9	0	3	0	
Total classes of active teaching and ECTS credits in the block				27					29
Total teaching classes in the block				27					
Total classes by type of teaching in the year				29	21	0	3	0	
Total classes of active teaching and ECTScredits in the year				53					60
Total teaching classes per year				53					

**FOURTH YEAR**

No	Course code	Course title	Sem.	Classes of activeteaching				Other classes	ECTS
				L	P	SRW	OAC		
32.	PHI41	Pharmacotherapy	7	2	2	0	0	0	6
33.	PHI42	Pharmaceutical biotechnology	7	2	2	0	0	0	6
34.	PHI43	Bromatology	7	2	2	0	0	0	6
35.	PHI44	Biopharmacy	7	3	2	0	0	0	7
36.	PHI45	Cosmetology	7	3	2	0	0	0	6
Total classes by type of teaching in the block				12	10	0	0	0	
Total classes of active teaching and ECTS credits in the block				22					31
Total teaching classes in the block				22					
37.	PHI46	Social pharmacy and legislation	8	2	1	0	0	0	4
38.	PHI47	Clinical pharmacy 1	8	2	2	0	0	0	6
39.	PHI48	Biological drugs	8	2	1	0	1	0	5
40.	PHI49	Pharmacokinetics	8	2	2	0	1	0	6
41.	PHIIB4	Elective block 4 (8 credits are chosen)	8	4	2	0	0	0	8
	PHI50	Health safety control of food and dietary products	8	2	1	0	0	0	4
	PHI51	Sports pharmacy	8	2	1	0	0	0	4
	PHI52	Therapy of infectious diseases	8	2	1	0	0	0	4
	PHI53	Traditional and complementary medicine	8	2	1	0	0	0	4
	PHI54	Medication addiction and abuse	8	2	1	0	0	0	4
	PHI55	Immunization and vaccination	8	2	1	0	0	0	4
Total classes by type of teaching in the block				12	8	0	2	0	
Total classes of active teaching and ECTS credits in the block				22					29
Total teaching classes in the block				22					
Total classes by type of teaching in the year				24	18	0	2	0	
Total classes of active teaching and ECTScredits in the year				44					60
Total teaching classes per year				44					

**FIFTH YEAR**

No	Course code	Course title	Sem.	Classes of activeteaching				Other classes	ECTS
				L	P	SRW	OAC		
42.	PHI56	Clinical pharmacy 2	9	2	2	0	0	0	4
43.	PHI57	Industrial pharmacy	9	3	2	0	0	0	5
44.	PHI58	Pharmacoepidemiology	9	2	1	0	0	0	4
45.	PHI59	Pharmacovigilance	9	2	1	0	0	0	4
46.	PHI60	Drug analytics	9	3	2	0	0	0	5
47.	PHI61	Professional practice 1	9	0	0	0	0	10	4
Total classes by type of teaching in the block				12	8	0	0	10	
Total classes of active teaching and ECTS credits in the block				20					26
Total teaching classes in the block				30					
48.	PHI62	Interprofessional education	10	0	2	0	0	0	2
49.	PHI63	Statistics in pharmacy	10	2	2	0	0	0	4
50.	PHI64	Professional practice 2	10	0	0	0	0	10	4
51.	PHIIB5	Elective block 5 (8 credits are chosen)	10	4	2	0	0	0	8
	PHI65	Rational and safe use of herbal products	10	2	1	0	0	0	4
	PHI66	Dietary supplements	10	2	1	0	0	0	4
	PHI40	Ecotoxicology	10	2	1	0	0	0	4
	PHI68	Pharmaceuticalhospital practice	10	2	1	0	0	0	4
52.	PHI69	Final work - research	10	0	0	16	0	0	6
53.	PHI70	Final work - design and defense	10	0	0	0	0	6	10
Total classes by type of teaching in the block				6	6	16	0	16	
Total classes of active teaching and ECTS credits in the block				28					34
Total teaching classes in the block				44					
Total classes by type of teaching in the year				18	14	16	0	26	
Total classes of active teaching and ECTScredits in the year				48					60
Total teaching classes per year				74					

Sem – Semester; L – Lectures; P – Practice; SRW – Study research work; OAC – Other active classes