

Program of study

pharmacy

1st year

Semester	Course name	Number of hours	Lectures	Classes	Seminars	The course completion	ECTS
I	Anatomy	30	15	-	15	GC	2
	Biophysics	30	15	15	-	E	2
	Biology and Genetics	60	15	30	15	E	4
	Botany	90	30	45	15	E	7
	Analytical Chemistry I	42	30	12	-	E	2
	General and Inorganic Chemistry	105	30	45	30	E	7
	Latin Course	30	-	-	30	GC	2
	Mathematics	30	-	-	30	GC	2
	Information Technology	30	-	30	-	GC	2
II	Analytical Chemistry I	48	-	33	15	E	5
	Physical Chemistry	105	30	45	30	E	8
	General and Inorganic Chemistry	45	15	15	15	E	4
	Physiology and elements of ergonomy	90	15	45	30	E	7
	History of Philosophy	15	15	-	-	GC	1
	Foreign language (polish)	30	-	30	-	C	2
	Statistics	30	10	20	-	GC	2
	Oxygen and forced methods of body shaping	30	-	30	-	C	1
	Total	840	220	395	225	-	60

Where: E – exam, GC - graded credit, C - non-graded credit

2nd year

Semester	Course name	Number of hours	Lectures	Classes	Seminars	The course completion	ECTS
III	Biochemistry	45	15	15	15	C	3
	Analytical Chemistry II	90	30	60	-	E	7
	Organic Chemistry	105	30	60	15	C	7
	Immunology	30	15	15	-	GC	2
	Foreign language (polish)	30	-	30	-	C	2
	Pathophysiology	75	30	45	-	E	5
	Psychology and sociology	15	15	-	-	GC	1
	Recreation team plays or modern forms of fitness	30	-	30	-	C	1
IV	Biochemistry	60	15	30	15	E	5
	Molecular Biology	30	15	15 Dr	-	E	2
	Organic Chemistry	105	30	60	15	E	8
	Foreign language (polish)	30	-	30	-	C	2
	First aid	30	15	15	-	GC	2
	Microbiology	90	30	45	15	E	7
	Elective Subjects*	90	-	-	90	GC	6
	Total	855	240	450	165		60

Where: E – exam, GC - graded credit, C - non-graded credit

***Elective Subjects optional**

Semester III and IV	Course name	Total number of hours (seminars)	ECTS
Variant I			
III	<ul style="list-style-type: none"> • Laboratory animals and experimental procedures • Prevention and treatment of the tropical parasitic human diseases • Medical laboratory studies in pharmaceutical practice 	30	2
IV		30	2
IV		30	2
Variant II			
III	<ul style="list-style-type: none"> • Medical genetic • Diagnostic of selected parasitic human diseases • Sera and vaccines 	30	2
IV		30	2
IV		30	2

3rd year

Semester	Course name	Number of hours	Lectures	Classes	Seminars	The course completion	ECTS
V	Pharmaceutical chemistry	125	30	75	20	C	8
	Pharmacognosy	75	15	30	30	C	5
	History of pharmacy	15	5	-	10	GC	1
	Foreign language (polish)	30	-	30	-	E	2
	Synthesis and technology of drugs	75	30	30	15	E	5
	Pharmaceutical technology I	60	15	30	15	C	4
	Elective subject*	30	-	-	30	GC	2
VI	Pharmaceutical Chemistry	130	30	75	25	E	8
	Pharmacognosy	75	15	30	30	E	6
	Pharmaceutical technology I	75	15	45	15	E	5
	Toxicology	90	30	45	15	E	7
	Elective subjects*	30	-	-	30	GC	2
	One-month Summer Practice at Open Pharmacy	160	-	160	-	GC	5
	Total	970	185	550	235		60

Where: E – exam, GC - graded credit, C - non-graded credit

***Elective Subjects**

Semester V and VI	Course name	Total number of hours (seminars)	ECTS
V	• Apitherapy and apitoxinotherapy	30	2
	• Prebiotics and probiotics	30	2
	• Medical plants	30	2
VI	• Hormones and biopreparations	30	2
	• History of herbal medicine	30	2

4th year

Semester	Course name	Number of hours	Lectures	Classes	Seminars	The course completion	ECTS
VII	Biopharmacy	45	15	15	15	E	3
	Bromatology	75	15	45	15	E	6
	Pharmacokinetics	30	-	20	10	GC	2
	Pharmacology and pharmacodynamics	100	30.	10.	60	C	7
	Pharmaceutical technology II	75	15	45	15	C	5
	Pharmacoepidemiology	30	15	15.	-	GC	2
	Diagnostic aspects of pharmaceutical care	30	15	15	-	GC	2
	Elective subjects*	30	-	-	30	GC	2
VIII	Biotransformation and metabolism of drug	75	30	15	30	E	5
	Pharmacology and pharmacodynamics	110	30.	20	60.	E	9
	Pharmacoeconomics	30	15.	-	15	GC	2
	Degradable polymers in medicine	15	5	-	10	GC	1
	Pharmaceutical technology II	60	15	30	15	E	5
	Elective subjects*	60	-	-	60	GC	4
	One-month Summer Practice at Open Pharmacy	-	-	160	-	GC	5
	Total	765	200	390	335	-	60

***Elective Subjects**

Semester VII and VIII	Course name	Total number of hours (seminars)	ECTS
VII	• Biomaterials in medicine and pharmacy	30	2
	• Industrial pharmacy	30	2
	• Radiopharmaceuticals	30	2
	• Environmental health risks	30	2
VIII	• Fundamentals of drug design	30	2
	• Dermocosmetics	30	2
	• Medical products and medical geses	30	2
	• Pharmacology of metabolic disorders	30	2
	• Pharmacology of chosen degenerative and malignant diseases	30	2
	• Drugs and pharmaceuticals in ophtalmology	30	2
	• Veterinary medicines	30	2
	• Psychoactive substances	30	2
	• Therapeutic drugs	30	2

5th year

Semester	Course name	Number of hours	Lectures	Classes	Seminars	The course completion	ECTS
IX	Pharmaceutical biotechnology	30	-	30	-	GC	2
	Professional ethics	30	15	-	15	E	2
	Practical pharmacy	45	-	45	-	GC	3
	Hospital pharmacy	30	15	15	-	GC	2
	Pharmacotherapy and information about medication	60	30	-	30	E	4
	Drugs of natural origin	30	15	-	15	GC	2
	Pharmaceutical law	30	15	-	15	GC	2
	Pharmaceutical technology III	60	30	15	15	E	5
	Elective Subjects*	30	-	-	30	GC	2
	Scientific research methodology and specialist exercises	165	-	165	-	C	6
X	Pharmaceutical care	30	-	30	-	GC	2
	Scientific research methodology and specialist exercises	210	-	210	-	C	8
	MSc thesis and final examination	-	-	-	-	E	20
	Total	750	120	510	120	-	60

***Elective Subjects**

Semester IX	Course name	Total number of hours (seminars)	ECTS
IX	• Pharmaceutical care	30	2
	• Gene therapy	30	2
	• The molecular basis of drug resistance	30	2
	• Propagation in vitro and transgenesis of plants in biopharmaceutical synthesis	30	2
	• Phagotherapy as an alternative towards antibiotics	30	2