P l a n of Study

Faculty offering the field of study:	**Faculty of Pharmacy**
Field of study:	**Pharmacy**
Level of qualification:	**long-cycle studies**
Level in the Polish Qualifications Framework:	**level 7**
Degree profile:	**general academic**
Mode of study:	**full-time**
Number of semesters:	**10**
Number of ECTS credits required to complete a programme at a given level:	**304**
Total number of didactic hours:	**4842**

[1] ZO – credit with a grade, Z – credit, E – examination.

Tutorials - in 20-30-person groups (in course groups D-F up to 12 persons)
Laboratories – in 8-15-person groups
Seminars -in 20-30-person groups

I semester

Course groups	Course	Course code in USOS	ECTS points number	No. of teaching hours involving direct participation of teacher or other instructor - per form of classes					General number of hours	Form of credit[1]
				W/Lectures	Ćw/Tutorials	Lab./Laboratories	Lektorat/Foreign language class	S/Seminars		
A Biomedical Basics of Pharmacy	**Anatomy** Dept. of Anatomy		2	13		12			25	ZO
A Biomedical Basics of Pharmacy	**Plant and Animal Biology (1/2)** Dept. of Pharmaceutical Botany and Pharmacognosy		3	15	10	24			49	Z
B Physiochemical Basics of Pharmacy	**General and Inorganic Chemistry** Dept. of Inorganic and Analytical Chemistry		7	20		90			110	E
A Biomedical Basics of Pharmacy	**Physiology** Dept. of Physiology		4	25		35			60	E
A Biomedical Basics of Pharmacy	**Parasitology** Dept. of Biology and Medical Biochemistry		1	5		10			15	ZO
A Biomedical Basics of Pharmacy	**Genetics** Dept. of Biology and Medical Biochemistry		1	10		10			20	ZO
C Humanistic and Social Basics of Pharmacy	**History of Philosophy** Dept. of Medical Communication and Medical Humanities		1		10				10	ZO
C Humanistic and Social Basics of Pharmacy	**Latin** Centre for Specialised Languages in Medicine		3				40		40	ZO
F Pharmaceutical Practice	**Introduction to Pharmacy** Dept. of Pharmacy Practice		2	10				10	20	ZO
B Physiochemical Basics of Pharmacy	**Statistics with Elements of Mathematics** Dept. of Biostatistics and Biomedical Systems Theory		4	20		30		10	60	ZO
Other	**Elements of Occupational Health, Safety and Ergonomics** CM Section for Health Safety and Fire Protection	9001-eBHP	0	8 (e-learning) deadline: 31 October					8	Z
Other	**Library Orientation**	1700-F1-BIB-J	0	2				2	4	Z
Physical Education	**Physical Education CM Centre for Physical Education and Sport**		0		30				30	Z
Course Selection	**Elective Courses/ University-Wide Courses**		2	30					30	ZO
		Total:	**30**	**150**	**50**	**211**	**40**	**22**	**481**	

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Tutorials - in 20-30-person groups (in course groups D-F up to 12 persons)
Laboratories – in 8-15-person groups
Seminars -in 20-30-person groups

II semester

Course groups	Course	Course code in USOS	ECTS points number	No. of teaching hours involving direct participation of teacher or other instructor - per form of classes						General number of hours	Form of credit[1]
				W/Lectures	Ćw/Tutorials	Lab./Laboratories	Lektorat/Foreign language class	S/Seminars	Zaj. Terenowe/praktyczne/Field/Practical Classes		
A Biomedical Basics of Pharmacy	**Biology (2/2)** Dept. of Pharmaceutical Botany and Pharmacognosy		3	10		26			10	46	E
B Physicochemical Basics of Pharmacy	**Organic Chemistry (1/2)** Dept. of Organic Chemistry		6	20		60				80	Z
B Physicochemical Basics of Pharmacy	**Biophysics** Dept. of Biophycis		2	12		23				35	ZO
F Pharmacy Practice	**Advanced First Aid** Department of Emergency Medical Services and Critical Care Nursing		3	20		20				40	ZO
B Physicochemical Basics of Pharmacy	**Analytical Chemistry** Dept. of Inorganic and Analytical Chemistry		6	20		80				100	E
C Humanistic and Social Basics of Pharmacy	**Foreign Language (1/3)** Centre for Specialised Languages in Medicine		3				45			45	Z
B Physicochemical Basics of Pharmacy	**Physical Chemistry** Dept. of Physical Chemistry		5	20	10	45				75	E
B Physicochemical Basics of Pharmacy	**Information Technologyy** Dept. of Biostatistics and Biomedical Systems Theory		1			20				20	ZO
C Humanistic and Social Basics of Pharmacy	**Psychology** Dept. of Clinical Neuropsychology		1		10					10	ZO
Physical Education	**Physical Education** CM Centre for Physical Education and Sport		0		30					30	Z
		Total:	**30**	**102**	**50**	**274**	**45**	**80**	**10**	**481**	

[1] ZO – credit with a grade, Z – credit, E – examination.

Tutorials - in 20-30-person groups (in course groups D-F up to 12 persons)
Laboratories – in 8-15-person groups
Seminars -in 20-30-person groups

III semester

Course groups	Course	Course code in USOS	ECTS points number	No. of teaching hours involving direct participation of teacher or other instructor - per form of classes						General number of hours	Form of credit[1]
				W/ Lectures	Ćw/Tutorials	Lab./ Laboratories	Lektorat/ Foreign language class	S/Seminars	Zaj. Terenowe/ praktyczne /Field/Practical Classes		
B Physicochemical Basics of Pharmacy	**Organic Chemistry** Dept. of Organic Chemistry		4			75				75	E
A Biomedical Basics of Pharmacy	**General Biochemistry** Dept. of Clinical Biochemistry		6	30		60				90	E
C Humanistic and Social Basics of Pharmacy	**Foreign Language (2/3)** Centre for Specialised Languages in Medicine		3				45			45	Z
D Drug Analysis, Synthesis and Technology	**Pharmacognosy (1/2)** Dept. of Pharmaceutical Botany and Pharmacognosy		4	30		30		15		75	Z
D Drug Analysis, Synthesis and Technology	**Drug Chemistry** Dept. of Medicinal Chemistry		6	40	50					90	E
D Drug Analysis, Synthesis and Technology	**Drug Analysis (1/2)** Dept. of Medicinal Chemistry					75				75	Z
C Humanistic and Social Basics of Pharmacy	**History of Pharmacy** Dept. of Perinatology, Gynaecology and Gynaecologic Oncology		1		10					10	ZO
C Humanistic and Social Basics of Pharmacy	**Sociology** Dept. of Medical Communication and Medical Humanities		1		10					10	ZO
Course Selection	**Elective Courses/ University-Wide Courses**		2	30						30	ZO
		Total:	**31**	**130**	**70**	**240**	**45**	**15**		**500**	

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Tutorials - in 20-30-person groups (in course groups D-F up to 12 persons)
Laboratories – in 8-15-person groups
Seminars -in 20-30-person groups

IV semestr

Course groups	Course	Course code in USOS	ECTS points number	No. of teaching hours involving direct participation of teacher or other instructor - per form of classes						General number of hours	Form of credit[1]
				W/ Lectures	Ćw/Tutorials	Lab./ Laboratories	Lektorat/ Foreign language class	S/Seminars	Zaj. Terenowe/ praktyczne /Field/Practical Classes		
D Drug Analysis, Synthesis and Technology	**Drug Analysis (2/2)** Dept. of Medicinal Chemistry		5		10	75				85	ZO
D Drug Analysis, Synthesis and Technology	**Pharmacognosy(2/2)** Dept. of Pharmaceutical Botany and Pharmacognosy		5			40		20		75	E
F Pharmacy Practice	**Public Health** Dept. of Pharmacy Practice		1	10				5		15	ZO
E Biopharmacy and Drug Effects	**Pharmacokinetics** Dept. of Biopharmacy		4	15		45				60	E
A Biomedical Basics of Pharmacy	**Molecular Biology** Dept. of Forensic Medicine		2	10		20				30	ZO
A Biomedical Basics of Pharmacy	**Immunology** Dept. of Immunology		2	18		12				30	ZO
A Biomedical Basics of Pharmacy	**Clinical Biochemistry** Dept. of Clinical Biochemistry		2	12		13				25	ZO
C Humanistic and Social Basics of Pharmacy	**Foreign Language (3/3)** Centre for Specialised Languages in Medicine		3				50			50	E
E Biopharmacy and Drug Effects	**Analytical Metrology and Chemometrics in the Pharmaceutical Sciences** Dept. of Inorganic and Analytical Chemistry		2	10	20					30	ZO
C Humanistic and Social Basics of Pharmacy	**Protection of Intellectual Pharmacy** Dept. of Law and Health Policy		1	10						10	ZO
Course Selection	**Elective Courses/University-Wide Courses**		1	15						15	ZO
Course Selection Group supplementing knowledge and skills in course groups D–F	**Elective Courses**		1	15						15	ZO
		Total:	**29**	**130**	**30**	**205**	**50**	**25**		**440**	

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Tutorials - in 20-30-person groups (in course groups D-F up to 12 persons)
Laboratories – in 8-15-person groups
Seminars -in 20-30-person groups

V semester

Course groups	Course	Course code in USOS	ECTS points number	No. of teaching hours involving direct participation of teacher or other instructor - per form of classes						General number of hours	Form of credit[1]
				W/ Lectures	Ćw/Tutorials	Lab./ Laboratories	Lektorat/ Foreign language class	S/Seminars	Zaj. Terenowe/praktyczne/Field/Practical Classes		
D Drug Analysis, Synthesis and Technology	**Synthesis and Technology of Pharmaceutical Substances** Dept. of Chemical Technology of Pharmaceuticals		6	30		48		12		90	E
A Biomedical Basics of Pharmacy	**Microbiology** Dept. of Microbiology		4	25		45				70	ZO
E Biopharmacy and Drug Effects	**Toxicology** Dept. of Toxicology and Bromatology		6	30		60				90	E
E Biopharmacy and Drug Effects	**Pharmacology and Phrmacodynamics I** Dept. of Pharmacodynamics and Molecular Pharmacology		3	30	15					45	ZO
A Biomedical Basics of Pharmacy	**Pathophysiology** Dept. of Pathophysiology		4	25		40				65	ZO
D Drug Analysis, Synthesis and Technology	**Drug Form Technology I (1/2)** Dept. of Drug Form Technology		6	25		75				100	Z
Course Selection Group supplementing knowledge and skills in course groups D–F	**Elective Courses**		1	15						15	ZO
		Total:	**30**	**180**	**15**	**268**		**12**		**475**	

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Tutorials - in 20-30-person groups (in course groups D-F up to 12 persons)
Laboratories – in 8-15-person groups
Seminars -in 20-30-person groups

VI semester

Course groups przedmiotów	Course	Course code in USOS	ECTS points number	No. of teaching hours involving direct participation of teacher or other instructor - per form of classes						General number of hours	Form of credit[1]
				W/ Lectures	Ćw/Tutorials	Lab./ Laboratories	Lektorat/Foreign language class	S/Seminars	Zaj. Terenowe/praktyczne/Field/Practical Classes		
E Biopharmacy and Drug Effects	**Pharmacology and Phrmacodynamics II (1/2)** Dept. of Pharmacodynamics and Molecular Pharmacology		6	45		45				90	Z
E Biopharmacy and Drug Effects	**Bromatology** Dept. of Bromatology and Toxicology		5	30		45				75	E
E Biopharmacy and Drug Effects	**Plant Medicines** Dept. of Pharmaceutical Botany and Pharmacognosy		3	15		15		15		45	ZO
Course Selection Group supplementing knowledge and skills in course groups D–F	**1) Pharmaceutical Entreprenurship and Pharmacy Mamangement** or: **2) Basics of Computer-Aided Drug Design and Molecular Modelling** (Student's choice) Dept. of Organic Chemistry		3	20	20					40	ZO
F Pharmacy Practice	**Basics of Pharmacy Practice** Dept. of Pharmacy Practice		2	10	15					25	ZO
D Drug Analysis, Synthesis and Technology	**Pharmaceutical Biotechnology** Dept. Pharmacodynamics and Molecular Pharmacology		2	18		12				30	ZO
D Drug Analysis, Synthesis and Technology	**Drug Form Technology I (2/2)** Dept. of Drug Form Technology		4			50			20	70	E
H Work Placement	**Work Placement in a Community Pharmacy** Dept. of Drug Form Technology		7				160			160	Z
Course Selection Group supplementing knowledge and skills in course groups D–F	**Elective Courses**		1	15						15	ZO
		Total:	**33**	**153**	**35**	**167**	**160**	**15**	**20**	**550**	

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Tutorials - in 20-30-person groups (in course groups D-F up to 12 persons)
Laboratories – in 8-15-person groups
Seminars -in 20-30-person groups

VII semester

Course groups	Course	Course code in USOS	ECTS points number	No. of teaching hours involving direct participation of teacher or other instructor - per form of classes						General number of hours	Form of credit[1]
				W/ Lectures	Ćw/Tutorials	Lab./ Laboratories	Lektorat/ Foreign language class	S/Seminars	Zaj. Terenowe/praktyczne/Field/Practical Classes		
E Biopharmacy and Drug Effects	**Pharmacology and Phrmacodynamics II (2/2)** Dept. of Pharmacodynamics and Molecular Pharmacology		6	45		45				90	E
F Pharmacy Practice	**Pharmacoepidemiology** Dept. of Nutrition and Dietetics		3	20	20					40	ZO
F Pharmacy Practice	**Pharmacoeconomics** Dept. of Pharmacy Practice		3	25	15					40	ZO
F Pharmacy Practice	**Pharmacy Practice (1/2)** Dept. of Pharmacy Practice		4	10		30		15	10	65	Z
Course Selection Group supplementing knowledge and skills in course groups D–F	**1) Quality by Design (QbD) – Tools and Applications in Pharmacy** or **2) Clinical Trials – Basics and Organisation** (Student's choice) Dept. of Inorganic and Analytical Chemistry		3	20	20					40	ZO
D Drug Analysis, Synthesis and Technology	**Drug Formulation Technology II (1/2)** Dept. of Drug Formulation Technology		7	25		50			25	100	Z
E Biopharmacy and Drug Effects	**Biopharmacy** Dept. of Biopharmacy		6	25		60				85	E
		Total:	**32**	**170**	**55**	**185**		**15**	**35**	**460**	

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Tutorials - in 20-30-person groups (in course groups D-F up to 12 persons)
Laboratories – in 8-15-person groups
Seminars -in 20-30-person groups

VIII semester

Course groups	Course	Kod przedmiotu w USOS	ECTS points number	No. of teaching hours involving direct participation of teacher or other instructor - per form of classes						General number of hours	Form of credit[1]
				W/ Lectures	Ćw/Tutorials	Lab./ Laboratories	Lektorat/ Foreign language class	S/Seminars	Zaj. Terenowe/praktyczne/Field/Practical Classes		
F Pharmacy Practice	**Pharmacotherapy** Dept. of Pharmacodynamics and Molecular Pharmacology		2	15	14				6	35	ZO
F Pharmacy Practice	**Drug Information** of Pharmacodynamics and Molecular Pharmacology		3	10	15	25				50	E
F Pharmacy Practice	**Clinical Pharmacy** Dept. of Cardiology and Clinical Pharmacology		3	24				15	6	45	ZO
G Scientific Research Methodology	**Specialised Tutorials and Research Methodology (1/2)**		2			20				20	Z
F Pharmacy Practice	**Pharmaceutical Care (1/2)** Dept. of Pharmacy Practice		3	10		30			10	50	Z
F Pharmacy Practice	**Pharmacy Practice (2/2)** Dept. of Pharmacy Practice		4	10		45			10	65	E
C Humanistic and Social Basics of Pharmacy	**Professional Ethics** Dept. of Medical Communication and Medical Humanities		1		15					15	ZO
D Drug Analysis, Synthesis and Technology	**Drug Form Technology II (2/2)** Dept. of Drug Form Technology		3	15		30				45	E
H Work Placement	**Work Placement in a Hospital Pharmacy** Dept. of Drug From Technology		7				160			160	Z
Course Selection Group supplementing knowledge and skills in course groups D–F	**Elective Courses**		1	15						15	ZO
		Total:	**29**	**99**	**44**	**150**	**160**	**15**	**32**	**500**	

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Tutorials - in 20-30-person groups (in course groups D-F up to 12 persons)
Laboratories – in 8-15-person groups
Seminars -in 20-30-person groups

IX semester

Course groups	Course	Kod przedmiotu w USOS	ECTS points number	No. of teaching hours involving direct participation of teacher or other instructor - per form of classes						General number of hours	Form of credit[1]
				W/Lectures	Ćw/Tutorials	Lab./Laboratories	Lektorat/Foreign language class	S/Seminars	Zaj. Terenowe/praktyczne/Field/Practical Classes		
F Pharmacy Practice	**Pharmaceutical Law** Dept. of Pharmacy Practice		3	30	25					55	E
F Pharmacy Practice	**Pharmaceutical Care (2/2)** Dept. of Pharmacy Practice		4	10		45			10	65	E
G Scientific Research Methodology	**Specialised Tutorials and Research Methodology (2/2)**		18				120			120	ZO
G Scientific Research Methodology	**Master's Thesis Seminar (1/2)**		4					40		40	Z
Course Selection Group supplementing knowledge and skills in course groups D–F	**1) Systematic Reviews and Meta-analyses in the Evalution of Drug Efficacy** or **2) Biostatistics in Clinical Trials** (Student's choice) Dept. of Biostatistics and Biomedical Systems Theory		1			15				15	ZO
		Total:	**30**	**40**	**25**	**60**	**120**	**40**	**10**	**295**	

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Tutorials - in 20-30-person groups (in course groups D-F up to 12 persons)
Laboratories – in 8-15-person groups
Seminars -in 20-30-person groups

X semestr

Course groups	Course	Course code in USOS	ECTS points number	No. of teaching hours involving direct participation of teacher or other instructor - per form of classes						General number of hours	Form of credit[1]
				W/ Lectures	Ćw/Tutorials	Lab./ Laboratories	Lektorat/ Foreign language class	S/Seminars	Zaj. Terenowe/praktyczne/Field/ Practical Classes		
G Scientific Research Methodology	**Master's Thesis Seminar (2/2)**		2					20		20	ZO
H Work Placement	**Work Placement in a Community Pharmacy, Hospital Pharmacy or an Institutional Pharmacy** Dept. of Drug Form Technology		28				640			640	Z
		Total:	**30**				**640**	**20**		**680**	

The plan of study becomes effective from the 1st semester of the academic year 2026/2027

Dean of the Faculty of Medicine
/ - /
dr hab. Marek Foksiński, prof. UMK

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