

**CURRICULUM OVERVIEW - PHARM.D PROGRAM**

FIRST YEAR									
No.	Course	Course coordinator	Chair or Department	Annual load				ECTS	Exam or pass/fail
				Total	Lectures	Practicals	Seminars		
1	BIOLOGY & BOTANY I+II	Prof. Jaromir Budzianowski MSc, PhD	Chair and Department of Pharmaceutical Botany and Plant Biotechnology	150	42	84	24	18	Exam
2	BIOPHYSICS	Marek Tuliszka MD, PhD	Chair and Department of Biophysics	30	0	30	0	5	pass/fail
3	MATHEMATICS & STATISTICS	Prof. Jerzy Moczko MD, PhD	Chair and Department of Computer Science and Statistics	60	0	60	0	4	pass/fail
4	FIRST AID	Assoc. Prof. Małgorzata Grześkowiak MD, PhD	Department of Teaching Anesthesiology and Intensive Therapy	15	0	9	6	1	pass/fail
5	GENERAL CHEMISTRY I+II	Prof. Zenon J. Kokot MSc, PhD	Chair and Department of Inorganic and Analytical Chemistry	150	40	81	29	18	Exam
6	MEDICAL ANATOMY	Prof. Małgorzata Bruska MD, PhD	Chair and Department of Human Anatomy	30	15	15	0	4	pass/fail
7	HISTORY OF PHARMACY	Prof. Anita Magowska MSc, PhD	Chair and Department of History of Medical Sciences	15	0	0	15	1	pass/fail
8	POLISH LANGUAGE I+II	Maria Nowosadko ThD	Department of Foreign Language Tuition	60	0	0	60	4	pass/fail
9	PHYSICAL TRAINING I+II	Janusz Przybylski MA, PhD	Department of Physical Training	60	0	0	60	2	pass/fail
10	LIBRARY FACILITIES USE INSTRUCTION	Iwona Stebner, MA	PUMS Main Library	10	0	0	10	0	pass/fail
11	OCCUPATIONAL HEALTH AND SAFETY TRAINING	Arkadiusz Radek, MA	Health & Safety Unit	5	5	0	0	0	pass/fail
12	ELECTIVE COURSES			45	0	0	45	3	pass/fail
	<b>TOTAL</b>			<b>630</b>	<b>102</b>	<b>279</b>	<b>249</b>	<b>60</b>	<b>2 examinations</b>

**SECOND YEAR**

SECOND YEAR									
No.	Course	Course coordinator	Chair or Department	Annual load				ECTS	Exam or pass/fail
				Total	Lectures	Practicals	Seminars		
1	CHEMICAL, INSTRUMENTAL & PHARMACEUTICAL ANALYSIS I+II	Prof. Zenon J. Kokot MSc, PhD	Chair and Department of Inorganic and Analytical Chemistry	180	45	105	30	15	Exam
2	PHYSICAL CHEMISTRY I+II	Prof. Franciszek Główka MSc, PhD	Chair and Department of Physical Pharmacy and Pharmacokinetics	105	30	60	15	12	Exam
3	ORGANIC CHEMISTRY I+II	Assoc. Prof. Marek K. Bernard MSc, PhD	Chair and Department of Organic Chemistry	210	90	90	30	18	Exam
4	MICROBIOLOGY	Jolanta Długaszewska MSc, PhD	Chair and Department of Genetics and Pharmaceutical Microbiology	90	15	75	0	6	Exam
5	COMPUTER APPLICATION TO PHARMACY	Prof. Jerzy Moczko MD, PhD	Chair and Department of Computer Science and Statistics	30	0	30	0	2	pass/fail
6	POLISH LANGUAGE III+IV	Maria Nowosadko ThD	Department of Foreign Language Tuition	60	0	0	60	4	pass/fail
7	ELECTIVE COURSES			45	0	0	45	3	pass/fail
	<b>TOTAL</b>			<b>720</b>	<b>180</b>	<b>360</b>	<b>180</b>	<b>60</b>	<b>4 examinations</b>

**THIRD YEAR**
**Annual load**

No.	Course	Course coordinator	Chair or Department	Total	Lectures	Practicals	Seminars	ECTS	Exam or pass/fail
1	PHARMACOLOGY I+II	Prof. Przemysław Mikołajczak MSc, PhD	Chair and Department of Pharmacology	100	50	0	50	7	pass/fail
2	PHARMACOGNOSY & NATURAL DRUGS	Assoc. Prof. Przemysław Zalewski MSc, PhD	Chair and Department of Pharmacognosy	50	14	22	14	4	Exam
3	INTRODUCTION TO APPLIED PHARMACY	Magdalena Waszyk-Nowaczyk, MSc, PhD	Unit of Applied Pharmacy	60	0	40	20	4	pass/fail
4	PHYSIOLOGICAL AND PATHOPHYSIOLOGICAL BASIS FOR THERAPEUTICS I+II	Prof. Andrzej Bręborowicz MD, PhD	Chair and Department of Pathophysiology	150	86	0	64	10	Exam
5	PHARMACEUTICAL TECHNOLOGY I+II	Barbara Jadach MSc, PhD	Chair and Department of Pharmaceutical Technology	85	15	50	20	5	Exam
7	PATIENT CARE I+II	Danuta Szkutnik-Fiedler MSc, PhD	Chair and Department of Clinical Pharmacy and Biopharmacy	50	12	38	0	4	pass/fail
8	BIOCHEMISTRY	Prof. Wanda Baer-Dubowska, MSc, PhD	Chair of Pharmaceutical Biochemistry	105	30	45	30	8	Exam
9	MOLECULAR BIOLOGY	Prof. Wanda Baer-Dubowska, MSc, PhD	Chair of Pharmaceutical Biochemistry	30	0	10	20	1,5	pass/fail
10	BIOTECHNOLOGY	Prof. Jaromir Budzianowski MSc, PhD	Chair and Department of Pharmaceutical Botany and Plant Biotechnology	30	15	15	0	1,5	pass/fail
11	HYGIENE & EPIDEMIOLOGY	Assoc. Prof. Daniel Zielonka MD, PhD	Department of Hygiene	20	0	0	20	1	pass/fail
12	POLISH LANGUAGE	Maria Nowosadko ThD	Department of Foreign Language Tuition	30	0	0	30	1	pass/fail
13	VACATION PLACEMENT	Dr n. farm. Andrzej Czyrski	Chair and Department of Physical Pharmacy and Pharmacokinetics	160	0	160	0	5	pass/fail
14	ELECTIVES COURSES			60	0	0	60	4	pass/fail
	<b>TOTAL</b>			<b>930</b>	<b>222</b>	<b>380</b>	<b>328</b>	<b>56</b>	<b>4 examinations</b>

#### FOURTH YEAR

No.	Course	Course coordinator	Chair or Department	Annual load				ECTS	Exam or pass/fail
				Total	Lectures	Practicals	Seminars		
1	MEDICINAL CHEMISTRY I+II	Prof. Anna Jelińska MSc, PhD	Chair and Department of Pharmaceutical Chemistry	220	48	142	30	14	Exam
2	PHARMACOLOGY III+IV	Prof. Przemysław Mikołajczak MSc, PhD	Chair and Department of Pharmacology	100	50	0	50	7	Exam
3	PHARMACOKINETICS	Prof. Franciszek Główka MSc, PhD	Chair and Department of Physical Pharmacy and Pharmacokinetics	35	14	21	0	4	Exam
4	EVIDENCE BASE FOR PHARMACY PRACTICE	Assoc. Prof. Agnieszka Bienert MSc, PhD	Chair and Department of Clinical Pharmacy and Biopharmacy	60	0	0	60	4	pass/fail
5	CLINICAL NUTRITION AND HEALTH PROMOTION	Ilona Górna MSc PhD	Chair and Department of Food Science	70	30	33	7	4	Exam
6	COMMUNICATION, BEHAVIOR AND ETHICS IN	Prof. Anita Magowska MSc, PhD	Chair and Department of History of Medical Sciences	30	10	0	20	2	pass/fail
7	PATIENT CARE III+IV	Assoc. Prof. Edyta Szalek MSc, PhD	Chair and Department of Clinical Pharmacy and Biopharmacy	50	12	38	0	4	pass/fail
8	TOXICOLOGY	Assoc. Prof. Marek Murias MSc, PhD	Chair and Department of Toxicology	80	17	56	7	4	Exam
9	PUBLIC HEALTH	Ewelina Wierzejska MSc, PhD	Chair and Department of Health Prophylaxis, Unit of International Health	20	3	14	3	1	pass/fail
10	ADVANCED PHARMACOTHERAPY I: CARDIOLOGY	Artur Radziemski MD, PhD	Chair and Department of Hypertensiology, Angiology and Internal Medicine	25	0	17	8	2	pass/fail
	ADVANCED PHARMACOTHERAPY I: GASTROENTEROLOGY	Dorota Mańkowska-Wierzbicka MD, PhD	Chair and Department of Endocrinology, Metabolic Disorders and Internal Medicine	20	0	15	5	1	pass/fail
	ADVANCED PHARMACOTHERAPY I: METABOLIC DISEASES + NUTRITION (DRUG SUPPLEMENTS)	Alina Kanikowska MD, PhD	Chair and Department of Internal Medicine, Metabolic Diseases and Dietetics	20	0	15	5	1	pass/fail
	ADVANCED PHARMACOTHERAPY I: ENDOCRINOLOGY	Nadia Sawicka-Gutaj MD, PhD	Chair and Department of Endocrinology, Metabolic Disorders and Internal Medicine	20	0	15	5	1	pass/fail

11	<b>IMMUNOLOGY &amp; ONCOLOGY</b>	Assoc. Prof. Dariusz Iżycki MD, PhD	Department of Tumor Immunology	30	0	20	10	2	pass/fail
12	<b>POLISH LANGUAGE</b>	Maria Nowosadko ThD	Department of Foreign Language Tuition	30	0	0	30		pass/fail
13	<b>VACATION PLACEMENT</b>	Dorota Danielak MSc, PhD	Chair and Department of Physical Pharmacy and Pharmacokinetics	160	0	160	0	5	pass/fail
14	<b>ELECTIVE COURSES</b>			60	0	0	60	4	pass/fail
	<b>Ogółem</b>			1030	184	546	300	60	5 examinations

**FIFTH YEAR**

No.	Course	Course coordinator	Chair or Department	Annual load				ECTS	Exam or pass/fail	
				Total	Lectures	Practicals	Seminars			
1	<b>PATIENT CARE V+VI</b>	Assoc. Prof. Agnieszka Bienert MSc, PhD	Chair and Department of Clinical Pharmacy and Biopharmacy	50	12	38	0	5	<b>Exam</b>	
2	<b>APPLIED BIOPHARMACEUTICS</b>	Assoc. Prof. Agnieszka Bienert MSc, PhD	Chair and Department of Clinical Pharmacy and Biopharmacy	40	12	0	28	5	<b>Exam</b>	
3	<b>PHARMACOECONOMICS AND PHARMACY MANAGEMENT</b>	Prof. Elżbieta Nowakowska MSc, PhD	Chair and Department of Pharmacoeconomics and Social Pharmacy	45	15	0	30	3	pass/fail	
4	<b>ADVANCED PHARMACOTHERAPY</b>	ADVANCED PHARMACOTHERAPY II: PULMONARY MEDICINE	Marcin Grabicki MD, PhD	Chair and Department of Pulmonology, Allergology and Pulmonary Oncology	20	0	15	5	2	pass/fail
		ADVANCED PHARMACOTHERAPY II: PEDIATRICS - DIABETOLOGY	Bogda Skowrońska MD, PhD	Department of Adolescent Diabetology and Obesity	15	0	10	5	1	pass/fail
		ADVANCED PHARMACOTHERAPY II: PEDIATRICS - GASTROENTEROLOGY	Beata Kłincewicz MD, PhD	Department of Pediatric Gastroenterology and Metabolic Diseases	15	0	10	5	1	pass/fail
		ADVANCED PHARMACOTHERAPY II: DERMATOLOGY	Assoc. Prof. Dorota Jenerowicz MD, PhD	Chair and Department of Dermatology	10	0	7	3	1	pass/fail
		ADVANCED PHARMACOTHERAPY II: FITOTHERAPY	Joanna Nawrot MSc, PhD	Chair and Department of Medicinal and Cosmetic Natural Products	10	0	7	3	1	pass/fail
		ADVANCED PHARMACOTHERAPY III: GYNECOLOGY AND OBSTETRICS	Prof. Grzegorz H. Bręborowicz MD, PhD	Department of Perinatology and Gynecology	20	0	15	5	2	pass/fail
		ADVANCED PHARMACOTHERAPY III: HEMATOLOGY	Krzysztof Sawiński MD, PhD	Chair and Department of Hematology and Bone Marrow Transplantation	10	0	7	3	2	pass/fail
		ADVANCED PHARMACOTHERAPY III: NEPHROLOGY	Prof. Krzysztof Pawlaczyk MD, PhD	Chair and Department of Nephrology, Transplantology and Internal Medicine	10	0	7	3	1	pass/fail
		ADVANCED PHARMACOTHERAPY III: CRITICAL CARE MEDICINE	Assoc. Prof. Hanna Billert MD, PhD	Department of Experimental Anesthesiology	15	0	10	5	2	pass/fail
		ADVANCED PHARMACOTHERAPY III: NEUROLOGY	Assoc. Prof. Jolanta Dorszewska MSc, PhD	Neurobiology Laboratory	15	0	10	5	1	pass/fail
		ADVANCED PHARMACOTHERAPY IV: FAMILY CARE	Assoc. Prof. Ewelina Gowin MD, PhD	Chair and Department of Family Medicine	15	0	10	5	1	pass/fail
		ADVANCED PHARMACOTHERAPY IV: PSYCHIATRY	Aleksandra Suwalska MD, PhD	Chair of Psychiatry, Department of Adult Psychiatry	15	0	10	5	1	pass/fail
		ADVANCED PHARMACOTHERAPY IV: PEDIATRICS - ALLERGOLOGY	Irena Wojsyk-Banaszak MD, PhD	Department of Pediatric Pulmonology, Allergology and Clinical Immunology	10	0	7	3	1	pass/fail
ADVANCED PHARMACOTHERAPY IV: BASIC RULES OF PHARMACOLOGIC THERAPY IN INTERNAL DISEASES	Bogna Grygiel-Górniak MD, PhD	Chair and Department of Rheumatology and Internal Medicine	12	0	6	6	1	pass/fail		
5	<b>CLINICAL PHARMACOKINETICS</b>	Prof. Franciszek Główka MSc, PhD	Chair and Department of Physical Pharmacy and Pharmacokinetics	30	0	20	10	3	<b>Exam</b>	

**EXAM**

6	PHARMACEUTICAL LAW	Krzysztof Kujawski MSc	Chair and Department of Physical Pharmacy and Pharmacokinetics	25	0	0	25	2	pass/fail
7	METHODOLOGY FOR SCIENTIFIC RESEARCH	Master thesis supervisor		175	0	175	0	10	pass/fail
8	RESEARCH PROJECT	Master thesis supervisor		200	0	200	0	10	Master thesis Exam
9	ELECTIVE COURSES			60	0	0	60	4	pass/fail
	<b>TOTAL</b>			817	39	564	214	60	5 examinations

**SIXTH YEAR**

No.	Course	Course coordinator	Chair or Department	Annual load				ECTS	Exam or pass/fail
				Total	Lectures	Practicals	Seminars		
1	OBLIGATORY PHARMACY (COMMUNITY AND HOSPITAL) PRACTICES	Bartosz Urbaniak MSc, PhD		960 h = 6 months				30	pass/fail
2	ADVANCED PHARMACY PRACTICES, including:	Paulina Skupin - Mrugalska MSc, PhD Katarzyna Kosicka MSc, PhD		640 h = 4 months				28	pass/fail
	Course 1: INTERNAL MEDICINE WITH ELEMENTS OF FAMILY CARE			120 h = 4 weeks				6	pass/fail
	Course 2: CARDIOLOGY			40 h = 1 week				2	pass/fail
	Course 3: INFECTIOUS DISEASES IN NEONATOLOGY			40 h = 1 week				2	pass/fail
	Course 4: NEONATAL INTENSIVE CARE			40 h = 1 week				2	pass/fail
	Course 5: GERIATRIC MEDICINE			120 h = 4 weeks				6	pass/fail
	Course 6: PEDIATRICS WITH ELEMENTS OF ONCOLOGY			120 h = 4 weeks				6	pass/fail
	Course 7: GYNECOLOGY AND OBSTETRICS			40 h = 1 week				2	pass/fail
	Course 8: INFECTIOUS DISEASES	40 h = 1 week				2	pass/fail		
3	PHARMACY REVIEW	Prof. Franciszek Główka MSc, PhD Assoc. Prof.. Marta Karaźniewicz-Łada MSc, PhD		80 h = 2 weeks				4	pass/fail
4	<b>FINAL PROFESSIONAL PHARMACY EXAMINATION</b>								
	<b>TOTAL</b>							62	1 examination