

Programme Curriculum (PHG 2)

Level one: 1st Semester

Course Code	Course Title	Prerequisite	Credit (Theoretical +Practical/ Tutorial)	Assessment					
				Mid-term Exam	Quizzes	Assignment	Practical / tutorial	Oral exam	Final exam
CSP 101	Computer and Applications	None	3(2+1)	20	10	10	20	-	40
ENG 101	English for Academic Purposes and Medical Terminology	ELAT exam	3	20	20	20	-	-	40
MTH 101	Mathematics	None	2 (2+0)	20	15	25	-	-	40
PC 111	Organic Chemistry (1)	None	3(2+1)	15	5	10	20	15	35
PG 101	Pharmacognosy (1)	None	3(2+1)	15	5	10	20	15	35
PT 101	Introduction to Pharmaceutics	None	2 (2+0)	20	15	25	-	-	40
PO 101	Anatomy and Histology	None	3(2+1)	15	15	-	20	-	50
Total			19						

Level one: 2nd Semester

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term Exam	Quizzes	Assignment	Practical/Tutorial	Oral exam	Final exam
ENG 102	English Language for Study Skills	ENG 101	3	20	-	40	-	-	40
PT 102	Physical Pharmacy	None	3(2+1)	15	5	10	20	15	35
PC 112	Organic Chemistry (2)	PC 111	3(2+1)	15	5	10	20	15	35
PG 102	Pharmacognosy (2)	PG 101	3(2+1)	15	5	10	20	15	35
PC 123	Analytical Chemistry (1)	None	3(2+1)	15	5	10	20	15	35
BS 101	Psychology and Sociology for Pharmacy	None	2 (2+0)	20	15	25	-	-	40
Total			17						

Level two: 3rd Semester

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term Exam	Quizzes	Assignment	Practical /tutorial	Oral exam	Final exam
ENG 201	English Language for Research Purpose	ENG 102	3	20	-	40	-	-	40
PC 223	Analytical Chemistry (2)	PC 123	3(2+1)	15	5	10	20	15	35
PM 211	Basic Microbiology and Microbial Genetics	None	2(1+1)	15	5	10	20	15	35
PC 211	Organic Chemistry (3)	PC 112	4(3+1)	15	5	10	20	15	35
PT 211	Pharmaceutical Dosage Form (1)	PT 102	3(2+1)	15	5	10	20	15	35
PO 201	Physiology	PO 101	3(2+1)	15	5	10	20	15	35
Total			18						

Level two: 4th Semester

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term exam	Quizzes	Assignment	Practical /Tutorial	Oral exam	Final exam
PG 212	Chemistry of Natural Products (1)	PG 102 and PC 211	3(2+1)	15	5	10	20	15	35
PC 224	Analytical Chemistry (3)	PC 223	3(2+1)	15	5	10	20	15	35
PT 212	Pharmaceutical Dosage Form (2)	PT 211	3(2+1)	15	5	10	20	15	35
PM 212	Immunology and Virology	PM 211 and PO 201	2 (2+0)	20	5	20	-	15	40
PM 213	Pharmaceutical Microbiology	PM 211	3(2+1)	15	5	10	20	15	35
MS 201	Pharmaceutical Business Administration	ENG 101	2 (2+0)	20	15	25	-	-	40
Total			16						

Level three: 5th Semester

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term Exam	Quizzes	Assignment	Practical /tutorial	Oral exam	Final exam
PG 314	Chemistry of Natural Products (2)	PG 212	3(2+1)	15	-	15	20	15	35
PB 304	Biochemistry (1)	PC 211 and PO 201	3(2+1)	15	-	15	20	15	35
PC 322	Instrumental and Applied Analysis	PC 224	3(2+1)	15	-	15	20	15	35
PM 311	Medical Microbiology	PM 212	3(2+1)	15	-	15	20	15	35
PO 311	Pharmacology (1)	PO 201	3(2+1)	15		15	20	15	35
PT 311	Pharmaceutical Dosage Form (3)	PT 212	3(2+1)	15	-	15	20	15	35
Total			19						

Level three: 6th Semester

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term Exam	Quizzes	Assignment	Practical/tutorial	Oral exam	Final exam
PG 321	Applied Phytochemistry	PG 314	2 (2+0)	20	-	25	-	15	40
PB 305	Biochemistry (2)	PB 304	3(2+1)	15	-	15	20	15	35
PT 321	Sterile Products and Reaction Kinetics	PT 102 and PT 211	3(2+1)	15	-	15	20	15	35
PM 312	Pathophysiology and Parasitology	PM 212	3(2+1)	15	-	15	20	15	35
PC 331	Pharmaceutical Chemistry (1)	PC 211	3(2+1)	15	-	15	20	15	35
PO 312	Pharmacology (2)	PO 311	3(2+1)	15	-	15	20	15	35
RS 302	Ethics and Safety	Sophomore Students	2 (2+0)	20	-	40	-	-	40
Total			19						

Level four: 7th Semester

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term Exam	Quizzes	Assignment	Practical/tutorial	Oral exam	Final exam
PB 402	Clinical Biochemistry and Molecular Biology	PB 305	3(2+1)	15	-	15	20	15	35
PO 413	Pharmacology (3)	PO 312	3(2+1)	15	-	15	20	15	35
PT 431	Industrial Pharmacy (1)	PT 311	3(2+1)	15	-	10	25	15	35
PC 431	Pharmaceutical Chemistry (2)	PC 331	3(2+1)	15	-	15	20	15	35
PT 423	Biopharmaceutics and Pharmacokinetics	PT 102 and PT 321	3(2+1)	15	-	15	20	15	35
	Elective (1)	Course Prerequisite	3(2+1)						
PM 412	Public Health	PM 311	1(1+0)	20	-	25	-	15	40
Total			19						

Level four: 8th Semester

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term Exam	Quizzes	Assignment	Practical/tutorial	Oral exam	Final exam
PT 432	Industrial pharmacy (2)	PT 431	2 (2+0)	20	-	25	-	15	40
PL 402	Clinical Pharmacokinetics	PT 423	3(2+1)	20	-	10	15	15	40
PL 403	Pharmacy Practice	Junior Students*	3(2+1)	15	-	15	20	15	35
PO 422	Toxicology and First Aid	PO 312	3(2+1)	15	-	15	20	15	35
	Elective (2)	Course Prerequisite	3(2+1)						
RS 402	Research Methodology	Junior Students*	2 (2+0)	20	-	40	-	-	40
MS 401	Marketing and Drug Promotion	MS 201	2 (2+0)	20	-	40	-	-	40
Total			18						

*Students achieving 109 credits

Level five: 9th Semester

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term exam	Quizzes	Assignment	Practical/Tutorial	Oral exam	Final exam
PL 503	Therapeutics	PO 312	3(2+1)	15	-	15	20	15	35
PL 504	Clinical Pharmacy and Drug Information	PO 312	3(2+1)	15	-	15	20	15	35
PO 512	Clinical Pharmacology and Drug Interaction	PO 312	3(2+1)	15	-	15	20	15	35
PC 532	Drug Design	PC 431	3(2+1)	15	-	15	20	15	35
PM 511	Pharmaceutical Biotechnology	PM 211 and PB 402	2 (2+0)	20	-	25	-	15	40
RS 511	Independent Studies in Pharmaceutical Sciences	RS 402 and Senior Students*	4	As stated in the graduation project manual					
Total			18						

*Students achieving 136 credits

Level five: 10th Semester

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term exam	Quizzes	Assignment	Practical/ tutorial	Oral exam	Final exam
PC 522	Quality Control and Quality Assurance	PC 322 and PM 213	2 (2+0)	20	-	25	-	15	40
PT 512	Drug Delivery Systems	PT 311	2 (2+0)	20	-	25	-	15	40
PL 505	Pharmacotherapy of Diseases	PL 504	3(2+1)	15	-	15	20	15	35
	Elective (3)	Course Prerequisite	3(2+1)						
PT 541	Pharmaceutical Ethics and Legislation	Senior students	1(1+0)	20	-	40	-	-	40
RS 512	Research Project	RS 511 and Senior Students*	6	As stated in the graduation project manual					
Total			17						

* Students achieving 136 credits

Elective courses

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term exam	Quizzes	Assignment	Practical / tutorial	Oral exam	Final exam
PB 412	Clinical Nutrition	PB 305	3(2+1)	15	-	25	25	-	35
PB 413	Bioanalysis	PB 305 and PC 322	3(2+1)	15	-	25	25	-	35
PB 415	Fundamentals of Molecular Genetics	NA	3(2+1)	20	-	20	20	-	40
PC 424n	Forensic Chemistry	PC 322	3(2+1)	20	-	20	20	-	40
PC 426	Food and Cosmetics Analysis	PC 322	3(2+1)	20	-	20	20	-	40
PC 414	Advanced Organic Chemistry	PC 211	3(2+1)	15	-	15	20	15	35
PC 433	Nuclear Pharmacy	PC 431	3(2+1)	15	-	15	20	15	35
PG 412	Herbal Medicine	PG 321	3(2+1)	15	-	15	20	15	35
PG 413	Computational Phytochemistry	PG 321	3(2+1)	20	-	20	20	-	40
PM 411	Diagnostic Microbiology	PM 311	3(2+1)	15	-	15	20	15	35

Course Code	Course Title	Prerequisite	Credit	Assessment					
				Mid-term exam	Quizzes	Assignment	Practical / tutorial	Oral exam	Final exam
PM 423	Basics of Proteomics	PM 211 and PB 402	3(2+1)	20	-	20	20	-	40
PO 444	Pharmacogenomics	PO 312	3(2+1)	15	-	15	20	15	35
PO 443	Pharmacovigilance	PO 312	3(2+1)	15	-	15	20	15	35
PO 445	Drugs and Sports	PO 312	3(2+1)	20	-	20	20	-	40
PO 446	Drug Abuse	PO 312	3(2+1)	20	-	20	20	-	40
PT 414	Cosmetics and toiletry formulation beauty aid and make up	PT 211	3(2+1)	15	-	15	20	15	35
PL 411	Pharmacoeconomics and Epidemiology	PO 312	3(2+1)	15	-	15	20	15	35
PT 513	Advanced Drug Delivery	PO 312	3(2+1)	-	-	15	40	15	30
PT 434	Computer-Aided Process Design	PT 311	3(2+1)	20	-	20	20	-	40
PT 433	Rrgestration of Generic Products	PT 311	3(2+1)	20	-	20	20	-	40
MS 402	Health Technology	NA	3(2+1)	20	-	20	20	-	40

Elective courses are offered to Junior and Senior students who have finished the corresponding prerequisite of each elective. The Faculty Assessment Board determines the elective courses offered each semester and the academic advisers offer help to students concerning choosing the elective. New courses might be added and other courses might be modified to cope with the vast rapid development in the different Pharmaceutical fields.