

TABLE 2A: COURSE DISTRIBUTION for BSc in PHARMACY PER SEMESTER

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration (min.)	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 1								
1.	Required	General and Inorganic Chemistry	PHA101	3+2*	50	13	39+26*	6
2.	Required	General Physics	PHA102	3+2*	50	13	39+26*	6
3.	Required	General Biology	PHA104	2+2*	50	13	26+26*	6
4.	Required	Introduction to Pharmaceutical Sciences	PHA105	3	50	13	39	5
5.	Free Elec.	Free Elective			50	13		5
6.	Required	Basic English for Pharmaceutical Sciences	AENG141	3	50	13	39	2
Semester 2								
7.	Required	Mathematics and Elements of Statistics	PHA103	3+1**	50	13	39+13**	6
8.	Required	Analytical Chemistry	PHA106	3+1**+2*	50	13	39+13**+26*	6
9.	Required	Elements of Botany	PHA107	2+2*	50	13	39+26*	5
10.	Required	Human Anatomy	PHA108	3+1*	50	13	39+13*	6
11.	Free Elec.	Free Elective			50	13		5
12.	Required	Intermediate English for Pharmaceutical Sciences	AENG142	3	50	13	39	2



A/A	Course Type	Course Name	Course Code	Periods per week	Period duration (min.)	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 3								
13.	Required	Physical Chemistry	PHA201	3+2*	50	13	39+26*	6
14.	Required	Organic Chemistry	PHA211	3+1**+2*	50	13	39+13**+26*	6
15.	Required	Microbiology	PHA203	3+2*	50	13	39+26*	6
16.	Required	Inorganic & Bioinorganic Pharmaceutical Chemistry	PHA302	3+2*	50	13	39+26*	6
17.	Required	Human Physiology and Pathophysiology	PHA205	3+1*	50	13	39+13*	6
Semester 4								
18.	Required	Molecular Biology and Biotechnology	PHA212	3+2*	50	13	39+26*	6
19.	Required	Biochemistry I	PHA207	3+2*	50	13	39+26*	6
20.	Required	Physical Pharmacy	PHA208	3+2*	50	13	39+26*	6
21.	Elective	Pharmacy Elective						6
22.	Required.	Hygiene and Emergency Therapeutics	PHA305	2+1**+2*	50	13	26+13**+26*	6
Semester 5								
23.	Required	Biopharmacy & Pharmacokinetics	PHA301	3+2*	50	13	39+26*	6

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration (min.)	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
24.	Required	Pharmacognosy I	PHA311	3+2*	50	13	39+26*	6
25.	Required	Molecular Pharmacology	PHA306	3+2*	50	13	39+26*	6
26.	Required	Pharmaceutical Analysis I	PHA303	3+2*	50	13	39+26*	6
27.	Required	Biochemistry II	PHA304	2+2*	50	13	26+26*	6
Semester 6								
28.	Required	Pharmaceutical Chemistry I	PHA307	3+1**+2*	50	13	39+13**+26*	6
29.	Required	Pharmaceutical Technology I	PHA308	3+2*	50	13	39+26*	6
30.	Required	Pharmacology I	PHA309	3+2*	50	13	39+26*	6
31.	Required	Pharmaceutical Immunology & Immunochemistry	PHA310	3+2*	50	13	39+26*	6
32.	Required	Pharmacognosy II	PHA 312	3+2*	50	13	39+26*	6
Semester 7								
33.	Required	Pharmaceutical Chemistry II	PHA401	3+1**+2*	50	13	39+13**+26*	6
34.	Required	Pharmaceutical Technology II	PHA402	3+2*	50	13	39+26*	6
35.	Required	Pharmaceutical Analysis II and Drug Control	PHA403	2+2*	50	13	26+26*	6

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration (min.)	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
36.	Required	Research Methodology	PHA412	3	50	13	39	6
37.	Required	Pharmacology II	PHA405	3+2*	50	13	39+26*	6
Semester 8								
38.	Required	Clinical Pharmacy and Pharmaceutical Care	PHA413	4+1*+1**	50	13	52+13**+13*	6
39.	Required	Toxicology	PHA408	3+2*	50	13	39+26*	6
40.	Required	Undergraduate Thesis	PHA506	-	-	-	-	6
41.	Required	Chemistry & Technology of Cosmetics	PHA414	3+2*	50	13	39+26*	6
42.	Required	Pharmaceutical Legislation and Ethics	PHA502	2	50	13	26	6
Semester 9								
43.	Required	Practical Training I	PHA504	-	-	-	-	30
Semester 10								
44.	Required	Practical Training II	PHA507	-	-	-	-	30

*Lab Hours, **Tutorial Hours



Pharmacy Electives

Num.	Course Name	Course Code	ECTS
1.	Food Chemistry and Nutritional Science	PHA209	6
2.	Principles of Management and Economics in Pharmaceutical Business	PHA418	6
3.	Galenic Pharmacy	PHA415	6
4.	Clinical Chemistry	PHA416	6
5.	Radiopharmaceutical Chemistry	PHA417	6

TABLE 2B: COURSE DISTRIBUTION FOR INTEGRATED MASTER IN PHARMACY PROGRAMME PER SEMESTER

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration (min.)	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 1								
1.	Required	General and Inorganic Chemistry	PHA101	3+2*	50	13	39+26*	6
2.	Required	General Physics	PHA102	3+2*	50	13	39+26*	6
3.	Required	General Biology	PHA104	2+2*	50	13	26+26*	6
4.	Required	Introduction to Pharmaceutical Sciences	PHA105	3	50	13	39	5
5.	Free Elec.	Free Elective			50	13		5
6.	Required	Basic English for Pharmaceutical Sciences	AENG141	3	50	13	39	2
Semester 2								
7.	Required	Mathematics and Elements of Statistics	PHA103	3+1**	50	13	39+13**	6
8.	Required	Analytical Chemistry	PHA106	3+1**+2*	50	13	39+13**+26*	6
9.	Required	Elements of Botany	PHA107	2+2*	50	13	39+26*	5
10.	Required	Human Anatomy	PHA108	3+1*	50	13	39+13*	6
11.	Free Elec.	Free Elective			50	13		5
12.	Required	Intermediate English for Pharmaceutical Sciences	AENG142	3	50	13	39	2

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration (min.)	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 3								
13.	Required	Physical Chemistry	PHA201	3+2*	50	13	39+26*	6
14.	Required	Organic Chemistry	PHA211	3+1**+2*	50	13	39+13**+26*	6
15.	Required	Microbiology	PHA203	3+2*	50	13	39+26*	6
16.	Required	Inorganic & Bioinorganic Pharmaceutical Chemistry	PHA302	3+2*	50	13	39+26*	6
17.	Required	Human Physiology and Pathophysiology	PHA205	3+1*	50	13	39+13*	6
Semester 4								
18.	Required	Molecular Biology and Biotechnology	PHA212	3+2*	50	13	39+26*	6
19.	Required	Biochemistry I	PHA207	3+2*	50	13	39+26*	6
20.	Required	Physical Pharmacy	PHA208	3+2*	50	13	39+26*	6
21.	Elective	Pharmacy Elective						6
22.	Required.	Hygiene and Emergency Therapeutics	PHA305	2+1**+2*	50	13	26+13**+26*	6
Semester 5								
23.	Required	Biopharmacy & Pharmacokinetics	PHA301	3+2*	50	13	39+26*	6

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24.	Required	Pharmacognosy I	PHA311	3+2*	50	13	39+26*	6
25.	Required	Molecular Pharmacology	PHA306	3+2*	50	13	39+26*	6
26.	Required	Pharmaceutical Analysis I	PHA303	3+2*	50	13	39+26*	6
27.	Required	Biochemistry II	PHA304	2+2*	50	13	26+26*	6
Semester 6								
28.	Required	Pharmaceutical Chemistry I	PHA307	3+1**+2*	50	13	39+13**+26*	6
29.	Required	Pharmaceutical Technology I	PHA308	3+2*	50	13	39+26*	6
30.	Required	Pharmacology I	PHA309	3+2*	50	13	39+26*	6
31.	Required	Pharmaceutical Immunology & Immunochemistry	PHA310	3+2*	50	13	39+26*	6
32.	Required	Pharmacognosy II	PHA312	3+2*	50	13	39+26*	6
Semester 7								
33.	Required	Pharmaceutical Chemistry II	PHA401	3+1**+2*	50	13	39+13**+26*	6
34.	Required	Pharmaceutical Technology II	PHA402	3+2*	50	13	39+26*	6
35.	Required	Pharmaceutical Analysis II and Drug Control	PHA403	2+2*	50	13	26+26*	6

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration (min.)	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
36.	Required	Research Methodology	PHA412	3	50	13	39	6
37.	Required	Pharmacology II	PHA405	3+2*	50	13	39+26*	6
Semester 8								
38.	Required	Clinical Pharmacy and Pharmaceutical Care	PHA413	4+1*+1**	50	13	52+13**+13*	6
39.	Required	Toxicology	PHA408	3+2*	50	13	39+26*	6
40.	Elective	Advanced Pharmacy Elective						6
41.	Required	Chemistry & Technology of Cosmetics	PHA414	3+2*	50	13	39+26*	6
42.	Required	Pharmaceutical Legislation and Ethics	PHA502	2	50	13	26	6
Semester 9								
43.	Required	Postgraduate Thesis	PHA508	-	-	-	-	30
Semester 10								
44.	Required	Practical Training (Placement)	PHA509	-	-	-	-	30

*Lab Hours, **Tutorial Hours



Pharmacy Electives

Num.	Course Name	Course Code	ECTS
1.	Food Chemistry and Nutritional Science	PHA209	6
2.	Principles of Management and Economics in Pharmaceutical Business	PHA418	6
3.	Galenic Pharmacy	PHA415	6
4.	Clinical Chemistry	PHA416	6

Advanced Pharmacy Electives

Num.	Course Name	Course Code	ECTS
1.	Advanced Pharmaceutical Biotechnology	PHA419	6
2.	Advanced topics in Design, Discovery & Development of Drugs	PHA420	6
3.	Advanced Topics in Radiopharmaceutical Chemistry	PHA421	6