



Faculty of Pharmacy
Tabriz University of Medical Sciences

Ph.D Courses of Pharmacology

Table 1. Compensatory Courses

Code of the Course	Course Title	Credits			Teaching hours			Prerequisite or Co-requisite Course	
		Total	Theoretical	Practical	Total	Theoretical	Practical		
01	Medical Information System**	1	0.5	0.5	9	17	26	-	
02	Cardiovascular Pathophysiology	1	1	-	17	17	-	-	
03	Endocrine Pathophysiology	1	1	-	17	17	-	-	
04	Renal Pathophysiology	1	1	-	17	17	-	-	
05	Respiratory Pathophysiology	1	1	-	17	17	-	-	
06	Blood Pathophysiology	1	1	-	17	17	-	-	
07	Gastrointestinal Pathophysiology	1	1	-	17	17	-	-	
08	Principles of Natural Products Research	1	1	-	17	17	-	-	
09	Medicinal Chemistry	1	1	-	17	17	-	-	
10	Biopharmacy	2	2	-	34	34	-	-	
Total		11							

*Passing these courses (all or some of them) is subject to the decision made by the university post graduate council

** Passing this course is obligatory for those who have not completed it before.

Table 2. Core Courses

Code of the Course	Course Title	Credits			Teaching hours			Prerequisite or Co-requisite Course
		Total	Theoretical	Practical	Total	Theoretical	Practical	
11	Advanced Pharmacokinetics	2	2	-	34	34	-	Biopharmacy Code 10
12	Pharmacodynamics	2	2	-	34	34	-	Biopharmacy Code 10 and Medicinal Chemistry code 09
13	Clinical Pharmacology	1	1	-	17	17	-	-
14	Neuropharmacology	3	2.5	0.5	60	43	17	-
15	Cardiovascular Pharmacology	2	1.5	0.5	43	26	17	-
16	Gastrointestinal, Respiratory and Endocrine Pharmacology	2	1.5	0.5	43	26	17	-
17	Chemotherapy	2	2	-	34	34	-	-
18	Principles of Experimental Study Design	1	1	-	17	17	-	-
19	Research Methods	2	0.5	1.5	60	9	51	-
20	Seminars	1	1	-	17	17	-	-
Total		18						

Table 3. Non-Core Courses*

Code of the Course	Course Title	Credits			Teaching hours			Prerequisite or Co-requisite Course
		Total	Theoretical	Practical	Total	Theoretical	Practical	
21	Advanced Biostatistics	2	1.5	0.5	42	26	17	-
22	Molecular Neuroscience	2	2	-	34	34	-	-
23	Immunopharmacology	2	2	-	34	34	-	-
24	Molecular Biology	2	2	-	34	34	-	-
25	Cell Therapy	1	1	-	17	17	-	-
26	Bioethics	1	1	-	17	17	-	-
27	Graphical and Statistical Software	1	0.5	0.5	26	9	17	-
28	Scientific Writing	1	0.5	0.5	26	9	17	-
29	Gene Therapy	2	2	-	34	34	-	-
30	Addiction	2	2	-	34	34	-	-
Total		16						

*Passing six credits of these courses is necessary depending on thesis subject, supervisor recommendation and approval of the university post-graduate council.