

PHARMACEUTICAL CHEMISTRY DOCTORATE PROGRAM

ISTINYE UNIVERSITY					
DEPARTMENT OF PHARMACEUTICAL/MEDICINAL CHEMISTRY					
FACULTY OF PHARMACY					

1st semester					
C. Code	Course	T	P	ECTS	Language of Instruction
	Advanced Organic Chemistry-I	2		7	TR
	Scientific Research Methods and Publication Ethics	1		7	TR
	Elective Course			8	TR
	Elective Course			8	TR
Total				30	

2nd Semester					
C. Code	Course	T	P	ECTS	Language of Instruction
	Advanced Organic Chemistry-II	2		7	TR
	Seminar	1		7	TR
	Elective Course			8	TR
	Elective Course			8	TR
Total				30	

3rd semester					
C. Code	Course	T	P	ECTS	Language of Instruction
	Qualitative and Quantitative Analysis of Drugs	2	2	6	TR
	Elective Course			8	TR
	Elective Course			8	TR
	Elective Course			8	TR
Total				30	

4th Semester					
C. Code	Course	T	P	ECTS	Language of Instruction
	PREPERATION FOR PRELIM			30	TR
Total				30	

5th semester					
C. Code	Course	T	P	ECTS	Language of Instruction
	PRELIM EXAMINATION				TR
	Thesis Proposal			50	TR
Total				50	

6th Semester					
C. Code	Course	T	P	ECTS	Language of Instruction
	THESIS			130	TR
Total				130	

7th semester					
C. Code	Course	T	P	ECTS	Language of Instruction
	THESIS			130	TR
Total				130	

8th Semester					
C. Code	Course	T	P	ECTS	Language of Instruction
	THESIS			130	TR
Total				130	

DESCRIPTION
T: Theoric
P: Practice

Elective Major Area Courses					
C. Code	Course	T	P	ECTS	Language of Instruction
	Area Elective Course -I	1		8	TR

ECTS: European Credit Transfer System

	Organic Synthesis Methods (Laboratory)		2	8	TR
	Pharmaceutical/Medicinal Chemistry-I	3		8	TR
	Pharmaceutical/Medicinal Chemistry-II	3		8	TR
	Computer Assisted Drug Design and Development	2	2	8	TR
	Pharmaceutical / compound purification methods	1	2	8	TR
	Introduction to computer in pharmaceutical chemistry	2	2	8	TR
	Selected topics in pharmaceutical & medicinal chemistry I	2		8	TR
	Literature research and presentation		2	8	TR
	Area Elective Course -II	1		8	TR
	Three-dimensional NMR structure determinations of drugs and biomolecules	1	2	8	TR
	Selected topics in pharmaceutical & medicinal chemistry II	2		8	TR
	Metabolism Reactions and Metabolites in Drug Design	2		8	TR
	Advanced Pharmaceutical Chemistry	2	2	8	TR
	Area Elective Course -III	2		8	TR
	Heterocyclic compound chemistry	2	2	8	TR
	Biophysical binding properties of receptor targeted drugs	1	2	8	TR
	Selected topics in pharmaceutical & medicinal chemistry III	2		8	TR
	Determination of biological activity of drugs/compounds	2	2	8	TR
	Organic Drug Synthesis	2		8	TR
	Area Elective Course -IV	1		8	TR
	Mechanisms of action of anticancer drugs and receptor-drug interactions	2	2	8	TR
	Selected topics in pharmaceutical & medicinal chemistry IV	2		8	TR
	Controlled drug release, drug carrier systems and their chemistry	2		8	TR
	Bioorganic chemistry	2		8	TR
	Bioinformatics and personalized medicine	1	2	8	TR

SCIENTIFIC PREPARATORY COURSES

C.Code	Course	T	P	ECTS	Language of Instruction
	General Chemistry	2	2		TR
	Organic Chemistry	2	2		TR
	Biology, Molecular Biology and Genetics	2			TR
	Pharmaceutical Microbiology	2			TR

	Principals of Pharmaceutical Chemistry	2	2		TR
	Basics of Pharmacology	2			TR
	Pharmaceutical / Medisinal Biochemistry	2			TR