

QF02/0413-3.0E	Course Plan for Master program - Course Plan Development and Updating Procedures/ Pharmacy Department
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Course Plan for Pharmaceutical Sciences (Master Program) No.: (1/ 2011-2012)

Approved by Deans Council by decision (211/30/735) dated (2013/10/13)

(33) Credit Hours

No.	Goals and learning outcomes
Goal 1	Deepening the students' understanding of the concepts of pharmaceutical manufacturing and drug delivery.
ILO 1.1	The student should be able to: Illustrate the advances in pharmaceutical manufacturing and drug development approaches.
ILO 1.2	Possess basic and advanced skills in terms of pharmaceutical analysis techniques utilized in scientific research, control authorities, pharmaceutical companies and pharmaceutical research centers.
GOAL 2	Empowering and expanding the students' knowledge and practice in the different pharmaceutical disciplines.
ILO 2.1	The student should be able to: Provide high quality pharmaceutical care to patients.
ILO 2.2	Design, synthesize and biologically evaluate the activity of the new compounds.
GOAL 3	Providing the students with necessary research skills.
ILO 3.1	The student should be able to: Play his/ her role efficiently either as an independent researcher or part of a research team.
ILO 3.2	Suggest ideas and write research proposals in the assigned area of pharmaceutical sciences.
ILO 3.3	Read, write, understand, interpret and criticize research articles.

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1. Master thesis program:

Std Info.		Course No.	Course Name	Credit Hours
Pass.	Reg.			
a. Compulsory requirements (18) Credit hours				
<input type="checkbox"/>	<input type="checkbox"/>	201700	Advanced pharmaceutical organic chemistry	3
<input type="checkbox"/>	<input type="checkbox"/>	201702	Research Methodologies	2
<input type="checkbox"/>	<input type="checkbox"/>	201721	Advanced Pharmacology	3
<input type="checkbox"/>	<input type="checkbox"/>	201741	Advanced pharmaceutical Analysis	3
<input type="checkbox"/>	<input type="checkbox"/>	201742	Medicinal Chemistry and Drug Design	3
<input type="checkbox"/>	<input type="checkbox"/>	201761	Advanced Biopharmaceutics & Pharmacokinetics	2
<input type="checkbox"/>	<input type="checkbox"/>	201762	Advanced Pharmaceutical Technology	2
b. Elective Courses (6) Credit hours				
<input type="checkbox"/>	<input type="checkbox"/>	201711	Advanced Clinical Biochemistry	3
<input type="checkbox"/>	<input type="checkbox"/>	201703	Scientific Seminars	3
<input type="checkbox"/>	<input type="checkbox"/>	201751	Herbal Therapy	3
<input type="checkbox"/>	<input type="checkbox"/>	201764	Pharmaceutical Biotechnology	3
<input type="checkbox"/>	<input type="checkbox"/>	201791	Selected Topics in Pharmaceutics	3
<input type="checkbox"/>	<input type="checkbox"/>	201704	Biostatistics and Applications	3
c. Thesis (9) credit hours				
<input type="checkbox"/>	<input type="checkbox"/>	201799	Pharmaceutical Sciences	9

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2. Comprehensive exam program (33) Credit hours:

Std Info.		Course No.	Course Name	Credit Hours
Pass.	Reg.			
a. Compulsory requirements (24) Credit hours				
<input type="checkbox"/>	<input type="checkbox"/>	201700	Advanced pharmaceutical organic chemistry	3
<input type="checkbox"/>	<input type="checkbox"/>	201702	Research Methodologies	2
<input type="checkbox"/>	<input type="checkbox"/>	201721	Advanced Pharmacology	3
<input type="checkbox"/>	<input type="checkbox"/>	201741	Advanced pharmaceutical Analysis	3
<input type="checkbox"/>	<input type="checkbox"/>	201742	Medicinal Chemistry and Drug Design	3
<input type="checkbox"/>	<input type="checkbox"/>	201761	Advanced Biopharmaceutics & Pharmacokinetics	2
<input type="checkbox"/>	<input type="checkbox"/>	201762	Advanced Pharmaceutical Technology	2
<input type="checkbox"/>	<input type="checkbox"/>	201763	Advanced Drug Delivery Systems	3
<input type="checkbox"/>	<input type="checkbox"/>	201764	Pharmaceutical Biotechnology	3
b. Elective Courses (9) Credit hours				
<input type="checkbox"/>	<input type="checkbox"/>	201711	Advanced Clinical Biochemistry	3
<input type="checkbox"/>	<input type="checkbox"/>	201703	Scientific Seminars	3
<input type="checkbox"/>	<input type="checkbox"/>	201751	Herbal Therapy	3
<input type="checkbox"/>	<input type="checkbox"/>	201791	Selected Topics in Pharmaceutics	3
<input type="checkbox"/>	<input type="checkbox"/>	201704	Biostatistics and Applications	3
c. Comprehensive exam (0) credit hours				
<input type="checkbox"/>	<input type="checkbox"/>			0