

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-4.0E
---	----------------

Study Plan No.	2021/2022	University Specialization	Bachelor of Pharmacy
Course No.	0201224	Course Name	Pharmaceutical dosage forms 1
Credit Hours	2	Prerequisite *Co-requisite	Pharmaceutics
Course Type	☐ Mandatory University Requirement ☐ University Elective Requirement	☐ Faculty Mandatory Requirement ☐ Support course family requirements	☒ Mandatory Requirement ☐ Elective Requirement
Teaching Style	☐ Full Online Learning	☒ Blended Learning	☐ Traditional Learning
Teaching Model	☐ 1 Synchronous: 1 Asynchronous	☒ 1 Face to Face: 1 Asynchronous	☐ 2 Traditional

Faculty Member and Study Divisions Information (to be filled in each semester by the subject instructor)

Faculty of Education - Faculty of Education - Faculty of Education (to be filled in each semester by the subject instructor)					
Name	Academic rank	Office No.	Phone No.	E-mail	
Office Hours (Days/Time)					
Division number	Time	Place	Number of Students	Teaching Style	Approved Model
				Blended Learning	1 Face to Face: 1 Asynchronous

Brief Description

This course provides students with knowledge about different dosage forms, their formulations, packaging, labeling, and storage.

Learning Resources

Course Book Information (Title, author, date of issue, publisher ... etc)	Aulton's Pharmaceutics; The Design and Manufacture of Medicines, Kevin M.G. Taylor, Michael E. Aulton. 6 th edition. 2021. Churchill Livingstone, Elsevier.			
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	Pharmaceutical Practice; by A. J. Winfield, J.A. Rees, and I. Smith. 4 th edition. 2009. Churchill Livingstone, Elsevier.			
Supporting Websites	-			
The Physical Environment for Teaching	☒ Classroom	☐ Labs	☒ Virtual Educational Platform	☐ Others
Necessary Equipment and Software	Moodle			
Supporting People with Special Needs	-			
For Technical Support	E-Learning & Open Educational Resources Center Email: elearning@zuj.edu.jo ; Phone: +962 6 429 1511 ext. 425/362			

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-4.0E
---	----------------

Course learning outcomes (*K= Knowledge, S= Skills, C= Competencies*)

No.	Course Learning Outcomes	The Associated Program Learning Output Code
Knowledge		
The student should be able to:		
K1	Identify the different dosage forms available in the pharmacy.	MK2
K2	Recognize the best storage and packaging conditions for each dosage form.	MK2
K3	Differentiate between the different routes of administration for dosage forms.	MK2
Skills		
The student should be able to:		
S1	Select the best dosage form for each use and patient population.	MS4
S2	Predict the best container and packaging material for each dosage form.	MS4
Competencies		
The student should be able to:		
-	-	-

Mechanisms for Direct Evaluation of Learning Outcomes

Type of Assessment / Learning Style	Fully Electronic Learning	Blended Learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
Midterm Exam	30%	30%	30%	0%
Participation / Practical Applications	0%	0%	30%	60%
Asynchronous Interactive Activities	30%	30%	0%	0%
Final Exam	40%	40%	40%	40%

Note 1: Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, and work within student groups ... etc, which the student carries out on his own, through the virtual platform without a direct encounter with the subject teacher.

Note 2: According to the Regulations of granting Master's degree at Al-Zaytoonah University of Jordan, 40% of final evaluation goes for the final exam, and 60% for the semester work (examinations, reports, research or any scientific activity assigned to the student).

Schedule of Simultaneous / Face-to-Face Encounters and their Topics

Week	Subject	Learning Style*	Reference ** (Pages in Course Book)
1	Introduction to Pharmaceutics	Lecture	1-3 Ref.1 Ch.1
2	Routes of administration and dosage forms	Lecture	1-12 Ref. 1, Ch. 1

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-4.0E
---	----------------

			211-218 Ref. 2, Ch. 21
3	Solutions	Lecture	386-396 Ref.1, Ch. 24 337-346 Ref. 2, Ch. 30
4	Solutions	Lecture	386-396 Ref.1, Ch. 24 337-346 Ref. 2, Ch. 30
5	Suspensions	Lecture	407-423 Ref. 1, Ch. 26 347-353 Ref. 2, Ch. 31
6	Suspensions	Lecture	407-423 Ref. 1, Ch. 26 347-353 Ref. 2, Ch. 31
7	Suspensions	Lecture	407-423 Ref. 1, Ch. 26 356-363 Ref. 2, Ch. 32
8	Midterm Exam	-	-
9	Emulsions	Lecture	424-453 Ref. 1, Ch. 27 356-363 Ref. 2, Ch. 32
10	Emulsions	Lecture	424-453 Ref. 1, Ch. 27 356-363 Ref. 2, Ch. 32
11	Emulsions	Lecture	424-453 Ref. 1, Ch. 27 387-391 Ref. 2, Ch. 32
12	Powders and granules	Lecture	463-482 Ref. 1, Ch. 29 393-398 Ref. 2, Ch. 36
13	Packaging	Lecture	533-592 Ref. 1, Ch. 50-53 305-313 Ref. 2, Ch. 27
14	Labeling of dispensed medicines:	Lecture	533-592 Ref. 1, Ch. 50-53 305-313 Ref. 2, Ch. 27
15	Storage of medicines and waste disposal	Lecture	493-499 Ref. 2, Ch. 43
16	Final Exam	-	-

* Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

** Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.

Schedule of Asynchronous Interactive Activities (in the case of e-learning and blended learning)

Week	Task / Activity	Reference	Expected Results
1	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
2	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
3	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
4	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
5	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
6	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
7	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
8	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-4.0E
---	----------------

9	Midterm Exam	-	-
10	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
11	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
12	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
13	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
14	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
15	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
16	Final Exam	-	-