

# جامعة الزيتونــة الأردنيـة Al-Zaytoonah University of Jordan كلية الصيدلة Faculty of Pharmacy



" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department

OF02/0408-4.0E

Study Plan No.	2021/2022	University Specialization	Bachelor of Pharmacy	
Course No.	0201371	Course Name	Dispensing Lab.	
Credit Hours	1	Prerequisite *Co-requisite	Pharmaceutical Dosage Forms (1) + *Pharmaceutical Dosage Forms (2)	
Course Type	☐ Mandator y Universit y Requirem ent ☐ Universi ty Elective Require ment	☐ Facult y Manda tory Requir ement ☐ Support course family require ments	✓ Mandatory Requirement  □ Elective Require ment	
Teaching Style	☐ Full Online Learning	☐ Blended Learning	☑ Traditional Learning	
Teaching Model	☐ 1 Synchronous: 1 Asynchronous	☐ 1 Face to Face: 1 Asynchronous	☑ 1 Traditional	

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

Name	Academic rank	Office No.	Phone No.	E	-mail
Office Hours (Days/Time)	Sunday, Tuesday, Thursday ()		Monday, Wednesday ()		
Division number	Time	Place	Number of Students	Teaching Style	Approved Model
				Traditional Learning	1 Traditional

#### **Brief Description**

This practical course is designed to introduce the students to the principles and procedures involved in bench scale compounding and dispensing of pharmaceutical dosage forms such as suspensions, emulsions, creams, ointments, pastes, gels, and suppositories. In addition to the practical skills, the students will develop an appreciation for patient education by writing a clear and concise label depicting the use and storage of dispensed medications.

**Learning Resources** 

Learning Resources				
Course Book Information	Pharmaceutics and Compounding lab manual.			
(Title, author, date of issue, publisher				
etc)				
Supportive Learning Resources	1.Aulton's Pharmaceutics; The Design and Manufacture of Medicines, by: M.E. Aulton and K.M.G. Taylor. Sixth Edition. 2022. Elsevier Limited. 2.Pharmaceutical Practice; by: J.A. Rees, I. Smith and J. Watson. Fifth			e of Medicines, by:
• • • • • • • • • • • • • • • • • • • •				Elsevier Limited.
(Books, databases, periodicals, software,				J. Watson. Fifth
applications, others)	Edition. 2014. Churchill Livingstone.			
<b>Supporting Websites</b>				
The Dhawier Farings were for	□ Class	☑ Labs	☑ Virtual	□ Others
The Physical Environment for	room		Educational	
Teaching			Platform	
Necessary Equipment and Software	Moodle.			
recessary Equipment and Software				
Supporting People with Special Needs				
For Technical Support	E-Learning & Open Educational Resources Center.			
For Technical Support	Email: elearning@zuj.edu.jo; Phone: +962 6 429 1511 ext. 425/362.			



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

No.	Course Learning Outcomes	The Associated Program Learning Output Code			
	Knowledge				
The s	student should be able to:				
K1	Differentiate between the different types of pharmaceutical dosage forms (solid, semi-solid, and liquid).	MK2			
K2	Recognize the uses, packaging, labeling, and storage requirements of extemporaneously compounded pharmaceutical dosage forms.	MK2			
	Skills				
The s	The student should be able to:				
S1	Carry out the calculations needed to prepare different types of pharmaceutical dosage forms.	MS4			
S2	Apply the appropriate compounding procedures to prepare liquid (suspensions and emulsions), semi-solid (creams, ointments, gels, and pastes), and solid (suppositories) dosage forms.	MS4			
S3	Write an accurate label for compounded preparations including the use of the preparation, dosing frequency, special instructions and precautions, and proper storage conditions.	MS4			

**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).



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

Week	Subject	Learning Style*	Reference **
1	Check-in: Laboratory instructions and introduction to extemporaneous compounding	Lecture	Lab Manual
2	Suspensions	Lecture, practical learning	Lab Manual, video on E-Learning platform
3	Emulsions part 1	Lecture, practical learning	Lab Manual, video on E-Learning platform
4	Emulsions part 2	Lecture, practical learning	Lab Manual, video on E-Learning platform
5	Ointments	Lecture, practical learning	Lab Manual, video on E-Learning platform
6	Creams part 1	Lecture, practical learning	Lab Manual, video on E-Learning platform
7	Creams part 2	Lecture, practical learning	Lab Manual, video on E-Learning platform
8	Pastes	Lecture, practical learning	Lab Manual, video on E-Learning platform
9	Gels	Lecture, practical learning	Lab Manual, video on E-Learning platform
10	Suppositories part 1	Lecture, practical learning	Lab Manual, video on E-Learning platform
11	Suppositories part 2	Lecture, practical learning	Lab Manual, video on E-Learning platform
12	Cosmetic preparations	Lecture, practical learning	Lab Manual, video on E-Learning platform
13	Final exam (practical)	-	-
14	Check-out		
15			
16	Final Exam (theoretical)		

<sup>\*</sup> Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

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

Week	Task / Activity	Reference	<b>Expected Results</b>
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<sup>\*\*</sup> Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.