



" 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.	0201551		Course Name		Quality Control	
Credit Hours	3		Prerequisite *Co-requisite		Pharmaceutical Technology	
Course Type	☐ Mandatory University Requireme nt	☐ University Elective Requirement	□ Faculty Mandatory Requiremen t	☐ Support course family require ments	☐ Mandat ory Requir ement	☑ Elect ive Requ irem ent
Teaching Style	☐ Full Online Learning		☑ Blend	ded Learning	□ Tradi Learn	
Teaching Model	☐ 1 Synchronous: 1 Asynchronous			e to Face: 1 chronous	□ 2 Trac	ditional

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

Name	Name Academic rank		Phone No.	F	C-mail
Office Hours (Days/Time)	Sunday, Tuesday, Thursday ()		Monday, Wednesday ()		
Division number	Time	Place	Number of Students	Teaching Style	Approved Model
				Blended Learning	1 Face to Face: 1 Asynchronous

Brief Description

This course is designed to discuss the basic and the basics of Good Manufacturing Practice for medicinal products for human use and the current legal regulations and guidelines and the main GMP requirements related to premises, storage facilities and personnel, to be familiar with the principles of the GMP quality system and quality control and the important procedures when dealing with complaints and recalls.

Learning Resources

Learning Resources				
Course Book Information	Good Manufacturing Practices for Pharmaceuticals: GMP in Practice			
(Title, author, date of issue,	July 26, 2017,			
publisher etc)	Mr B N Cooper (Author)			
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	The GMP Handbook: A Guide to Quality and Compliance, by Brendan Cooper (Author), 2017			
Supporting Websites	-			
The Physical Environment for Teaching	☑ Classroom	□ Labs	☑ Virtual Educationa l Platform	□ Others
Necessary Equipment and Software	Moodle			
Supporting People with Special Needs	-			





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For Technical Support

E-Learning & Open Educational Resources Center

Email: elearning@zuj.edu.jo; Phone: +962 6 429 1511 ext. 291

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

No.	Course Learning Outcomes	The Associated Program Learning Output Code				
	Knowledge					
The s	tudent should be able to:					
	Identify the Current Good Manufacturing Practices (CGMP) that					
K1	includes legal and practical implications for manufacturers of	MK2				
	medicinal products and medical devices.					
K2	Recognize the general concepts of GMP covered in this course.	MK2				
K3	Discuss the sanitation in GMP covered in this course.	MK2				
K4	Outline the GMP, SOP and Deviation covered in this course.	MK2				
	Skills					
The s	The student should be able to:					
S1	Overview of Good Manufacturing Practices uses.	MS4				
S2	Quality Management based on the GMP covered in this course.	MS4				
	Competencies					
The student should be able to:						
	Develop his/her professional and personal performance by					
C1	continuously following-up lectures, submitting tasks on time, and	MC2				
C1	staying up to date with the latest Current Good Manufacturing	MC3				
	Practices.					

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%	20%	50%
Asynchronous Interactive Activities	20%	20%	0%	0%
Final Exam	50%	50%	50%	50%

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 Subject	Learning Style*	Reference ** (Pages in Course Book)
1	Overview of Good Manufacturing Practices. Purpose and basic pharmaceutical terms	Lecture	Chapter 1
2	Quality Management	Lecture	Chapter 2
3	Principles of Personnel & GMP Responsibility and hygiene	Lecture	Chapter 3
4	Principles of Personnel & GMP Responsibility and hygiene	Lecture	Chapter 3
5	Buildings and Facilities	Lecture	Chapter 4
6	Process Equipment Processing and packaging	Lecture	Chapter 5
7	Documentation and Records Standard Operating Procedures (SOP) and documentation	Lecture	Chapter 6
8	Documentation and Records Standard Operating Procedures (SOP) and documentation	Lecture	Chapter 6
9	Materials Management Midterm Exam	Lecture	Chapter 7
10	Materials Management	Lecture	Chapter 7
11	Rejection and re-use of materials	Lecture	Chapter 8
12	Validation	Lecture	Chapter 9
13	Validation	Lecture	Chapter 9
14	Change Control	Lecture	Chapter 10
15	Complaints and recalls	Lecture	Chapter 11
16	Final Exam	-	-

^{*} 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	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	Answer questions

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





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		platform	embedded in the video /
			Assignment
5	Self-study	A selected topic	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	Self-study	A selected topic	Assignment
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	Self-study	A selected topic	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	-	-