



QF04/0408-400E	Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ Department of Basic Sciences
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Study Plan No.	2024/2025	University Specialization	Bachelor of Physical therapy
Course No.	0420813	Course Name	Biology for Medical Sciences Lab
Credit Hours	1	Prerequisite *Co-requisite	* Biology for Medical Sciences
Course Type	<input type="checkbox"/> Mandatory University Requirement	<input type="checkbox"/> University Elective Requirement	<input type="checkbox"/> Faculty Mandatory Requirement
			<input type="checkbox"/> Support course family requirements
			<input type="checkbox"/> Mandat ory Requirement
			<input type="checkbox"/> Electi ve Requi remen t
Teaching Style	<input type="checkbox"/> Full Online Learning	<input type="checkbox"/> Blended Learning	<input checked="" type="checkbox"/> Traditional Learning
Teaching Model	<input type="checkbox"/> 1 Synchronous: 1 Asynchronous	<input type="checkbox"/> 1 Face to Face: 1 Asynchronous	<input checked="" type="checkbox"/> 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	
Noor Ahmed Iraqi	Lecturer	234	-	n.iraqi@zuj.edu.jo	
Office Hours (Days/Time)	Sunday(10-2), Tuesday(12-2), Thursday (10-11)		Monday(10-12:30), Wednesday (11-12:30)		
Division number	Time	Place	Number of Students	Teaching Style	Approved Model
				Traditional Learning	1 Traditional

Brief Description

This course covers the practical applications of the most important theoretical concepts covered in the Biology for Medical Sciences course such as knowledge and familiar with the tools, instruments and techniques used in biology, study the general structure of the cell, including the physical and chemical properties of the cell, the human and animal tissues.

Learning Resources

Course Book Information (Title, author, date of issue, publisher ... etc)	1. Laboratory manual of general biology, Third Edition, 2009 2. General Biology 1 Lab Manual, Jeremy Seto,2018			
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	Laboratory Manual for Biology for Medical Sciences, Prepared by M.Sc. Luma Abd Al-Samad & M. Sc. Ibtihal Ibrahim, Al-Zaytoonah University of Jordan			
Supporting Websites	-			
The Physical Environment for	<input type="checkbox"/> Class room	<input checked="" type="checkbox"/> Labs	<input checked="" type="checkbox"/> Virtual Educational	<input type="checkbox"/> Others



فكر حضاري وحوار متمدن
Civilized Thought ...Civilized
Dialogue

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"عراقة وجودة"
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Teaching			Platform
Necessary Equipment and Software	Moodle		
Supporting People with Special Needs	-		
For Technical Support	E-Learning & Open Educational Resources Center. Email: elarning@zuj.edu.jo ; Phone: +962 6 429 1511 ext. 425/362.		

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	Recognize the parts of the cell that can be studied under the light microscope.	MK1
K2	Identify the chemical and physical properties of the living cell.	MK1
K3	Recognize the types, structure, function of animal tissues.	MK1
Skills		
The student should be able to:		
S1	Apply the proper basics of safe lab work.	MS1
S2	Perform standard laboratory procedures employed in biology lab	MS1
S3	Determine the types, the parts, how to use, and take care of the light microscope.	MS1
S4	Report observations and results accurately and precisely.	MS1
Competencies		

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	Learning Style*	Reference **
1	Introduction and Check-in		
2	Tools and instrument used in biology lab	Lecture, lab-based learning	Lab Manual
3	Methods and techniques used in biology lab	Lecture, lab-based learning	Lab Manual
4	The Microscopes	Lecture, lab-based learning	Lab Manual
5	The Structure of the cell	Lecture, lab-based learning	Lab Manual
6	The Cell Chemistry- Biological Molecules-part-1	Lecture, lab-based learning	Lab Manual
7	The Cell Chemistry- Biological Molecules-part-2	Lecture, lab-based learning	Lab Manual
8	The Physical properties of the cell-part-1	Lecture, lab-based learning	Lab Manual
9	The Physical properties of the cell-part-2	Lecture, lab-based learning	Lab Manual
10	Animal tissues-part-1	Lecture, lab-based learning	Lab Manual
11	Animal tissues-part-2	Lecture, lab-based learning	Lab Manual
12	Animal tissues-part-3	Lecture, lab-based learning	Lab Manual
13	Check-out	Lecture, lab-based learning	Lab Manual
14			
15			
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
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