

QF01/0408-4.0E	Course Plan for Bachelor program - Study Plan Development and Updating Procedures/ physics Department
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Study plan No.	2021/2022	University Specialization	Bachelor of physics
Course No.	0150102	Course name	General Physics Lab 2
Credit Hours	1	Prerequisite/ Co-requisite	None
Course type	<input type="checkbox"/> MANDATORY UNIVERSITY REQUIREMENT <input type="checkbox"/> UNIVERSITY ELECTIVE REQUIREMENTS <input type="checkbox"/> FACULTY MANDATORY REQUIREMENT <input type="checkbox"/> Support course family requirements	<input checked="" type="checkbox"/> Mandatory requirements <input type="checkbox"/> Elective requirements	
Teaching style	<input type="checkbox"/> Full online learning	Blended learning	<input checked="" type="checkbox"/> Traditional learning
Teaching model	<input type="checkbox"/> 1 Synchronous: 1 asynchronous	2 face to face : 1 asynchronous	<input checked="" type="checkbox"/> 2 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	
Dr. Bashar S. Aljawarneh	Assistant Professor	129	429	BasharAljawarneh@gmail.com B. Aljawarneh @zuj.edu.jo	
Division number	Time	Place	Number of students	Teaching style	Approved model
1	[ 08:00 – 11:00] M	9143	4	Blended learning	2:1

**Brief description**

Charge and matter. Electric field. Gauss law. Electric potential. Capacitors and dielectrics. Electromotive force and electric circuits. Magnetic field. Ampere's law. Faraday's law of induction. Self-induction.
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**Learning resources**

Course book information (Title, author, date of issue, publisher ... etc)	Laboratory Experiment Physics ( II )			
Supportive learning resources (Books, databases, periodicals, software, applications, others)	1. Fundamental of Physics, by Haliday & Resnik 2015 2. University Physics, by Sears & Zemanisky, 2015. 3. Physics for Scientists and Engineers 9th ed. 2015, Serway			
Supporting websites	<ul style="list-style-type: none"> <li><a href="https://en.wikipedia.org/wiki/Physics">https://en.wikipedia.org/wiki/Physics</a></li> <li><a href="https://ocw.mit.edu/courses/physics">https://ocw.mit.edu/courses/physics</a></li> </ul>			
The physical environment for teaching	<input checked="" type="checkbox"/> Class room	<input checked="" type="checkbox"/> labs	Virtual educational platform	Others
Necessary equipment and software				
Supporting people with special needs				
For technical support				

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

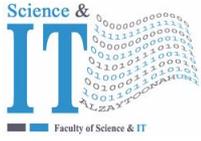
No.	Course learning outcomes	The associated program learning output code
<b>Knowledge</b>		
K1	Define the physical quantities, physical phenomena, and basic principles of physics related to the course	MK 1
K2	Record the physical quantity at the lab.	MK 2
<b>Skills</b>		
S1	Calculate the physical quantities, and basic principles of physics related to the course.	MS 1
S2	Determine some physical quantities at the lab	MS 3
<b>Competences</b>		
C1	Cooperate to work effectively in the group assignments.	MC 1

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%	40%	20%
Participation / practical applications	0	0	10%	30%
Asynchronous interactive activities	30%	20%	0	0
Final exam	40%	50%	50%	50%

Schedule of simultaneous / face-to-face encounters and their topics

Week	Subject	learning style*	Reference **
1	1	CASSY LAB	Sheet
2	1	Recording Equipotential Lines & El. Fields Lines Mapping.	1 – 5
3	1	Ohm's Law	6 – 11
4	1	Wheatstone bridge	12 – 15
5	1	The Galvanometer, Ammeter & Voltmeter	16 – 21
6	1	Kirchhoff's Rules	22 – 25
7		<b>Med term exam</b>	
8	1	Voltage Division with a Potentiometer	26 – 32
9	1	Electrical Power	33 – 36
10	1	Measurement of a Capacitance	37 – 41
11	1	RC-Circuits	42 – 47
12	1	Electromagnetic Induction and Faraday's Law	48 – 53
13	<b>Review and Final Exam</b>		



جامعة الزيتونة الأردنية  
Al-Zaytoonah University of Jordan  
كلية العلوم وتكنولوجيا المعلومات  
Faculty of Science and information  
Technology



"عراقة وجودة"  
"Tradition and Quality"

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