Course Description Form					
1. Course Name:					
General Physics					
2. Course Code:					
	PHYS110				
3. Semester / Year	:				
First semester/2024-2025					
4. Description Preparation Date:					
March/25/2024					
Available Attend	ance Forms:				
	In-person education + blended education				
	t Hours (Total) / Number of Units (Total)				
(2 Hours theoretical + 3 Hours Lab.)/5 units					
7. Course adminis	trator's name (mention all, if more than one name)				
Dr. Mohammed Hussin Ahmed Al-Mola					
8. Course Objective	s				
Course Objectives	Preparing successful graduates in the field of agricultural				
	extension to work in production departments and other institutes				
	and to contribute to the development plan of education.				
	Enabling students to work efficiently as a team with other				
	specializations.				
	Developing the student's capabilities in research and				
	development				
Teaching and Learning Strategies					
Strategy					
	in person lectures and the method of writing on the whiteboard				
	Practical lectures in laboratories				

Methods of small educational groups

and the students

Scientific seminars and direct dialogue between the teacher

10. C	10. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation	
		Outcomes		method	method	
1		a4, a1- Knowing the states of matter and comparing them	States of matter: hypotheses of kinetic theory			
2	2 Theory + 3 Lab.	a2, a1- Identify the mechanical properties of static fluids1.	Mechanical properties of static fluids include types of fluids, density properties, relative density, pressure, and its units.	A person-	Attending, quizzes,	
3		a2, a1, d3- Identify the mechanical properties of static fluids 2	Liquid pressure, gas pressure, volumetric elastic modulus of fluids, discussion of previous materials	using the whiteboard	Assignments, class participations	
4		c3, b3, a1- Specialized mechanical properties	The phenomenon of surface tension, the capillary property, the capillary property of soil, applications of surface tension, the osmotic phenomenon, osmotic pressure.			
5		a3, b4, c4	Exam-1			
6		a3, a1, d3- Identify the mechanical properties of moving fluids	Mechanical properties of moving fluids: types of flow and critical speed		Attending,	
7	2 Theory + 3 Lab.	a3, a1, c1, b1- Identify the important Bernoulli equation in moving fluids	Bernoulli's equation and its practical applications, with solving problems about applications of Bernoulli's equation	A person- lecture using the whiteboard	quizzes, Assignments, class participations	
8		b1, c2, a1- Learn about the Venturi scale.	Venturi scale and Torricelli equation			
9		b5, a1- Learn about the concept of viscosity and how to measure the viscosity of moving fluids	The concept of viscosity and how to measure it			
10		b3, a1- Learn about Bernoulli's equation and its mathematical applications	Solve problems with Bernoulli's equation and viscosity			

11	a2, a1- Students are	Atmospheric physics and	
	introduced to weather	layers of the Earth's	
	concepts specific to the	atmosphere	
	major and atmospheric		
	physics		
12	a4, a1- Identify the	How do pressure and	
	elements of the atmosphere	temperature change with	
		altitude?	
13	a3, b4, c4	Exam-2	

11. Course Evaluation

The score out of 100 is Distributed according to the tasks assigned to the student such as Quizz Questions Sheets, Attending, Participation, Sem-Exam, Lab., and Final exam as follow:

Quizzes: 5%

Questions Sheets: 10%

Attending: 2.5%

Participation: 2.5%

Sem-Exam: 10%

Lab.:10%

Final exam: 60%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	General Physics by Dr. Amjad Karjieh			
Main references (sources)	General Physics by Dr. Amjad Karjieh + Assistant			
	Lieutenant + Practical Physics Lieutenant			
Recommended books and references	All physics sources that talk about the properties			
(scientific journals, reports)	of matter			
Electronic References, Websites	All solid electronic references related to			
	fundamental physics			

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Lecturer
Dr. Mohammed Hussin Ahmed AL-Mola

رئيس قسم المكانن والآلات الزراعية أررتوفل عسس محميد ر رنيس اللجنة العامية د. أركان محمدأمين صديق

