

Jordan University of Science and Technology Faculty of Science & Arts

Physics Department

PHY101A General Physics (1) (For Life Sciences Majors)	PHY101A	General Ph	vsics (1)	(For Life	Sciences	Maiors)
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Summer Semester 2019-2020

Course Catalog

3 Credit Hours. This course gives an introduction to mechanics, motion of particle, Newton laws and energy concept, thermodynamics, fluid mechanics, vibrations and waves.

Text Book				
Title	Physics for Scientists and Engineering with Modern Physics			
Author(s)	R Serway			
Edition	9th Edition			
Short Name	1			
Other Information				

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref 1	Physics	Physics by J Cutnell and K Johnson	9th Edition	
Ref 2	Physics	S Kane	1st Edition	

Instructor		
Name	Bashar Al Jawrneh	
Office Location	-	
Office Hours		
Email	bsaljawrneh@just.edu.jo	

Class Schedule & Room

Section 1:

Lecture Time: Sun, Mon, Tue, Wed: 14:30 - 16:00

,...عاد الكترونية :Room

Tentative List of Topics Covered				
Weeks	Торіс	References		
Weeks 1, 2	Vectors and Motion in one dimension	From 1		
Weeks 3, 4	Motion in two dimensions, Newton?s laws of motion	ch.4 and ch.5 From 1		
Weeks 5, 6	Friction, Work & Energy, Rotational motion	ch. 5, ch.6, ch7 Ch 8 From 1		
Weeks 7, 8	Rotation, Static Equilibrium and Torque, Mechanical properties of solids.	ch 10, ch 11 From 1		
Weeks 9, 10	Temperature and Heat, Laws of Thermodynamics	ch. 19, ch.20 From 1		
Weeks 11, 12	Fluid mechanics	ch 14 From 1		
Week 13	Fluids	ch.14 From 1		
Week 14	Vibrations and Waves	ch 15, ch 16 From 1		

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understanding kinematics and Newton dynamics [31]	30%	
Understanding the concept of energy and Static equilibrium [31]	30%	
Understanding the concept of Heat, Fluid, and wave motion [31]	40%	

Relationship to Program Student Outcomes (Out of 100%)					
1	2	3	4	5	6
100					

Evaluation		
Assessment Tool	Weight	
first	30%	
second	20%	

	Policy
Physics 101A	The student must know the particle kinematics and particle dynamics. The student should know the thermodynamic laws and fluids.

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