General Physics Experiment I - Syllabus

Spring semester 2024

Course information

Code	Title	Credit	Coordinator
PHYS161	General Physics	1	Office of General Physics ($KPOP\mathscr{E}$
FH15101	Experiment I		Collaboration)

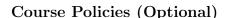
Major Competency based Course Objective: By carrying out fundamental laboratory experiments involving classical mechanics, develop **creative problem-solving** skills and **convergent thinking** skills.

Students recommended to take the course: All students.

Prerequisites: None.

Textbook: KPOP & Physics Experiment A (Version 2024)

Reference: $KPOP\mathscr{E}$ Physics X (Version 2024)



• All courses are taught off-line.

• Evaluation : [15 points per class] × [9 classes] + [orientation 1 points per class] × [2 classes] + α = [137 points total] + α

• A student should upload his/her (team) digital experiment report and discussion answers in the Blackboard system every class hour. (Paperless, no homework, and no Mid/Final exam)

The number of warnings	Penalties
$3 \sim 5$	one-step downgrade
$6 \sim 9$	two-step downgrade
10 or more	F

• If the number of absences is 3 or more, then the grade will be F.

Tentative Course Outline

Week	Dates	ACTIVITIES	Comments
	03/04		
$\mathbf{W1}$	\sim	ORIENTATION	
	03/08		
	03/11		
W2	\sim	SETUP 1	No class
	03/15		
	03/18		
W3	\sim	$\mathbf{A1.} [M]^a [L]^b [T]^c$	
	03/22		
	03/25	\rightarrow ,	
$\mathbf{W4}$	\sim	$\mathbf{A2.} \overrightarrow{F} = m \overrightarrow{a}$	
	03/29		
	04/01		
W5	\sim	SETUP 2	No class
	04/05		
	04/08	→ → _\	
W6	\sim	$\mathbf{A3.} \overrightarrow{F}_{1 \to 2} + \overrightarrow{F}_{2 \to 1} = \overrightarrow{0}$	
	04/12		
	04/15		
W7	\sim	A4. $\Delta E = 0$	
	04/19		
	04/22		
W8	\sim	MIDTERM-EXAM WEEK	No class
	04/26		
	04/29		
W9	\sim	A5. $I = \int r^2 dm$	
	05/03		
	05/06		
W10	~	SETUP 3	No class
	05/10		
	05/13	<u> </u>	Holiday 5/15, No class
W11	~	A6. $T=2\pi\sqrt{rac{\ell}{g}}$	for Wed.
	05/17	<u> </u>	
	05/20		
W12	\sim	DEA-DONG JAE WEEK	No class
	05/24		
	05/27	\rightarrow	
W13	\sim	A7. $\overrightarrow{ au}=rac{d}{dt}\overrightarrow{L}$	
	05/31		
	06/03		Holiday 6/6, No class
W14	~	A8.	for Thur.
	06/07		

W15	06/10 ~	A9. ◀》+《▶ = ◀ ▶
	06/14	
	06/17	
W16	\sim	FINAL OT/ EXAM WEEK
	06/21	