

General Physics Experiment I - Syllabus

Spring semester 2024

Course information


Code	Title	Credit	Coordinator
PHYS161	General Physics Experiment I	1	Office of General Physics (<i>KPOP</i> ^ℰ 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*^ℰ Physics Experiment A (Version 2024) 

Reference: *KPOP*^ℰ Physics X (Version 2024) 


Course Policies (Optional)

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

W15	06/10 ~ 06/14	A9. ◀ + Ⓞ = ◀ ▶
W16	06/17 ~ 06/21	FINAL OT/ EXAM WEEK
