

Women Campus
Math and Sciences Department

Semester (241) 2024-2025
INSTITUTIONAL COURSE SYLLABUS
Physics Lab Outline/Hand-out

Course Code: PHY105 Lab

Credit Hours: 1

Contact Hours: 2

Course Title: Physics - I

Lecturer: Ms. Sara Abuobieda

Email: sabuobieda@psu.edu.sa

Office: Old building, first floor-R 215

Experiments Topics

| Topics | Week # |
|---|--------|
| Introduction (25-29/Aug/2024) | 1 |
| 1. Measurements with Basic Instruments (1-5/Sep./2024) | 2 |
| 2. One-Dimensional Motion: Free Fall (8-12/Sep./2024) | 3 |
| 3. Resultant and Equilibrium Forces (Vectors) (15-19/Sep./2024) | 4 |
| National Day Holiday 22 & 23 /Jan/2024 Sunday & Monday | |
| 4. Two-Dimensional Motion: Projectiles (24-30/Sep. /2024) | 5+6 |
| 5. Newton's Law of Motion (1-7/Oct. /2024) | 6+7 |
| 6. Frictional Forces (8-14/Oct./2024) | 7+8 |
| 7. Thermal Expansion of Solid | |
| 8. Spring Force (Hook's Law) (15-24/Oct. /2024) | 8+9 |
| Extended weekend 17/ Oct//2024 Thursday | |
| 9. Conservation of Energy (1) (20-24/Oct. /2024) | 9 |
| 10. Conservation of Momentum (27-31/Oct. /2024) | 10 |
| Revision | 11 |
| Revision | 12 |
| Final Exam Practical (17-21/Nov./2024) | 13 |
| Final Exam Written Unified | 14 |
| <ul style="list-style-type: none"> Saturday 23/Nov./2024 from 1:00 -1:30 pm | |

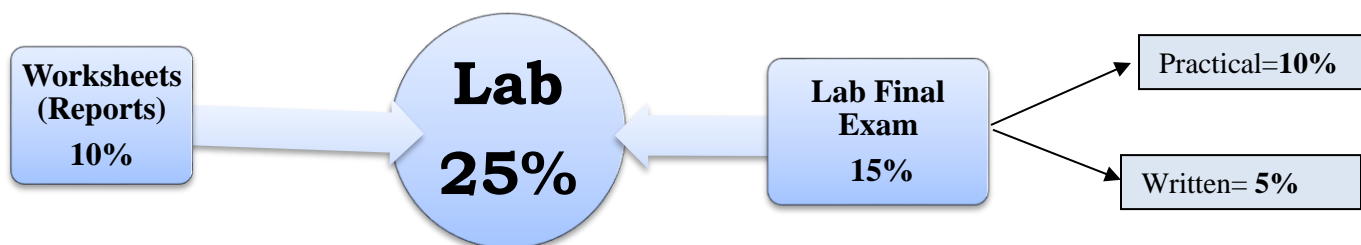
- **Course Requirements**
The course PHY105 is divided into two parts.

Theory (75% of grade)

Practical/Lab (25% of grade)

Lab grade is further divided into:

- Weekly Worksheet (Reports): **10%**
- Final Lab exam total (Practical + Written): **15%**

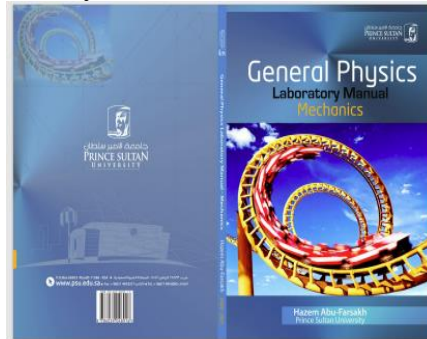


B. Schedule of Assessment

| Assessment | Assessment Task | Week | Proportion of Final Assessment |
|--------------|----------------------------|--|--------------------------------|
| 1 | Worksheet (Reports) | Weekly | 10 % |
| 3 | Final Lab Exam (Practical) | Week 13 Practical Same lab time session for each section) (18-19-20-21/ Nov. 2024) | 10% |
| 2 | Final Lab Exam (Written) | Week 14 Written unified <u>Saturday</u> 23 /Nov./2024 from 1:00 -1:30 pm | 5 % |
| Total | | | 25% |

• **Learning Resources**

Physics 1 Lab Manual (Mechanics), by Hazem Abu-Farsakh (PSU)



- **Main Sources:** Lab Instructional Manual, PASCO Scientific, USA
- **Supplements:** Physics Websites
- **Facilities Required:** Frequent updating of latest Lab software Printer, Maintenance of computers
 - **Additional Information**

- **Attendance**

Please, adhere to the following guidelines:

1. The University attendance policy will be strictly followed. In this course, absence of 25% hours results in a Denied Notice (DN). (Refer to the student regulation handbook for further details.)

It is the sole responsibility of the student to keep satisfying level of attendance. Otherwise, (DN) grade will be granted automatically during any time of the semester without any notice.

- **Cheating and Plagiarism**

Cheating, attempting to cheat, plagiarism or violating instructions and examination regulation shall render the offender subject to punishment in accordance with the student disciplinary rules as issued by the university council.

- **Grading System:**

| | | | |
|-------------------|------------|-------------|------------|
| A+ = 95-100% | A = 90-95% | B+ = 85-90% | B = 80-85% |
| C+ = 75-80% | C = 70-75% | D+ = 65-70% | D = 60-65% |
| F = less than 60% | | | |

- **Classroom etiquettes**

- Do not wear *Abaya, pants, short sleeved shirts, short skirts (i.e., close or above knees)*.
- Do not wear *sunglasses*.
- Do not answer your phone unless there is an emergency.
- Do not use any kind of electronic device (i.e., IPod, smart phones/phones).
- Do not talk during class unless there is a discussion.
- Do not be late.