

## PHY106 SYLLABUS – Summer A semester, 2025.

Week	Room	Date	Experiments
1	102	May 12	Introduction to data analysis
2	104	May 14	The simple Pendulum
3	102	May 16	Acceleration of Freely Falling Bodies
4	104	May 19	Ballistic Pendulum
5	102	May 21	Rotational Motion
6	104	May 23	Transverse Waves in a String
7	102	May 28	Speed of Sound
8	104	May 30	Gas Laws
9	102	June 02	Viscosity
10	104	June 04	Specific Heat

### IMPORTANT NOTES:

#### Laboratory Courses

The Department of Physics offers four undergraduate laboratory courses: PHY106, PHY108, PHY224, and PHY225. Each course consists of ten practical experiments. Specific experiment dates are provided in the SYLLABUS for each course, which also indicates any breaks between sessions.

#### Laboratory Layout

Each laboratory session accommodates a maximum of 18 students, divided into pairs working at nine identical workstations. The number of sections per course is determined by total enrollment. Details about the experiments and schedules can be found on the SYLLABUS on Blackboard platform, the Undergraduate Physics Labs website, and on the side doors of the laboratory rooms.

#### Laboratory Procedures

During the first session, students meet their assigned instructor, who provides an overview of the course and explains the laboratory policies. At the end of each laboratory session, students must submit their completed work to the instructor for evaluation. Throughout the semester, three exams will be administered during the laboratory period. Each exam is worth 100 points, contributing 30% to the final grade. The remaining 70% is based on students' performance during experiments and the quality of their written reports.

### **Laboratory Safety Regulations**

For the safety of both students and laboratory equipment, students may only enter the laboratory when the instructor is already present, consuming food or beverages inside the laboratory is strictly prohibited at all times. If a student needs to eat or drink for health-related reasons, they must request permission from the instructor and step outside the laboratory to do so. Instructors are encouraged to inspect the equipment before each student begins their experiment. For electrical circuits, it is essential to verify proper connections to prevent malfunctions or hazards. Any damage to equipment caused by improper handling or lack of attention will be the student's responsibility. Such incidents may result in a reduction of their grade, and in severe cases, could lead to fail the lab.

### **Attendance Policy**

The laboratory program adheres to a strict schedule due to the high demand for spaces and the rotation of multiple sections. Missing a laboratory session results in a 10% reduction in the final report grade based on the total possible points. If the absence coincides with an exam, those points will also be forfeited. Missing three or more laboratory sessions leads to an automatic failing grade.

Excusable absences include ***participation in university-authorized events*** (with an official UM letter), ***illness*** (supported by a valid medical note), or ***the death of a family member*** (documented with an obituary). Students with valid excuses must contact their instructor to coordinate a make-up session. Unjustified absences are not eligible for make-up opportunities, and the associated grade reductions will apply without exceptions.

These guidelines outline the framework for ensuring organization, fairness, and success in the Department of Physics laboratory courses.

Coordination of Physics laboratories