

Module Handbook

Module Name	Basic Physics 1
Modul Level	Undergraduate
Code	18H02110863
Courses (if applicable)	
Semester	Odd (Ganjil)
Contact Person	Prof. Dr. Paulus Lobo Gareso, M.Sc.
Lecturer	Prof. Dr. Paulus Lobo Gareso, M.Sc.
Language	Bahasa Indonesia and English
Relation to Curriculum	Undergraduate degree program, mandatory, 1 st semester
Type of Teaching, Contact Hours	Lectures, < 60 students, Regular: Monday, 9.40 - 11.20 and Tuesdays, 10.30 - 12.10
Workload	1. Lecture: 2 x 50 = 100 minutes (1.6 hours) / week 2. Exercise and Assignments: 2 x 60 = 120 minutes (2 hours) / week 3. Private study: 2 x 60 = 120 minutes (2 hours) / week
Credit Points	2 Credit Points
Requirements According to the Examination Regulations	A student must have attended at least 75% of the lectures to sit on the final examination.
Mandatory Prerequisites	-
Learning Outcomes and Their Corresponding COs	After completing this module, a student is expected to CO-1 : Being able to analyze the laws of classical and modern physics using mathematical equations to obtain solutions to physics problems related to concepts of quantity and units, kinematics and dynamics, work and energy, momentum, elasticity, oscillatory motion, fluids, and heat (ILO-1) CO-2 : Being able to demonstrate experiments to obtain data on physical phenomena in accordance with the procedures outlined in the laboratory manual and to relate the conclusions from observations to their practical applications (ILO-4) CO-3 : Being able to describe the application of concepts in mechanics, work and energy, momentum, elasticity, oscillation, fluids, and heat in daily life, industry, or technological utilization (ILO-4)
Study and Examination Requirements and Forms of Examination	• Assignment 1, 2, 3, 4 • Mid examination • Laboratory practice • Final examination (laboratory practical exam)
Media Employed	LED, Whiteboard, Learning Management System (SIKOLA)
Assessments and Evaluation	CO-1: Question in assignment 1 (10 %) CO-1: Question in assignment 2 (10 %)

	CO-1: Mid examination (15 %) CO-1: Question in assignment 3 (10 %) CO-1: Question in assignment 4 (10 %) CO-2: Laboratory practice (20 %) CO-3: Final examination (25 %)
Reading List	1. Halliday & Resnick, Fisika Jilid 1, Terjemahan (Erwin Sucipto & Pantur Silaban), Jakarta, Erlangga 1994 2. Laboratory manual