

FI1101 - General Physics

COURSE LESSON PLAN			
STUDY PROGRAM: METEOROLOGY			
FACULTY/SCHOOL: FACULTY OF EARTH SCIENCES AND TECHNOLOGY			
INSTITUT TEKNOLOGI BANDUNG			
Course Code: FI1101	Credits: 3 SKS	Semester: 1	Course Type: Compulsory course
Course Name	Fisika Dasar		
	General Physics		
Related Course	-	-	
Study Materials	Measurement and Units		Express
	Kinematics: Motion in 1, 2, and 3 Dimensions		Express
	Dynamics: Newton’s Laws, Forces, and Motion of Objects		Express
	Work and Energy, Law of Conservation of Energy		Express
	Impulse and Momentum, Law of Conservation of Momentum		Express
	Rotational Motion: Kinematics and Dynamics of Rotational Motion		Express
	Elasticity and Oscillation		Express
	Mechanical Waves		Express
	Static Fluids and Dynamic Fluids		Express
Learning Outcomes			
Code		LO	
PLO-1.1		Capable of utilizing basic mathematics and science as a foundation to understand the fundamentals of meteorology.	
Code	CO	Elements of Course Learning Outcomes (CO)	
PLO-1.1	CO1	Able to formulate physical quantities related to the motion of objects into physical models using mathematics.	
	CO2	Able to apply concepts, principles, and laws related to kinematics, dynamics, and energy, particularly Newtonian mechanics, to solve problems in physical systems.	
	CO3	Able to think critically, logically, systematically, and structurally in solving problems related to physical systems.	
Learning Methods		Lectures, tutorials, discussions, group work, Problem-Based Learning (PBL), and Research-Based Learning (RBL).	
Learning Modalities		Pre-lecture, pre-quiz, active learning, assignments, and quizzes.	
Assessment Method		Quizzes, Midterm Exam, Final Exam, and RBL.	