

FI121 Basic Physics 1

Module name:	Basic Physics 1	
Module level, if applicable:	Undergraduate	
Code:	FI121	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	1 st	
Module coordinator:	Endi Suhendi	
Lecturer(s):	Endi Suhendi	
Language:	Bahasa Indonesia	
Classification within the curriculum:	Compulsory course	
Type of Teaching	Contact hours per week during the semester	Class Size
<ol style="list-style-type: none"> 1. Lecture (conceptual, contextual and problem-solving approaches through expository, discussions and exercises). 2. Structured activities (assignments based on conceptual, contextual, and problem-solving approaches) 3. Self-study (reading literature) 	3 hours 20 minutes	35
Workload:	The total workload is 181 hours 20 minutes (6.4 ECTS) per semester, consisting of: 200 minutes lectures (1.65 ECTS), 240 minutes structured activities (1.98 ECTS), 240 minutes self-study (1.98 ECTS) per week for 14 weeks, 400 minutes for two exams (0.24 ECTS), and 960 minutes for two exam preparations (0.56 ECTS)	
Credit points:	6.4 ECTS	
Pre-requisites course(s):	-	
Course Learning Outcomes (CLO):	<p>After taking this course the students have ability to:</p> <p>CLO1: Describe physics quantities, unit systems, unit conversions, scientific notation, significant numbers, and dimensional analysis.</p> <p>CLO2: Describe the definition of vectors and scalars, addition of vectors geometrically, addition of vectors by components, unit vector, multiplication of vectors by scalar and vectors.</p> <p>CLO3: Analyze the basic concepts of mechanics.</p> <p>CLO4: Analyze the basic concepts of fluid.</p> <p>CLO5: Analyze the basic concepts of oscillation and wave.</p> <p>CLO6: Analyze the basic concepts of thermodynamic.</p>	
Content:	Measurement systems and vector, basic concept of mechanics (motion in one dimension, motion in two dimensions, dynamics, work	

