

FI224 Basic Physics Experiment II

Module name:	Basic Physics Experiment II	
Module level, if applicable:	Undergraduate	
Code:	FI224	
Sub-heading, if applicable:	-	
Classes, if applicable:	-	
Semester:	2 nd	
Module coordinator:	Mimin Iryanti	
Lecturer(s):	Mimin Iryanti and Selly Feranie	
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 (expository method, discussion, presentation, and experiment). 2. Structure activities (assignments based on conceptual, contextual, and problem-solving approaches) 3. Self-study (reading literature) 	100 minutes	20
Workload:	Total workload is 90 hours 3.2 ECTS (5440 minutes) per semester which consists of 1400 minutes (0.82 ECTS) lectures, 1680 minutes (0.98 ECTS) structured activities, 1680 minutes (0.98 ECTS) self-study per week for 14 weeks, 400 minutes (0.2 ECTS) for each exam, and 480 (0.22 ECTS) minutes for each exam preparation.	
Credit points:	4.8 ECTS (3 SKS)	
Pre-requisites course(s):	FI223 Basic Physics Eksperimen I	
Course Learning Outcomes (CLO):	After taking this course, the students have the ability to: CLO1: Explain various methods in a physics experiment CLO2: Describe the measurement error. CLO3: Measure physical quantities. CLO4: Develop basic physics experiments. CLO5: Retrieve and process primary physics experimental data CLO6: Communicate the results of fundamental physics experiments. CLO7: Compile reports on the results of fundamental physics experiments. CLO8: Apply academic ethics discipline during lectures	
Content:	Electrical circuits, Switch circuits, capacitors, magnetism, self-inductance, optics (reflection and refraction of light)	

