



UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Department of Computer Science and Electronics

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Bachelor in Electronics and Instrumentation

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MODULE HANDBOOK

Module name	Experiment on Physics 2			
Module level	Undergraduate			
Code	MFF-1014			
Courses (if applicable)	Experiment on Physics 2			
Semester	Even			
Contact person	Teaching Staff of Basic Physics Laboratory			
Lecturer	Teaching Staff of Basic Physics Laboratory			
Language	Bahasa Indonesia			
Relation to curriculum	Compulsory Courses for undergraduate program in Bachelor of Electronics and Instrumentation			
Type of teaching, contact hours	CBL (Case-based Learning): Pretest, Presentation of material and some display material, Hands-on experiments using available set-ups, Making reports			
Workload	1. Lectures: 1 x 50 = 50 minutes per week. 2. Exercises and Assignments: 1 x 60 = 60 minutes per week. 3. Self-Learning: 1 x 60 = 60 minutes per week.			
Credit points	1 credit point			
Requirements according to the Examination regulations	A student must have attended at least 75% of the lectures to sit in the exams.			
Recommended prerequisites	-			
Learning outcomes (course outcomes) and their corresponding PLOs	After completing this module, a student is expected to: CO1 be able to explain the concepts that underlie optical phenomena and relate them to the basic concepts [PLO 2 PLO 4 PLO 5]. CO2 be able to explain the concepts of electrical phenomena and relate them to the basic concepts obtained. [PLO 2 PLO 4 PLO 5]. CO3 be able to convey their experiments' results in a written report [PLO 3]. CO4 be able to work individually or in groups in experiments [PLO 3].			
	PLO	CO 1	CO 2	CO 3 CO 4

	Program Learning Outcome (PLO)	PLO1				
		PLO2	√	√		
		PLO3			√	√
		PLO4	√	√		
		PLO5	√	√		
Media employed	Offline (Experimental tool) and Online (Zoom Meeting, Google Meet, Google Classroom)					
Assessments and Evaluation	Cognitive: Pretest, Final test Psychomotor: Experiment Affective: Experiment Report					
Reading List	1. Buku Panduan Praktikum Fisika Dasar II 2. Wilson, J.D.,& Hernandez, C.A.,2014, Physics Laboratory Experiments, 7th ed, BROOKS/COLE Cengage Learning, USA. 3. Kraftmakher, Y., 2015, Experiments and Demonstrations in Physics, 2nd ed., World Scientific Publishing Co. Pte. Ltd..					