

**SEMESTER LEARNING ACTIVITY PLANS
(SLAP)
SEMESTER ODD/EVEN 2022/2023**



Physics Undergraduate Study Program
Physics Department
Laboratory Internship**)
MFF 2062/ 1 Credits

Lecturer Coordinator:
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Tim Laboratorium Fisika Dasar

**UNIVERSITAS GADJAH MADA
FACULTY OF MATHEMATICS AND NATURAL SCIENCE
2022**



Universitas Gadjah Mada

Faculty of Mathematics and Natural Science
 Physics Department / Physics Undergraduate Study Program
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Document Number :

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Code	Course Name	Credits (Credits)		Semester	Status	Prerequisite
MFF 2062	Laboratory Internship**)	T: 1	P: ...	ODD/EVEN	Compulsory	Basic Physics II Experiment (MFF1014)
Short Description	<p>The Laboratory Internship course is a compulsory one-credit course in the 2021 Curriculum of the FMIPA UGM Physics Study Program. The general objective of holding this Constitutional Court is to provide mastery of knowledge related to physics practicum material in the introductory lab. The 2021 curriculum of the Courses Physics Study Program is associated with competencies in aspects of Attitude (PLO 1), Knowledge (PLO 2), general skills aspects (PLO 3), special skills aspects (PLO 4), and aspects of long life learning/self-development (PLO 5). Learning is carried out based on a face-to-face schedule in the laboratory for eight weeks, with each week's meeting held for 180 minutes. The steps taken are to experiment with the tool before starting the practicum, and then students are asked to make presentations on the practical material that will be assisted. Next are practicum activities and assessing the reports of assisted practitioners.</p>					
Program Learning Outcomes (PLO) Imposed on the Course	PLO 1	Attitude. Have faith and fear of God Almighty, and apply good morals, ethics, initiative, and responsibility in completing their duties.				
	PLO 2	Knowledge. Able to explain theoretical concepts and principles of classical and modern physics and able to apply basic concepts of physics and related mathematical methods in finding solutions to physical problems.				
	PLO 3	General Skills. Able to communicate the results of problem studies and physical behavior both in writing and verbally, as well as being able to lead and collaborate at various levels of roles in a team.				
	PLO 4	Special Skills. Able to design and carry out experiments/theoretical reviews, able to identify a physical problem based on the results of observations and experiments, and able to operate related technologies.				
	PLO 5	Long Life Learning. Able to analyze various alternative solutions to physical problems and conclude them for appropriate decision-making, both in familiar and new problems.				
Course Outcomes (CO)	After completing this course, students are expected to be able to:					
	CO1	Students can explain the concepts of mechanical phenomena and relate them to the basic concepts that have been obtained [PLO 1, PLO 2, PLO 4, PLO 5]				
	CO2	Students can explain the concepts of heat phenomena and relate them to the basic concepts that have been obtained [PLO 1, PLO 2, PLO 4, PLO 5]				
	CO3	Students can explain the concepts of electrical phenomena and relate them to the basic concepts obtained. [PLO 1, PLO 2, PLO 4, PLO 5]				
	CO4	Students can explain the concepts that underlie optical phenomena and relate them to the basic concepts [PLO 1, PLO 2, PLO 4, PLO 5]				
	CO5	Students can convey the results of their experiments in the form of written reports [PLO 3].				
	CO6	Students can work individually or in groups in experiments [PLO 3].				

	Project Results/ Case Study Results/ PBL Results*									
	Cognitive									
	Attendance	30		√	√	√	√	√	√	√
	Practicum Report	20		√	√	√	√	√	√	√
	Presentation	20		√	√	√	√	√	√	√
	Assistance Assesment	30		√	√	√	√	√	√	√
	Total	100								
*) can also be obtained from the Midterm or Final Exam as the result of participatory activities or project/ case study results. According to IKU 7, the percentage of project results/ case study/ PBL results is at least 50%.										
References	Main References; 1. Buku Panduan Praktikum Fisika Dasar Layanan.									
Lecturers (Team Teaching)	1. Dr. Sc. Ari Dwi Nugraheni 2. Tim Laboratorium Fisika Dasar									
Authorization	Date of Drafting	Lecturer Coordinator	Head of Curriculum Committee		Head of Study Program					
		<i>Dr. Sc. Ari Dwi Nugraheni</i>			<i>Dr. Eng. Ahmad Kusumaatmaja, S.Si., M.Sc.</i>					