

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



National Seminar
MFF6021 / 3 Credits

Lecturer Coordinator:
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**UNIVERSITAS GADJAH MADA
FACULTY OF MATHEMATICS AND NATURAL SCIENCE
2022**



Universitas Gadjah Mada

Faculty of Mathematics and Natural Science

Physics Department / Study Program Master Physics

Semester Odd/Even 2022/2023

SEMESTER LEARNING ACTIVITY PLANS (SLAP)

Code	Course Name	Credits (credits)	Semester	Status	Prerequisite												
<i>MFF6021</i>	<i>National Seminar</i>	<i>3</i>	<i>Odd/Even</i>	<i>Elective</i>	<i>Can only be taken by students on the research path</i>												
Short Description	<p>National Seminar course is Elective course 3 credits (Theory) in the 2022 Curriculum Master Physics Study Program, Faculty of Mathematics and Natural Science UGM.</p> <p>The syllabus of this course is as follows: Delivering paper presentations in a national seminar. The national seminar that is attended must be with the permission of the academic supervisor/thesis. Before the presentation at the national seminar, a limited presentation was made within the scope of KBK, guided by an academic supervisor/thesis.</p> <p>The courses are held in class for 14 weeks, each week's session last for 3 x 50 minutes. Four weeks of course period is used for Midterm Exam and Final Exam, each held for two weeks as scheduled.</p> <p>Student evaluation for course assessments is performed summative and formative. The summative evaluation is implemented as written exams, both Midterm and Final Exam, which take a maximum of 120 minutes. The formative evaluation is implemented as individual assignments for each student in the form of completing an assignment individually. Monitoring is carried out by observing student activities during the course, such as attendance, Q&A and discussion about the material presented, and student performance in completing individual assignments.</p>																
Program Learning Outcomes (PLO) Imposed on the Course	<table border="1"> <tbody> <tr> <td>PLO 1</td> <td>Have a commendable attitude and ethics as a scientist.</td> </tr> <tr> <td>PLO 2</td> <td>Having the professional ability of a scientist.</td> </tr> <tr> <td>PLO 3</td> <td>Mastering further knowledge of classical and modern physics theory, and its relationship with other disciplines, and has mastered an advanced field of physics specialization that allows him to keep up with the latest international research developments.</td> </tr> <tr> <td>PLO 4</td> <td>Mastering various mathematical disciplines related to an advanced field of physics, and able to develop physical models using various mathematical and computational tools with an inter or multidisciplinary approach to solving problems related to an advanced field of physics.</td> </tr> <tr> <td>PLO 5</td> <td>Able to plan, manage and carry out experiments and conclude the results, or be able to create and use modeling and simulations based on the basic principles of physics to study and solve a problem in a scientific field of Physics or applied Physics that produces models, methods, or theories tested and innovative.</td> </tr> <tr> <td>PLO 6</td> <td>Able to apply knowledge to analyze, synthesize, formulate problems and solve problems comprehensively in one of advanced field of physics, through experimental or theoretical research, then be able to classify and draw conclusions about their findings for the development of science and technology.</td> </tr> </tbody> </table>					PLO 1	Have a commendable attitude and ethics as a scientist.	PLO 2	Having the professional ability of a scientist.	PLO 3	Mastering further knowledge of classical and modern physics theory, and its relationship with other disciplines, and has mastered an advanced field of physics specialization that allows him to keep up with the latest international research developments.	PLO 4	Mastering various mathematical disciplines related to an advanced field of physics, and able to develop physical models using various mathematical and computational tools with an inter or multidisciplinary approach to solving problems related to an advanced field of physics.	PLO 5	Able to plan, manage and carry out experiments and conclude the results, or be able to create and use modeling and simulations based on the basic principles of physics to study and solve a problem in a scientific field of Physics or applied Physics that produces models, methods, or theories tested and innovative.	PLO 6	Able to apply knowledge to analyze, synthesize, formulate problems and solve problems comprehensively in one of advanced field of physics, through experimental or theoretical research, then be able to classify and draw conclusions about their findings for the development of science and technology.
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	PLO 7	Able to communicate and discuss orally and in writing the results of studies, and mastery of various problems in the field of physics and other related fields in Indonesian and English, as well as being able to document and save the results of the study and mastery, and publish them in reputable scientific forums or scientific journals.			
Course Outcomes (CO)	Upon completion of this course, students should be able to:				
	<i>CO1</i>	Explaining research and research results in a concise form of presentation in Bahasa.			
	<i>CO2</i>	Presenting research and research results in an international seminar in Bahasa.			
	<i>CO3</i>				
	<i>CO4</i>				
	<i>CO5</i>				
	<i>CO6</i>				
	<i>CO7</i>				
	<i>CO8</i>				
The Correlation of CO to Learning Materials and Methods, and Time Allocation		Learning Materials	Learning Methods	Time Allocation	
	<i>CO1</i>			3 x 50 minutes	
	<i>CO1</i>			3 x 50 minutes	
	<i>CO1</i>			3 x 50 minutes	
	<i>CO2</i>			3 x 50 minutes	
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	<i>CO4</i>			3 x 50 minutes	
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	Final Exam/ Project Task Results/ Case Analysis Results				

