



Universitas Negeri Surabaya
Faculty of Mathematics and Natural Sciences
Physics Education Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date																																												
Seminar	8420302184		T=2	P=0	ECTS=3.18	6	July 17, 2024																																												
AUTHORIZATION	SP Developer		Course Cluster Coordinator			Study Program Coordinator																																													
			Mita Anggaryani, M.Pd., Ph.D.																																													
Learning model	Case Studies																																																		
Program Learning Outcomes (PLO)	PLO study program which is charged to the course																																																		
	Program Objectives (PO)																																																		
	PLO-PO Matrix																																																		
		P.O																																																	
	PO Matrix at the end of each learning stage (Sub-PO)																																																		
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"></td> <td colspan="16" style="text-align: center; border-bottom: 1px solid black;">Week</td> </tr> <tr> <td style="border-right: 1px solid black; border-bottom: 1px solid black;">P.O</td> <td style="border-bottom: 1px solid black;">1</td> <td style="border-bottom: 1px solid black;">2</td> <td style="border-bottom: 1px solid black;">3</td> <td style="border-bottom: 1px solid black;">4</td> <td style="border-bottom: 1px solid black;">5</td> <td style="border-bottom: 1px solid black;">6</td> <td style="border-bottom: 1px solid black;">7</td> <td style="border-bottom: 1px solid black;">8</td> <td style="border-bottom: 1px solid black;">9</td> <td style="border-bottom: 1px solid black;">10</td> <td style="border-bottom: 1px solid black;">11</td> <td style="border-bottom: 1px solid black;">12</td> <td style="border-bottom: 1px solid black;">13</td> <td style="border-bottom: 1px solid black;">14</td> <td style="border-bottom: 1px solid black;">15</td> <td style="border-bottom: 1px solid black;">16</td> </tr> </table>																	Week																P.O	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Short Course Description	The Colloquium for Physics Education Study Program students is a research design development course before the thesis. The Colloquium studies physics education research topics which will become references for thesis research in the form of a literature search. Colloquium papers physics education research must contain basic educational principles and theories, and Physics material for schools. The focus of discussion of Colloquium papers is research that is relevant to problems in Physics learning and Physics learning innovations.																																																		
References	Main :																																																		
	<ol style="list-style-type: none"> 1. Prastowo, T. & Madlazim. 2013. Lecture Notes on Research Methodology for Physics Students . Unpublished work. 2. Abdullah, M. 2011. Tuntunan Praktis Menulis Makalah Untuk Jurnal Ilmiah Internasional . Unpublished work. 3. ITB Journal of Sciences: http://journal.itb.ac.id/index.php?li=articlesandabstracts&id=184&pre=1&pageA=1&awalA=0 4. Indonesian Journal of Physics (IJP): http://ijp.papsi.org/index.php/ijp/issue/archive 5. MAKARA of Science Series: http://journal.ui.ac.id/index.php/science/issue/current 6. Jurnal BMKG: http://www.bmkg.go.id/Puslitbang/Jurnal_MG/Jurnal_MG.bmkg 7. Jurnal Fisika HFI: http://situs.jurnal.lipi.go.id/jfhfi/ 																																																		
	Supporters:																																																		
Supporting lecturer	Prof. Dr. Budi Jatmiko, M.Pd. Dra. Suliyannah, M.Si. Dr. Titin Sunarti, M.Si. Drs. Imam Sucahyo, M.Si. Dr. Dwikoranto, M.Pd. Prof. Dr. Wasis, M.Si. Woro Setyarsih, S.Pd., M.Si. Dr. Eko Hariyono, S.Pd., M.Pd. Setyo Admoko, S.Pd., M.Pd. Abd. Kholiq, S.Pd., M.T. Abu Zainuddin, S.Pd., M.Pd. Prof. Nadi Suprpto, S.Pd., M.Pd., Ph.D. Mita Anggaryani, M.Pd., Ph.D. Mukhayyarotini Niswati Rodliyatul Jauhariyah, S.Pd., M.Pd. Nurita Apridiana Lestari, S.Pd., M.Pd. Utama Alan Deta, S.Pd., M.Pd., M.Si. Dr. Binar Kurnia Prahani, S.Pd., M.Pd.																																																		
Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)																																												
		Indicator	Criteria & Form	Offline (offline)	Online (online)																																														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)																																												

1	Understand the techniques for preparing a scientific work	1. Explain the meaning of scientific work. 2. Explain the components of scientific work	Form of Assessment : Participatory Activities	Presentation and discussion 2 X 50			5%
2	Able to search library materials	1.Explain the types of library materials 2.Able to search for library sources	Criteria: 1.The assessment is carried out on the following aspects: 2.1. Participation in lectures and seminar paper presentations (weight 2) Form of Assessment : Participatory Activities	Presentation and discussion 2 X 50			5%
3	Able to search library materials	1.Explain the types of library materials 2.Able to search for library sources	Criteria: 1.The assessment is carried out on the following aspects: 2.1. Participation in lectures and seminar paper presentations (weight 2) Form of Assessment : Participatory Activities	Presentation and discussion 2 X 50			5%
4	Able to search library materials	1.Explain the types of library materials 2.Able to search for library sources	Criteria: 1.The assessment is carried out on the following aspects: 2.1. Participation in lectures and seminar paper presentations (weight 2) 3.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3) Form of Assessment : Portfolio Assessment	Presentation and discussion 2 X 50			5%
5	Able to search library materials	1.Explain the types of library materials 2.Able to search for library sources	Criteria: 1.The assessment is carried out on the following aspects: 2.1. Participation in lectures and seminar paper presentations (weight 2) 3.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3) Form of Assessment : Portfolio Assessment	Presentation and discussion 2 X 50			5%

6	Able to prepare the introductory part of a research proposal	1. Able to prepare the background of the problem 2. Able to formulate the problem 3. Able to formulate research objectives 4. Able to formulate the benefits of research 5. Able to formulate operational definitions 6. Able to formulate research assumptions and limitations	Criteria: 1.The assessment is carried out on the following aspects: 2.1. Participation in lectures and seminar paper presentations (weight 2) 3.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3) Form of Assessment : Participatory Activities, Portfolio Assessment	2 X 50			5%
7	Able to prepare the literature review section of a research proposal	1. Able to compile theoretical studies supporting research 2. Able to compile relevant research results 3. Able to develop a framework for thinking	Form of Assessment : Participatory Activities, Portfolio Assessment	Discussions, presentations and consultations 2 X 50			5%
8	UTS. Presentation of background, literature review, and framework		Form of Assessment : Practice / Performance	2 X 50			10%
9	Developing research methodology	Develop a research methodology according to the problem posed	Form of Assessment : Portfolio Assessment	Discussion, Mentoring 2 X 50			5%
10	Developing research methodology	Develop a research methodology according to the problem posed	Form of Assessment : Portfolio Assessment	Discussion, Mentoring 2 X 50			5%
11	Developing research methodology	Develop a research methodology according to the problem posed	Form of Assessment : Portfolio Assessment	Discussion, Mentoring 2 X 50			5%
12	Understand research instruments	Students can prepare research instruments	Form of Assessment : Practice / Performance	Assistance 2 X 50			5%
13	Understand research instruments	Students can prepare research instruments	Form of Assessment : Practice / Performance	Assistance 2 X 50			5%
14	Understand how to analyze research data	Calculating/analyzing research data	Criteria: 1.The assessment is carried out on the following aspects: 2.1. Participation in lectures and seminar paper presentations (weight 2) Form of Assessment : Portfolio Assessment	Mentoring/workshop 2 X 50			5%

15	Understand how to analyze research data	Calculating/analyzing research data	Criteria: 1. The assessment is carried out on the following aspects: 2.1. Participation in lectures and seminar paper presentations (weight 2) 3.3. Assessment of structured assignments and seminar papers or draft proposals, then given weights (3) Form of Assessment : Portfolio Assessment, Practice / Performance	Mentoring/workshop 2 X 50			5%
16			Criteria: The final semester exam (UAS) is used to measure presentation skills and defend seminar papers or research proposal drafts and the results are given a weight of 5. Form of Assessment : Project Results Assessment / Product Assessment	Mentoring/workshop 2 X 50			20%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	20%
2.	Project Results Assessment / Product Assessment	20%
3.	Portfolio Assessment	37.5%
4.	Practice / Performance	22.5%
		100%

Notes

- Learning Outcomes of Study Program Graduates (PLO - Study Program)** are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- The PLO imposed on courses** are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- Indicators for assessing** ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- Forms of assessment:** test and non-test.
- Forms of learning:** Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- Learning Methods:** Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- The assessment weight** is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- TM=Face to face, PT=Structured assignments, BM=Independent study.