

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

Document Code

SEMESTER LEARNING PLAN

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Courses		CODE	Course Family		Credit Weight			SEMESTER	Compilation Date		
Study of Science Education Research Results		8420103064			T=3	P=0	ECTS=4.77	6	July 18, 2024		
AUTHORIZATION		SP Developer		Course Cluster Coordinator			r	Study Program Coordinator			
								Prof. Dr. Erman, M.Pd.			
Learning model	Project Based Learning										
Program Learning	PLO study program that is charged to the course										
Outcomes (PLO)	Program Objectives (PO)										
(FLO)	PLO-PO Matrix										
	P.0										
	PO Matrix at the end of each learning stage (Sub-PO)										
		P.O Week									
		1 2 3 4	4 5 6	6 7	8	9	10 11 12	2 13 14	15 16		
Short Course Description	Discussion of at least 5 recent articles (last 5 years) published in international journals (4 articles) and published in nationally accredited journals (1 article) that are relevant to the student's thesis research idea through search, analysis, summary, creation and presentation activities.										
References	Main :										
	 1. Journal of Research in Science Teaching, Vol 54, No. 4 April, 2017, Wiley & Son Journal of Teaching Science, 56 (1), March 2010, ASTA Journal of Teaching Science, 56 (2), June 2010, ASTA Journal of Teaching Science, 56 (3), June 2010, ASTA Journal Penelitian Pendidikan IPA Indonesia, PPII & Unnes Jurnal Ilmu Pendidikan (JIP), Ikatan Sarjana Pendidikan Indonesia, UM Jurnal lain yang relevan 										
Supporting lecturer											

Week-	Final abilities of each learning stage (Sub-PO)	E	valuation Criteria & Form	Le Stu Offline	Help Learning, arning methods, dent Assignments, Estimated time] Online (<i>online</i>)	Learning materials [References]	Assessment Weight (%)
				(offline)	ζ, γ		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1							0%
2							0%
3							0%
4							0%
5							0%
6							0%
7						_	0%
8							0%
9							0%
10							0%
11							0%
12							0%
13							0%
14							0%
15							0%
16							0%

 Evaluation Percentage Recap: Project Based Learning

 No
 Evaluation

 Percentage

 0%

Notes

- 1. 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.
- 2. 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.
- 3. **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.
- 4. **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.
- 5. **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.
- 6. 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.
- 7. Forms of assessment: test and non-test.

- 8. 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.
- 9. 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.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 11. 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%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.