

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

Document Code

SEMESTER LEARNING PLAN

Courses		COD	E	Course Family		Credit Weight		SEMESTE	R Compilation Date			
Laboratory Work Management and Safety		8420	0103161			T=3	P=0	ECTS=4.77	3	July 17, 2024		
AUTHORIZATION		SP D	SP Developer			Course Cluster Coordinator				Study Program Coordinator		
		Hiday	Laily Rosdiana, Siti Nurul Hidayati, Hasan Subekti, Dyah Astriani			Nurul	Hiday	ati	Prof. Dr. Erman, M.Pd.			
Learning model	Project Based Learning											
Program Learning Outcomes (PLO)	PLO study program that is charged to the course											
	Program Objectives (PO)											
	PLO-PO Matrix											
			P.O									
	PO Matrix at the end of each learning stage (Sub-PO)											
		P.O Week										
			1 2 3 4	4 5 6	5 7	8	9	10 11 2	L2 13 14	15 16		
Short Course Description			es laboratory m urity, making so							costs, laboratory DPs.		
References	Main :											
	 Bettelheim & Landesberg.2000. Laboratory Experiments for General, Organics, and Biochemistry Laboratory Handbook for Teacher. Sri Hidayati S. 2001. Penyediaan Alat dan Bahan Praktikum.Makalah Pelatihan Teknisi Laboratorium Kimia/Biologi Madrasah Aliah se-JawaTimur di Madiun. Supriono, Sri Hidayati dan Isnawati. 2011. Pelatihan atau Pembinaan Laboran Sekolah Jatim. Handout, tidak diterbitkan. 											
	Supporters:											
Supporting lecturer		iad Búd riani, S. ubekti, S	S.Pd., M.Pd.									

Week-	Final abilities of each learning stage (Sub-PO)	E	valuation	Le Stu	Help Learning, earning methods, dent Assignments, Estimated time]	Learning materials	Assessment Weight (%)
		Indicator	Criteria & Form	Offline (offline)	Online (<i>online</i>)	References]	
(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

- 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** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities 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.