

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

Document Code

UNES	UNESA									
	SEMESTER LEARNING PLAN									
Courses			CODE		Course Family	С	redi	t Weight	SEMESTER	Compilation Date
Quantum Mechanics		841030	02012		Т	=2	P=0 ECTS=4.48	2	July 19, 2024	
AUTHORIZATION		SP De	SP Developer		Course Cluster Coordinator		Study Program Coordinator			
							Dr. Titin Sunarti, M.Si.			
Learning model	Cas	e Studi	ies							
Program	n PLC	PLO study program that is charged to the course								
Learning Outcome		Program Objectives (PO)								
(PLO)	PLC	PLO-PO Matrix								
		P.O								
	РО	PO Matrix at the end of each learning stage (Sub-PO)								
			P.O Week 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16						15 16	
Short Course Descript	tion									
Referen	ces Mai	Main:								
	Sup	Supporters:								
Supporting lecturer										
Week-	Final abilities of each learning stage (Sub-PO)		Evaluation			Help Learning, Learning methods, Student Assignments, [Estimated time]			Learning materials	Assessment
			Indicator	Criteria & Fo	rm Offl		On	nline (<i>online</i>)	References]	Weight (%)
(1)	(2)		(3)	(4)	(5	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: Case Study

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.
- 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.