

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

Document Code

SEMESTER LEARNING PLAN										
Courses		CODE		Course Family		Credit We	ight	SEMESTER	Compilation Date	
Functional Analysis		44201	03013			T=3 P=0	ECTS=4.77	8	July 18, 2024	
AUTHOR	RIZATION	SP De	SP Developer		Course Cluster Coordinator		Study Program Coordinator			
							Prof. Dr. Raden Sulaiman, M.Si.			
Learning model Project Based Learning										
Program Learning	d	PLO study program that is charged to the course								
Outcom (PLO)	es Progra	Program Objectives (PO)								
(1 20)	PLO-PO	PLO-PO Matrix								
		P.O								
	PO Mat	PO Matrix at the end of each learning stage (Sub-PO)								
		P.O	P.O Week 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16							
Short Course Description  This course examines the understanding of metric spaces in general, surroundings, position of positi						ness of metric spaces, Hilbert				
Referen	ces Main:	Main:								
	2.	<ol> <li>Kreyzig. 1978. Introductory to Functional Analysis . Canada. John Wiley &amp; Sons.</li> <li>Berberian. 1961. Introducton to Hilbert Space . New York : Oxford University Press.</li> <li>Royden, H.L. and Fitzpatrick. 2010. Real Analysis (4th edition). New York: Pearson</li> </ol>								
	Suppor	Supporters:								
Supporting lecturer Prof. Dr. Manuharawati, M.Si.										
Week-	Final abilities of each	E	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]			Learning materials	Assessment	
	learning stage (Sub-PO)	Indicator	Criteria & Fo	orm Offli ( offli )		Online	( online )	References ]	Weight (%)	
(1)	(2)	(3)	(4)	(5)	)		(6)	(7)	(8)	
1									0%	
2									0%	

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5 6	0%
6	0%
7	0%
	1
8	0%
9	0%
10	0%
11	0%
12	0%
13	0%
14	0%
15	0%
16	0%

Evaluation Percentage Recap: Project Based Learning

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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.
- 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.
- 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.
- 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%.
- ${\bf 12.}\ \ {\sf TM}\text{=}{\sf Face}\ to\ face,\ {\sf PT}\text{=}{\sf Structured}\ assignments,\ {\sf BM}\text{=}{\sf Independent}\ study.$