

Universitas Negeri Surabaya **Bachelor**

Document Code

Faculty	⁷ of Education,	
r of Primary School	Teacher Education	Study Program

SEMESTER LEARNING PLAN

Courses		CODE		Cou	irse Fa	amily	nily Credit Weight			SEM	ESTER	Com	pilation				
Numbers and Data Processing			8620602194				T=2 P=0 ECTS=3.1		=3.18		1	July 1	L6, 2024				
AUTHORIZATION			SP Develop	er			Co	ours	se Clu	ister (Coordi	nator	Study Program Coordinator				
									Putri Rachmadyanti, S.Pd., M.Pd.								
Learning model		Project Based Learning															
Program	ı	PLO study pro	ogram	that is charged to the course													
Learning) es	Program Obje	ctives	(PO)	-												
(PLO)		PLO-PO Matrix	x	. ,													
			P.0														
		PO Matrix at th	he enc	l of each lea	rning stage	e (Sub	-PO)										
			Р	°.0				Week									
				1 2	3 4	5	6	7 8	3	9	10	11	12	13	14	15	16
Short Course Descript	tion	This course prov of data processi assignments. E assignments, gro	vides ki ing. Th Evaluati oup as	nowledge abo e learning pro ion of learni signments and	out set theory ocess include ing outcome d class activit	, introd es activ es incl ties.	uction vities, p udes	to ma providi mid-s	ather ing i seme	natica inforn ester	al logi nation, exan	c, basic group is, fina	: numb work, al sen	er con presei tester	cepts a ntations exams	nd basi , and ir s, inde	c theory ndividual pendent
Reference	ces	Main :															
 Bobrow, Jerry. 2003. Aljabar I. Bandung: Pakar Raya. Amin, Siti M. 2001. Model Deduktif. Surabaya: Unipress Soemiadji. 1998. Model Induktif. Surabaya: Unipress U Sukirman. 1997. Ilmu Bilangan. Universitas Terbuka. Hudoyo, Herman. 1996. Matematika. Jakarta: Depdikb Kohn, Edward & Herzog, David Alan. 2004. Ketrampila Keddy, Maryin. 1986. Algebra. Canada: Addeson-Wes 						ss Une Jnesa bud. an Alja sley Pu	esa. abar ublis	II. Ba	andun Comp	g: Paka any, In	ır Raya c.	ι.					
		Supporters:															
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Supporting lecturer Drs. H. Budiyono, S.Pd., M.Pd. Dr. Wiryanto, M.Si. Neni Mariana, S.Pd., M.Sc., Ph.D. Ika Rahmawati, S.Si., M.Pd. Delia Indrawati, S.Pd., M.Pd.																	
Week- Sta (Su		al abilities of h learning ge		Evaluation				l St	Help Learning, Learning methods, Student Assignments, [Estimated time]				Lea mat	terials	Asse Wei	essment ght (%)	
		ıb-PO)		ndicator	Criteria &	Form	0	ffline)	C	nline	(onlin	e)	1			
(1)	L) (2)			(3)	(4)			(5)				(6)			(7)		(8)

1	Mastering mathematical logic concepts	 Determine the solution steps in mathematical logic problems. Determine the conclusion from the results of the relationship between the premises. 	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
2	Mastering the concept of sets and set relations	1. define the empty set and the universal set. 2. express a set in various forms. 3. states the number of members of a set. 4. master set relation theory. 5. master set operations. 6. depict the set in the form of a Venn diagram	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
3	Mastering the concept of the number base of the Roman numeration system and place value	1. Master the application of number bases currently used. 2. explain the numeration system in mathematics. 3. master the concept and use of Roman numbers. 4. Determine place value	Criteria: Activeness and matery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
4	Mastering the concept of exponent numbers	1. describe the concept of exponent numbers 2. prove the properties of exponent numbers 3. describe the properties of operations for calculating exponent numbers. 4. Determine how to find the roots of exponent numbers	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
5	Mastering the concept of natural and whole numbers as well as arithmetic operations.	1. Explain the definition of natural numbers and whole numbers. 2. explain the properties of whole number operations.	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
6	Mastering the concept of integers and arithmetic operations	1. explain the definition of integers. 2. explain the properties of integer operations.	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
7	Mastering the concept of divisible by prime and composite numbers	 Explain the concept of divisible and its characteristics. Distinguish between prime and composite numbers. 	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%

8	Students are able to achieve half of the required course achievements	 Mastering mathematical logic concepts Mastering the concept of sets and set relations Mastering the concept of the number base of the Roman numeration system and place value Mastering the concept of square numbers and cubic numbers Mastering the concept of natural and whole numbers as well as arithmetic operations. Mastering the concept of integers and arithmetic operations Mastering the concept of integers and arithmetic operations Mastering the concept of integers and arithmetic operations Mastering the concept of divisible by prime and composite numbers 	Criteria: Maximum Score 100	Sub Summative Exam 3 X 50		0%
9	Mastering the concepts of KPK and FPB	1. Explain how to determine FPB & KPK. 2. Create story questions related to FPB and KPK.	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
10	Mastering the real number system	1. Define the meaning of real numbers2. Define the meaning of rational numbers 3. Define the meaning of irrational numbers 3. Solving rational and irrational number problems	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
11	Mastering Data concepts	1. Define the meaning of data. 2. State the types of data. 3. State how to obtain data.	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
12	Mastering the concept of Data Presentation	Can present data in the form of: 1. Table 2. Diagram3. Description	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%

13	Mastering the concept of measures of central tendency	1. Determine the mean of single data. 2. Determine the mean of group data	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
14	Mastering the concept of measures of central tendency	1. Determine the median of single data2. Determine the median of group data	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
15	Mastering the concept of measures of central tendency	1. Determine single data mode2. Specifies the Group data mode	Criteria: Activeness and mastery of material	1. Lecture 2. Question and Answer 3. Discussion 3 X 50		0%
16			Form of Assessment : Test		Online UAS implementation takes 100 minutes	0%

Evaluation Percentage Recap: Project Based Learning

No Evaluation Percentage

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.
- 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, 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.