

Universitas Negeri Surabaya Vocational Faculty, D4 Informatics Management Study Program

Document Code

SEMESTER LEARNING PLAN

Courses			CODE		Course Family		/	Credit Weight				SEM	ESTER	Compilation Date
Mathematics II			999957	40102149				T=2	P=0	ECTS=	3.18		2	July 17, 2024
AUTHORIZATION			SP Dev	SP Developer			Course Cluster Coordinator					Study Program Coordinator		
												Dodik Arwin Dermawan,		
Learning model		Case Studies												
Program	1	PLO study program that is charged to the course												
Learning	j	Program Objectives (PO)												
(PLO)		PLO-PO Matrix												
		P.O												
		PO Matrix at th	e end of ea	ch learning stage	e (Sub-P	PO)								
			P.0	P.O Week										
				1 2 3 4	5 6	7	8	9	10	11	12	13	14	15 16
Short Course Description		Use of specific integrals to find area, content, arc length, center of gravity, moment of inertia, double integrals, matrices, determinants, systems of linear equations and their applications.												
References		Main :												
		 Baisuni , MH , 1986 , Kalkulus , Jakarta : Universitas Indonesia. Purcell dan Verberg,1992,Kalkulus dan Geometri Analitis, Jakarta : Erlangga. Stroud, KA, 1989, Matematika untuk Teknik, Alih bahasa: Erwin Sucipto, Jakarta Erlangga. Verberg, Purcell, Rigdon, 2007, Kalkulus, Jakarta : Erlangga 												
		Supporters:												
Supporting lecturer Dodik Arwin Dermawan, S.ST., S.T., M.T. Ferly Isnomo Abdi, S.T., S.Pd., M.T.														
Week-	Fina eac stad	al abilities of h learning ge		Evaluation			Help Learning, Learning methods, Student Assignments, [Estimated time]					Learning materials [Assessment Weight (%)	
	(Sub-PO)		Indicator	Criteria & For	m	Offline offline	e (e)	0	nline	(online)]		
(1)		(2)	(3)	(4)		(5)		(6)				(7)	(8)	
1	Students are able to communicate their understanding of indefinite integrals		according to the rubric	Criteria: According to the Rubric	L d a a 1	_ectures discussion question and answers 100	s, ons, is	_	_		_			0%

2	Students are able to communicate their understanding of definite integrals and their application to the area of land and volume of rotating objects, arc length	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
3	Students are able to communicate their understanding of definite integrals and their application to the area of land and volume of rotating objects, arc length	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
4	Students are able to communicate their understanding of the application of definite integrals, center of gravity, moment of inertia and pressure of liquids	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
5	Students are able to communicate their understanding of the application of definite integrals, center of gravity, moment of inertia and pressure of liquids	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
6	Students are able to communicate their understanding of the concept of double integrals and their applications	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
7	Students are able to communicate their understanding of the concept of double integrals and their applications	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
8	USS (attached)	USS (attached)	Criteria: USS (attached)	USS (attached) USS (attached)		0%
9	Students are able to communicate their understanding of ordinary differential equations	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
10	Students are able to communicate their understanding of ordinary differential equations	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
11	Students are able to communicate their understanding of ordinary differential equations	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
12	Students are able to communicate their understanding of ordinary differential equations	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%

13	Students are able to communicate their understanding of matrices and determinants	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
14	Students are able to communicate their understanding of matrices and determinants	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
15	Students are able to communicate their understanding of the System of Linear Equations for Liquid Pressure	according to the rubric	Criteria: According to the Rubric	Lectures, discussions, questions and answers 100		0%
16						0%

Evaluation Percentage Recap: Case Study

No Evaluation Percentage

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.
- 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.