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## Universitas Negeri Surabaya Faculty of Engineering, Family Welfare Education Undergraduate Study Program

Document Code

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			,	SEI	MESTE	RL	_EA	RNII	NG	PLAI	V				
Courses			(	CODE		Cou Fan	ırse nily	Cred	Credit Weight			SEMES	STER	Compi Date	ilation
Food Microbiology*			8	832060	02141			T=2	P=0	ECTS=3.	.18	2		July 18	3, 2024
AUTHORIZATION		;	SP Developer				Course Cluster Coordinator				Study Program Coordinator				
Learning model		Case Studies													
Program Learning		PLO study program which is charged to the course													
Outcome	,	Program	Obje	ective	s (PO)										
(PLO)		PLO-PO Matrix													
		P.O													
		PO Matrix at the end of each learning stage (Sub-PO)													
				P.O Week						ek					
				:	1 2 3	4 5	6	7 8	9	10 11	12	2 13	14	15 1	L6
Short Course Description Study and understanding of the principles of microorganisms, metabolism of microorganisms, microorganisms, factors that influence the growth of microorganisms, microorganisms in mand drinks, microorganisms that cause food spoilage, and microorganisms that cause infection is carried out using a constructivist approach. The lesson ended by making a report and factors causing cases of food spoilage and food poisoning in group discussions.								n maǩin ction. Le	ig food earning						
Reference	ces	Main :													
		1. Supardi, I dan Sukamto. 1999. Mikrobiologi Dalam Pengolahan Pangan dan Keamanan Pangan.													
		Bandung: Alumni 2. Jay, J.M. James. 1978. Modern Food Microbiology (Second Edition) Nwe york: Van Norstrand													
		Reinhold Co. New York. USA													
		<ol> <li>Pratiwi, Sylvia T. 2008. Mikrobiologi Farmasi. Jakarta: Erlangga</li> <li>Adams, M.R dan M,O. Moss. 2008. Food Microbiology (Thirt Edition). CRC Press. Boca Raton. USA</li> </ol>													
		Supporters:													
Supporti lecturer	ing	Dra. Hj. Si	iti Sul	andjari	i, M.Si.										
Week-	eacl	bilities of ach		Evaluation								Learning materials	Assessment		
	stag			cator	Criteria & F	orm	Offlin ( offlin		nline	( online )		Refere	nces	vveigi	ht (%)

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.
- 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.
- 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.