

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

Document Code

SEMESTER LEARNING PLAN

SLWLSTER LEARNING FLAN										
Courses		CODE	Course Family	Cı	Credit Weight		SEMESTI	ER	Compilation Date	
Movement and Change		8420103053		T=	=3 F	P=0	ECTS=4.77	3		July 18, 2024
AUTHORIZATION		SP Developer		Course Cluster Coordinator			Study Program Coordinator			
							Prof. Dr. Erman, M.Pd.			
Learning model	Case Studies									
Program Learning	PLO study program that is charged to the course									
Outcomes	Program Objectives (PO)									
(PLO)	PLO-PO Matrix									
	P.O									
	PO Matrix at	t the end of each le	arning s	tage (S	ub-F	PO)				
		P.O 1 2 3 4	4 5 6	6 7		Wee 9	k 10 11 12	2 13 1	4	15 16
Short Course Description	This course discusses the study of the movement of living things in terms of physics, biology and chemistry; forms of movement, physical characteristics of movement and changes in the movement of objects due to force, growth and development of living things in phylogenetic terms, as well as chemical energy that influences the process of movement in living things in the form of theory and practice. Learning is delivered through presentations, discussions and practicums.									
References	Main :									
	 Cameron, J. R., Skofronick, J. G., and Grant, R. M. 2006. Fisika Tubuh Manusia (Judul asli: Physics of The Body). Jakarta: Sagung Seto. Erman. 2007. Dasar-dasar Biokimia Olahraga. Surabaya: Unesa University Press. Giancoli, Douglas C. 2005. Physics: Principles with Applications. Sixth Edition. New Jersey: Prentice Hall. Guyton, A. 2002. Texbook of Medical Physiology. Seven Edition. Toronto: W.B. Saunders. Hamill, J. & Knutzen, K. M. 2003. Biomechanical Basis of Human Movement. Second Edition. Philadelphia: Lippincott Williams & Wilkins. McGinnis, Peter M. 2005. Biomechanics of Sport and Exercise. Second Edition. New York: Human Kinetics. Postlethwait, John H. and Hopson, Janet L. 2006. Modern Biology. London: A Harcourt. Stephens, Rita. 2006. Biology: A Molecular Approach, 9th Edition. California: Glencoe. 									
Supporting lecturer										

Week-	Final abilities of each learning stage (Sub-PO)	Evaluation Indicator Criteria & Form		Offline (offline	Help Learning, earning methods, dent Assignments, Estimated time] Online (online)	Learning materials [References	Assessment Weight (%)
	(2)	(2))			(0)
(1)	(2)	(3)	(4)	(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** 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.