

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

Document Code

SEMESTER LEARNING PLAN

Courses		CODE			Credit Weight			:				npilati	ion		
Genetic Science			84205	04107	Family		т=4 р-	0	FCTS=6	36	4		Date July	-	024
AUTHORIZATION				8420504107 SP Developer		T=4 P=0 ECTS=6.36 Course Cluster			:	Study Program				524	
							Coordinator				Dr. Rinie Pratiwi Puspitawati, M.Si.				
Learning model		Case Stu	dies	<u> </u> ;											
Program	1	PLO study program that is charged to the course													
Learning Outcome		Program	Objective	jectives (PO)											
(PLO)		PLO-PO	Matrix												
P.0															
PO Matrix at the end of each learning stage (Sub-PO)															
										,					
			P.0	P.O Week								1			
				1 2 3 4	4 5 6	6 7	89	1	LO 11	12	13	14	15	16	
Short Course Description		Study the principles of segregation and independent grouping, dominance, recessiveness, crossing over, deviation from Mendel's Law, probability theory, sex differences, sex determination, genetic material, the concept of genes, DNA replication, genetic code, gene expression, mutation, crossing over, chromosome maps, biochemical genetics, population genetics, and genetic engineering. This course is presented through discovery-based learning, assignments, and practice.													
References		Main :													
		 Gardner, E.J., Simmons, M.J., Snustad, P. 1991. Principles of Genetics. New York: John Willey & Sons. Klug, W.S., Cummings, M.R., Spencer, C.A., Palladino, M.A. 2010. Essentials of Genetics. San Fransisco: Pearson Benjamin Cummings Sarin, C. 2002. Genetics. New Delhi: Tata McGraw-Hill Publishing Company Limited. Seregreg, Isnawati, dan Susantini, E. 1999. Penuntun Praktikum Genetika. Surabaya: University Press. 													
		Supporters:													
			•												
Supporti lecturer	ing	Dr. Isnawa Guntur Tri	Prof. Dr. Endang Susantini, M.Pd. Dr. Isnawati, M.Si. Guntur Trimulyono, S.Si., M.Sc. Lisa Lisdiana, S.Si., M.Si., Ph.D.												
		ities of	E	Evaluation		Le Stuc	Help Learning, Learning methods, Student Assignments, [Estimated time]				Learning materials	Assessment			
Week-	each learning stage (Sub-PO)		Indicator	Criteria & Fe	-	line (<i>line</i>)	Onlin	e (online)		[References]		Weight (%)		

(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

- 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, 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.

- 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%.
 TM=Face to face, PT=Structured assignments, BM=Independent study.