

Undergraduate Programme in Biology

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MODULE HANDBOOK

Module Name	Population Genetic	
Module level, if applicable	Bachelor	
Code, if applicable	BIO414056	
Subtitle, if applicable	-	
Courses, if applicable	Population Genetic	
Semester(s) in which the module is taught	6 th (sixth)	
Person responsible for the module	Dian Aruni Kumalawati, M.Sc	
Lecturer(s)	Dian Aruni Kumalawati, M.Sc	
Language	Bahasa Indonesia	
Relation to curriculum	Elective course in the third year (6 th semester) Bachelor Degree	
Type of teaching, contact hours	150 minutes lectures, 180 minutes structured activities, 180 minutes individual study.	
Workload	Total workload is 136 hours per semester, which consists of 150 minutes lectures per week for 16 weeks, 180 minutes structured activities per week, 180 minutes individual study per week (in total is 16 weeks per semester, including mid exam and final exam)	
Credit points	3 credits (4,5 ECTS)	
Requirements according to the examination regulations	Students must meet a minimum attendance of 75% of the total meetings to be able to take the final exam	
Recommended prerequisites	No prerequisites stated on	
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. Students are able to apply the basic concepts of population genetics CO 2. Students are able to explain and analyze the concept of Hardy-Weinberg Equilibrium and its application CO 3. Students are able to explain and analyze allele frequency, genotype frequency, and the factors that play role in influencing them CO4. Students are able to analyze and explain the genetic variation CO5. Students are able to explain and operate population genetic analysis tools	
Content	a. Introduction to Population Genetic. b. Hardy-Weinberg Equilibrium. c. Allele and Genotype Frequency. d. The factors that play role in influencing Allele and Genotype Frequency e. Genetic Variation f. Introduction to population genetic's analysis tools.	
Study and examination requirements and forms of examination	The final mark will be weighted as follows:	
	NO	Assessment methods (components, activities)
	1	Final Examination
		Weight (percentage)
		35%

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UIN SUNAN KALIJAGA YOGYAKARTA

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