UNIVERSITAS NEGERI YOGYAKARTA
FACULTY OF MATHEMATICS AND SCIENCE
DEPARTMENT OF BIOLOGY EDUCATION
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Bachelor of Science in Biology	**MODULE HANDBOOK**

Module name:	Animal Ecology
Module level, if applicable:	Undergraduate
Code:	BIM6279
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	Odd
Module coordinator:	Dr. Tien Aminatun
Lecturer(s):	Dr. Ir. Suhartini, Dr. Tien Aminatun
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective Course
Teaching format / class hours per week during the semester:	100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week
Workload:	Total workload is 91 hours per semester which consists of 100 minuteslectures, 120 minutes structured activities, and 120 minutes individual study per weekfor 16 weeks.
Credit points:	2 SKS (3 ECTS)
Prerequisites course(s):	Ecology
Program Learning Outcome(s)	4. Comprehensively mastering Biology (core biology) to solve problems in the field of Biology (problem-solving) and to underlie the concepts of related sciences 6. Being adaptive, creative, innovative in applying the concepts of Biology and other related fields 9. Being able to work and create jobs/being an entrepreneur in the field of Biology 11. Possessing scientific skills to support the ability to speak in local, national, and international forums
Targeted learning outcomes:	After taking this course, the students have ability to: CO1. Describe the existence of animals in various levels of organizational structure of life in every ecosystem CO2. Analyze the various associations and interactions of animals with other organisms which can determine the stability of ecosystem through cybernetic mechanism. CO3. Analyze the population size and population dynamic of animals as component of ecosystem that become a variant of ecosystem stability as the realization of their position and function in the ecosystem.

<table>
<tr><td></td><td>CO4. Work independently or in group in class discussion activity</td></tr>
<tr><td>Content:</td><td>The course emphasizes the understanding of animal existence in an ecosystem; and the strategy of maintaining the existence at various levels of the organizational structure of life through the mechanism of interaction with the internal environment of the population and its external environment. Various associations and interactions of animals with other organisms determine the stability of ecosystem through cybernetic mechanism. The population size and population dynamic of ecosystem become a variant of ecosystem stability as the realization of their position and function in the ecosystem.</td></tr>
<tr><td>Study / exam achievements:</td><td>The final mark will be weight as follow:

<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>CO1 to CO4</td><td>Observed attitudes , knolwedge, and skills</td><td>Survey, test, rubrics and manuals</td><td>100%</td></tr>
<tr><td colspan="4">Total</td><td>100%</td></tr>
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</td></tr>
<tr><td>Forms of media:</td><td>Real objects, model, multimedia</td></tr>
<tr><td>References:</td><td>
<ol type="A">
Idriyanto. 2006. Forest Ecology. PT Bumi Aksara. Jakarta
Odum, Eugene P. 1996. Fundamentals of Ecology; Third Edition. Yogyakarta. Gadjah Mada University Press, Samingan Translator, Tjahjono.
Soegianto, A. 1994. Quantitative Ecology. National Business Publisher. Surabaya.
Verhoef, H.A and P.J. Morin.2010. Community Ecology, Process, Models, and Applications. Oxford University Press
Abrahamson, W.G. 1989. Plant-Animal Interactions. McGraw-Hill Book Company

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PLO and CO mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11
CO 1				√		√			√		
CO 2				√		√			√		
CO 3				√		√			√		
CO 4											√