Module designation	Ecology
Semester(s) in which the module is taught	Odd/3rd
Person responsible for the module	Prof. Dr. Tien Aminatun, Dr. Suhartini
Language	Bahasa Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lecture, project, seminar, exam
Workload (incl. contact hours, self-study hours)	Total workload is 91 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points	2 SKS (3.2 ECTS)
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	PLO-4 PLO-6 PLO-8 PLO-11
Content	The course emphasizes on the understanding of organism existence as a bio system in maintaining its existence. The strategy of maintaining the existence of a bio system 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. The phenomenon of the bio system as an expression of the unique integration of biological structure level of living things in supporting life function. Survivalship is supported by the balance of input and energy availability through the food chain obtained in the food web of life. The food web of life is built on the unique structure and function of the ecosystem. The uniqueness of the abiotic and biotic components of structure that build function of the ecosystem. The ecosystem functions are based on the biodiversity, food chain, food web, energy flow, and biogeochemical cycle. The uniqueness of every organism in trophic levels ranging from producer, consumer and decomposer that builds trophic structure and ecological pyramid. Various associations and interactions of organisms determine the stability of the ecosystem through cybernetic mechanisms. Ecosystem classification is categorized by its energy input characteristic. The population size and population dynamic of the ecosystem become a variant of ecosystem stability as the realization of their position and function in the ecosystem.
Examination forms	Presence, task, quiz, mid-semester exam, final semester exam, case study, team based project.

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<td>Study and examination requirements</td>
<td>The final mark will be weight as follow:
<table>
<tr><th>NO</th><th>Assessment Techniques</th><th>Percentage Weight Assessment (%)</th><th>Information</th></tr>
<tr><td>1</td><td>Cognitive</td><td>50</td><td>Maximum assessment weight accumulation 50%</td></tr>
<tr><td rowspan="5"></td><td>Presence</td><td>5</td><td></td></tr>
<tr><td>Task</td><td>10</td><td></td></tr>
<tr><td>Quiz</td><td>5</td><td></td></tr>
<tr><td>Mid-semester exams</td><td>10</td><td></td></tr>
<tr><td>Final Semester Exam</td><td>20</td><td></td></tr>
<tr><td>2</td><td>Participatory</td><td>50</td><td>Maximum assessment weight accumulation 50%</td></tr>
<tr><td rowspan="3"></td><td>Case study</td><td>20</td><td></td></tr>
<tr><td>Team Based Project</td><td>30</td><td></td></tr>
<tr><td>Total</td><td>100</td><td></td></tr>
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<td>Reading list</td>
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A. Odum, E.P. 1993. Dasar-dasar Ekologi, Edisi Ketiga (terjemahan Tjahyono Samingan). Yogyakarta: Gadjah Mada University Press.
B. Jennifer Heath, 2019. Principles of Ecology, Salem Press, Incorporated.
C. Miller G.T., & Spoolman S.E. 2014. Essentials of Ecology 7th ed. Brooks/Cole, Cengage Learning.
D. Juniper, T. 2019. The Ecology Book. New York: DK Publishing.
E. Smith T., & Smith R.L. 2015. Elements of Ecology 9th ed. Pearson.
F. Riisgård H.U. 2017. General Ecology: Outline of contemporary ecology for university students 1st ed.

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