

Module Handbook

Modul Name	Marine Biology
Modul Level	Bachelor
Abbreviation, if applicable:	BIU 303
Sub--heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester	Even
Module Coordinator	Agoes Soegianto
Lectures	Agoes Soegianto
Language	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course / Elective Studies
Teaching format/ class hours per week during semester	300 minutes/ week
Workload per semester	100 min lecture + 100 min structural assignment + 100 min self-assignment x 13 weeks; total 3900 min = 65 hours 65/25 = 2.6 ECTS
Credit point	2
Requirements	-
Learning goals/competencies	<p>General Competence (Knowledge)</p> <p>Students are able to explain the relation of the physio-chemical environment factors with spreading and zoning patterns of marine organisms, comparing the adaptive value of various forms of marine life organisms, to evaluate the relevance and regularity of systems of marine life as well as the prospects and threats of various marine resources, detailing specific requirements in selection of commodities for the purpose of cultivating marine organism, and express opinions about the prospect of marine biotechnology development appropriately.</p> <p>Specific Competence</p> <ol style="list-style-type: none"> 1. Students are able to explain the geographical and topographical condition 2. Students are able to explain the condition of seabed structure 3. Students are able to explain the physio-chemical factors of sea: salinity and ion in the sea 4. Students are able to explain the physio-chemical factors of sea: lighting, color, temperature, and gas in the water 5. Students are able to explain the circulation of sea level 6. Students are able to explain the circulation of seabed wave 7. Students are able to explain the planktons and productivity in the sea 8. Students are able to explain the habitat of beach: rocky beach 9. Students are able to explain the habitat of beach: sandy beach 10. Students are able to explain the habitat of beach: muddy beach 11. Students are able to explain the habitat of the sea 12. Students are able to explain the impact of human behavior to the sea ecosystem

Content	Introduction to Marine Biology; Sea environment; forms of life at sea; marine plants; marine animals; marine and coastal ecosystems; marine resources; aquaculture and marine biotechnology.
Soft skill Attribute	Discipline and Argumentation
Study/ exam achievements	<p>Students are considered to be competent and pass if at least get 40% of maximum. Final score (NA) is calculated as follow: Paper project (20%), mid exam (30%), final exam (40%), and soft skill (10%)</p> <p>Final index is defined as follow:</p> <p>A : 75 - 100 AB : 70 - 74.99 B : 65 - 69.99 BC : 60 - 64.99 C : 55 - 59.99 D : 40 - 54.99 E : 0 - 39.99</p>
Form of media	LCD
Learning Method	Class and discussion
Literature	<ol style="list-style-type: none"> a. Romimohtarto, K & Juwana, S. 2001. <i>Biologi Laut : Ilmu Pengetahuan tentang Biota Laut</i>. Djambatan, Jakarta. b. Nybakken, J.W. 1992. <i>Biologi Laut Suatu Pendekatan Ekologi</i>. Penerbit PT Gramedia Pustaka Utama, Jakarta. c. Sumich, J.L. 1992. <i>An Introduction to the Biology of Marine Life</i>. Wm. C. brown Publishers. Dubuque. d. Norse, E.A. 1993. <i>Global Marine Biological Diversity: strategy for building conservation into decision making</i>. Island Press. Washington, D.C.
Note	-