Module Handbook

Modul Name	Evolution
Modul Level	Bachelor
Abbreviation, If applicable:	BIU 305
Sub---heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester	Even (6th Semester)
Module Coordinator	Dwi Kusuma Wahyuni
Lectures	Dwi Kusuma Wahyuni Sucipto Hariyanto
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	Minimum 90 credits
Learning goals/competencies	**General Competence (Knowledge)** Students are able to demonstrate the relationship between the concepts of evolution, impact of science and technology on the evolution of living things correctly. **Specific Competence** 1. Students are able to understand the scope of evolution and its connection to other sciences 2. Explaining the history of the development of organism evolution theory 3. Explaining the sign of evolution 4. Explaining the adaptation of organism 5. Explaining the laws that related to the development of organism evolution 6. Explaining the concept of organism evolution, based on biological science and multidiscipline 7. Explaining the theory of evolution based on the interaction aspect between organism and its environment 8. Explaining the development of molecular and plant evolution 9. Explaining the development of invertebrates' and vertebrates' evolution 10. Explaining the development of primate evolution 11. Explaining the concept of cultural evolution and its connection with biological evolution and consciousness as human evolution characteristic 12. Explaining the role of science and technology development as well as the organism evolution 13. Students are able to show the connection between fossil record and species evolution organism
Content	Introduction, history of the theory of evolution of living things. Speciation concepts, the origin of species, microevolution, macroevolution, evidence, extinction, adaptation, evolution of live,

	the origin of eukaryotic, tracing phylogenic, plant evolution, animal evolution, human evolution.
Soft skill Attribute	Discipline and Argumentation
Study/ exam achievements	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%) + soft skill (10%) Final index is defined as follow: 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
Form of media	LCD
Learning Method	Class and discussion
Literature	a. Ganong, W.F. 2001. Review of Medical Physiology. 18 th. ed. Prentice Hall Inc. b. Schmidt Nielsen, Knut. 1991. Animal Physiology: Adaptation and Environment. 4th. Ed Cambridge University Press. c. Albert, Bruce. et al. 1994. Molecular Biology of The Cell. 3rd. ed. Garland Publish. Co. d. Van Tienhoven, Ari.1981. Reproductive Physiology of Vertebrates.
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