Module Descriptions

Module Designation	Evolution *Evolusi*
Course Code	4620102064
Semester/Term	4th semester
Person responsible for the module	Muji Sri Prastiwi, S.Pd., M.Pd Dwi Anggorowati Rahayu, S.Si., M.Si Dra. Winarsih, M.Kes Sisca Desi Prastyaningtias, S.Si., M.Si. Ahmad Fudhaili, S.Si., M.Sc., Ph.D. Elma Sakinatus Sajidah, S.Si., M.Si., Ph.D. Mochammad Ichsan, S.Si., M.Pd., M.Eng.
Language	Bahasa Indonesia (Indonesian language)
Relation to curriculum	Compulsory course
Teaching methods	Lecture
Workload	Contact hours: 2 x 50 minutes lectures, 2 x 60 minutes structured activity, and 2 x 60 minutes individual activity per week, 14 weeks per semester 79.33 total hours per semester ~ 3.18 ECTS**
Credit Point	2 CUs
Required and recommended prerequisites for joining the module	Animal Systematics, Plants Systematics, Cell Biology, Structure and Development, Genetics
Module Objectives/intended learning outcomes	After taking this course, students will be: 1. Able to demonstrate the basic knowledge related to the reconstruction process in palaeontology in order to explain the evolutionary process, human evolution with various theories that explain it, evolution on a geological time scale and the origin of living things with various theories that explain it, Lamarck and Darwin's theory of evolution, good evidence directly or indirectly showing evolutionary phenomena in nature, as well as evolutionary mechanisms to understand phenomena that exist in nature in order to understand current

	phenomena and scientific issues and to apply them in solving evolutionary problems in everyday life (Knowledge) 2. Able to design and conduct experiments in the field of evolutionary studies, manage, analyse, interpret, document, and store in an electronic portfolio (Special Competence) 3. Students are able to apply logical, critical, and systematic thinking in studying the theory of evolution as a scientific theory to understand the diversity of living things (General Competence) 4. Able to work independently, be responsible, both as individuals and in groups, and able to work cooperatively (Specific Competence)
Content	This subject discusses the phenomenon of evolution that occurs in nature with various conflicting theories surrounding it, the reconstruction process in palaeontology, human evolution with various theories that explain it, evolution in geological time scales and the origin of living things with various theories that explain it, Lamarck and Darwin's Theory of Evolution direct and indirect evidence showing evolutionary phenomena in nature, as well as evolutionary mechanisms for understanding phenomena that exist in nature. Lecture activities are carried out in a student-centred approach with discussions, observations, project assignments, and presentations. Students develop the character of faith, smart, independent, honest, caring, responsible, and able to work together.
Examination forms	Written exam
Study and examination requirements and forms of examination	**Study Requirement** Attendance: students must attend at least 75% of the lectures to be eligible for the final examination. **Study examination** The final grade (*NA*) is calculated based on the following ratio:

Assessment Components	Percentage of contribution
Participation	20%

	<table><tr><td>Assignment</td><td>30%</td></tr><tr><td>Mid-semester test</td><td>20%</td></tr><tr><td>Final semester test</td><td>30%</td></tr></table> Grade conversion of 0-100 scale into 0-4 scale is set as below: <table><tr><th>Letter</th><th>Number</th><th>Grade Interval</th></tr><tr><td>A</td><td>4,00</td><td>85 ≤ A ≤ 100</td></tr><tr><td>A-</td><td>3,75</td><td>80 ≤ A- < 85</td></tr><tr><td>B+</td><td>3,50</td><td>75 ≤ B+ < 80</td></tr><tr><td>B</td><td>3,00</td><td>70 ≤ B < 75</td></tr><tr><td>B-</td><td>2,75</td><td>65 ≤ B- < 70</td></tr><tr><td>C+</td><td>2,50</td><td>60 ≤ C+ < 65</td></tr><tr><td>C</td><td>2,00</td><td>55 ≤ C < 60</td></tr><tr><td>D</td><td>1,00</td><td>40 ≤ D < 55</td></tr><tr><td>E</td><td>0,00</td><td>0 ≤ E < 40</td></tr></table>
Reading List	1. Kampourakis, Kostas. 2014. Understanding Evolution. USA: Cambridge University Press. 2. Thomson, R. Paul and Denis Walsh. (2014). Evolutionary Biology: Conceptual, Ethical, and Religious Issues. USA: Cambridge University Press. 3. Darwin, Charles. (2015). The Origin Of Species (Teori Evolusi Manusia). Jakarta: Indo Literasi Grup. 4. Mayr, Ernst. (2019). Evolusi Dari Teori ke Fakta. Jakarta: Kepustakaan Populer Gramedia. 5. Munif, Said Hasan, et al. (2014). Pengantar Biologi Evolusi. Jakarta: Erlangga. 6. Waluyo, Lud. (2010). Miskonsepsi Dan Kontroversi Evolusi Serta Implikasinya. Yogyakarta: Pustaka Pelajar. 7. Wijayanti, Daru. (2018). Ensiklopedia Mini Evolusi. Jakarta: Indo Publika.