

Module Descriptions

Module designation	General Biology <i>Biologi Umum</i>
Module level	Bachelor degree/Undergraduate Program
Course Code	8420503056
Semester/Term	1 st semester/year 1
Person responsible for the module	Prof. Dr. Yuliani, M.Si Prof. Dr. Fida Rachmadiarti, M.Kes. Mochammad Ichsan, S.Si., M.Pd., M.Eng. Fitriari Izzatunnisa Muhaimin, B.Sc., M.Sc. Farah Aisyah Nafidiastri, S.Si., M.Si. Sari Fitriyaningsih, S.Pd., M.Pd., M.Sc. Dr. Wirdatun Nafisah, S.Si., M.Si. Ahmad Fudhaili, S.Si., M.Sc., Ph.D. Dr. Nur Kuswanti, M.Sc.St. Dr. Widowati Budijastuti, M.Si. Elma Sakinatus Sajidah, S.Si., M.Si., Ph.D. Prof. Dr. Ir. Dyah Hariani, M.Si Firas Khaleyla, S.Si., M.Si. Dwi Setyo Pratiwi, S.Pd., M.Ed
Language	Bahasa Indonesia (Indonesian language)
Relation to curriculum	Compulsory course
Teaching methods	Lecture, lab works
Workload	Contact hours: 2 x50 minutes lectures, 3 x50 minutes laboratory works Private study: 2 x60 minutes structured activity, 2 x60 minutes individual activity, Total 135 hours per semester ~ 4.77 ECTS**
Credit Point	3 CU
Required and recommended prerequisites for joining the module	-

Module Objectives/intended learning outcomes	1. Mastering basic concepts in biology, including Biology as knowledge, cell structure and function, cell division, metabolism including transport, photosynthesis and respiration, genetics, biodiversity, evolution, structure and function of plant and animal organ and tissue, ecology, microbial growth and development, biotechnology, and training to solve issues using scientific method (knowledge) 2. Able to apply basic knowledge and skill in applying basic Biology concepts in solving issues on natural resource and environment in laboratory works (knowledge) 3. Able to apply transferable skill in Biology to develop entrepreneurship (eco-innovation, eco-opportunity, eco-commitment) (Special competences) 4. Able to work and be responsible both independently or in group in performing tasks related to Basic Biology (attitude)										
Content	Basic concepts of biology as a science, cell structure and function, metabolism including transport, photosynthesis and respiration, genetics, diversity of living things and nomenclature, origin of life, evolution, structure and function of plant and animal organ tissues, ecology, organism behavior and biotechnology, and practice solving problems through scientific methods.										
Examination forms	Written exam										
Study and examination requirements	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: <table border="1"> <thead> <tr> <th>Assessment Components</th><th>Percentage of contribution</th></tr> </thead> <tbody> <tr> <td>Participation</td><td>20%</td></tr> <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> </tbody> </table>	Assessment Components	Percentage of contribution	Participation	20%	Assignment	30%	Mid-semester test	20%	Final semester test	30%
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	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>	Letter	Number	Grade Interval	A	4,00	85 ≤ A ≤ 100	A-	3,75	80 ≤ A- < 85	B+	3,50	75 ≤ B+ < 80	B	3,00	70 ≤ B < 75	B-	2,75	65 ≤ B- < 70	C+	2,50	60 ≤ C+ < 65	C	2,00	55 ≤ C < 60	D	1,00	40 ≤ D < 55	E	0,00	0 ≤ E < 40
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Reading List	● Campbell, N.A., Reece, J., Urry, L.A., Cain, M.L., Wasserman, S.A., Minorsky, P.V. 2020. Campbell Biology 10 ed. Pearson ● Kimball, J.W. 1993. Biologi Jilid I, II, III . Edisi Kelima. Cetakan Kedua. Jakarta: Penerbit Erlangga. ● Rachmadiarti, F.,Yuliani, Widowati B., Rinie P, Mahanani T.A,Dyah H.,Herlina F.2022 Biologi Umum . Surabaya: UNESA Press. ● Luria. 1981. A View of Life . California: Benyamin Cumming. ● Reece, J. B., Urry, L. A., Cain, M. L., Wasserman, S. A., Minorsky, P. V., & Jackson, R. B. 2014. Campbell biology (Vol. 9). Boston: Pearson. ● Biggs,A.Hagins W.C.Holiday,W.G.2008.Biology.New York:McGraw-Hill7.Morris, J., Hartl, D., Knoll, A., Lue, R., Michael, M. 2019. Biology: How Life Works Third edition. Freeman.8.Clark, M.A., Choi, J., Douglas, M. 2018. Biology 2e. Openstax, RICE University.																														