Module Description
Basic Biology

Module designation	Basic Biology
Module code	23H04110103
Semester(s) in which the module is taught	1st semester
Person responsible for the module (lecturers)	❖ Dr. Nur Haedar, S.Si., M.Si. ❖ Muhammad Iqram, S.Si., M.Sc.
Language	Indonesian language
Relation to curriculum	Compulsory
Teaching methods	Lecture, laboratory practice
Workload	Total workload (estimated): ❖ 27 hours of lecture ❖ 32 hours of exercise ❖ 32 hours of independent study ❖ 45 hours of laboratory practice
Credit points	3 credit points = 4.86 ECTS
Required and recommended prerequisites for joining the module	None
Module objectives/ Intended Learning Outcomes (ILO)	ILO 2. Demonstrates a comprehensive understanding of theoretical concepts and technological literacy related to food science and technology principles and food law to support professional expertise in food science and technology (K)
	CLO 1. Explanation of basic concepts in organisms and the interaction of organisms with the environment CLO 2. Implementation of the concepts of metabolism, reproduction, organism coordination, and the application of biotechnology in the development of science in their respective fields
Content	Concept of biology: basic unit of life, virus, cell, metabolism (catabolism and anabolism), cell division and inheritance, plant reproduction system, animal reproduction system, coordination system (plant and animal), homeostasis, ecology, evolution, classification of living beings, basic biotechnology
Examination form	Writing (essay)

<table>
<tr><td>Study and examination requirements</td><td>Examination requirements: Attendance above 80%

❖ Individual assignment: 10%
❖ Presentation: 50%
❖ Laboratory work: 20%
❖ Examination: 20%

Grading:
<table>
<tr><th>Numerical range</th><th>Letter grade</th><th>Conversion value</th></tr>
<tr><td>85 - 100</td><td>A</td><td>4.00</td></tr>
<tr><td>80 - < 85</td><td>A-</td><td>3.75</td></tr>
<tr><td>75 - < 80</td><td>B+</td><td>3.50</td></tr>
<tr><td>70 - < 75</td><td>B</td><td>3.00</td></tr>
<tr><td>65 - < 70</td><td>B-</td><td>2.75</td></tr>
<tr><td>60 - < 65</td><td>C+</td><td>2.50</td></tr>
<tr><td>50 - < 60</td><td>C</td><td>2.00</td></tr>
<tr><td>40 - < 50</td><td>D</td><td>1.00</td></tr>
<tr><td>< 40</td><td>E</td><td>0.00</td></tr>
</table>
If student(s) receives(s) a score below 40, student(s) must retake the course</td></tr>
<tr><td>Reading list</td><td>1. Barrett, J.M. 1986. BIOLOGY. Prentice-Hall, Englewood Cliffs, New Jersey
2. Campbell, N.A., Reece, J.B., Urry, L.A., Cain, M.L., Wasserman, S.A., Minorsky, P.V., Jackson, R.B. 2010., Biology. Edisi kedelapan Jilid 1. Erlangga, Jakarta.
3. Campbell, N.A., Reece, J.B., Urry, L.A., Cain, M.L., Wasserman, S.A., Minorsky, P.V., Jackson,
4. R.B. 2010., Biology. Edisi kedelapan Jilid 2. Erlangga, Jakarta.
5. Campbell, N.A., Reece, J.B., Urry, L.A., Cain, M.L., Wasserman, S.A., Minorsky, P.V., Jackson
6. 6. R.B. 2010., Biology. Edisi kedelapan Jilid 3. Erlangga, Jakarta.</td></tr>
<tr><td>Date of last amendment</td><td>4 August 2025</td></tr>
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