

## Module Handbook

Module Name:	<b>General Biology II</b>
Module Level:	Bachelor
Abbreviation, if applicable:	BID 105
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	2 <sup>nd</sup> / First Year
Module coordinator(s):	Tri Nurhariyati, S.Si, M.Kes
Lecturer(s):	Tri Nurhariyati, S.Si, M.Kes. Dr. Alfiah Hayati, M.Kes
Language:	Bahasa Indonesia
Classification within the curriculum	Compulsory Course / <del>Elective Studies</del>
Teaching format / class hours per week during semester:	2 hours lecturers (50 min per hours)
Workload:	2 hours lectures, 2 hours structured activities , 2 hours individual activities, 13 weeks per semester, total 78 hours per semester ~ 2.6 ECTS *
Credit Points:	2
Requirements:	General Biology I (BID 103)
Learning goals/competencies:	<p><b>General competence (knowledge)</b> After finishing this lecture, students will be able to explain about application of biology principles in organisms appropriately</p> <p><b>Specific competence</b> After following this lecture, students will be able to</p> <ol style="list-style-type: none"> <li>1. Students are able to explain about application of biology principles</li> <li>2. Students are able to explain about catabolism related to cellular respiration</li> <li>3. Students are able to Find anabolism related to photosynthesis process</li> <li>4. Students are able to explain about gene and protein synthesis</li> <li>5. Students are able explain about natural resources conservation and its influence factors</li> <li>6. Students are able to explain and give examples morphology and anatomy of plant and animal</li> <li>7. Students are able to explain and compare digestion physiology of animal and plant</li> <li>8. Students are able explain and compare transportation physiology of animal and plant</li> <li>9. Students are able explain and compare immunity physiology of animal and plant</li> <li>10. Students are able explain and compare hormonal</li> </ol>

	<p>physiology of animal and plant</p> <p>11. Students are able explain and compare excretion physiology of animal and plant</p> <p>12. Students are able explain about the roles of natural resources conservation and its influence factors</p> <p>13. Students are able explain about conventional and modern biotechnology</p>
Content:	<p>Introduction, Cell metabolism I, Cell metabolism I, From gene to protein, Natural resources conservation, Morphology and anatomy of plant and animal, Digestion physiology of animal and plant, Transportation physiology of animal and plant, Immunity physiology of animal and plant, Hormonal physiology of animal and plant, Excretion physiology of animal and plant, Natural resources conservation, Conventional and modern biotechnology</p>
Soft skill	<p>Team work and communication skill</p>
Study/exam achievements:	<p>Students are considered to be competent and pass if at least get 55</p> <p>The final value is calculated as follows: 35% middle examination (UTS) , 35% Final examination (UAS), 20% assignment , 10% <i>Softskill</i></p> <p><b>Final index is defined as follows</b></p> <p>A : 100&gt;NA≥75 AB: 74,9&gt; NA≥70 B : 69,9&gt; NA≥65 BC : 64,9&gt; NA≥60 C : 59,9&gt;NA≥55 D : 54,9&gt;NA≥40 E : 39,9≥NA</p>
Learning Methods	<ul style="list-style-type: none"> <li>- Lecture</li> <li>- Discussion</li> <li>- Assignment</li> </ul>
Forms of Media:	<p>LCD, laptop, White board</p>
Literature:	<ol style="list-style-type: none"> <li>a. Audesirk, T., Audersirk, G., and B.E. Byers, 2002. <i>Biology: Life on the Earth 6<sup>th</sup></i>Ed. Prentice Hall do Brasil, Ltda, Rio de Janeiro.</li> <li>b. Chambell, 2003, <i>Biology</i>, Mc Graw Hill</li> <li>c. Allendorf, FW. Dan Luikart, G. 2007. <i>Conservation and The Genetics of Populations</i>. Blackwell Publishing</li> <li>d. Campbell NE, Reece JB, Urry LA, Minorsky PV, Jackson RB. 2008. <i>Biology</i>, 8th edition. Pearson Education, Inc., publishing as Pearson Benjamin Cummings, San Francisco</li> </ol>
Notes:	<p>*Total ECTS = {(total hours workload x 50 min ) / 60 min } / 25 hours</p> <p><b>Each ECTS is equals with 25 hours</b></p>