

Module Handbook

Module Name:	General Biology II
Module Level:	Bachelor
Abbreviation, if applicable:	BID105
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester/term:	Even
Module coordinator(s):	Tri Nurhariyati, S.Si, M.Kes.
Lecturer(s):	Tri Nurhariyati, S.Si, M.Kes. Dr. Alfiah Hayati, M.Kes
Language:	Indonesian language
Classification within the curriculum	Compulsory Course / Elective Studies
Teaching format / class hours per week during semester:	300 minutes/ week
Workload:	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	-
Learning goals/competencies	<p>General competence (knowledge) After finishing this lecture, students will be able to explain about application of biology principles in organisms appropriately</p> <p>Specific competence After following this lecture, students will be able to</p> <ol style="list-style-type: none"> 1. Students are able to explain about application of biology principles 2. Students are able to explain about catabolism related to cellular respiration 3. Students are able to Find anabolism related to photosynthesis process 4. Students are able to explain about gene and protein synthesis 5. Students are able explain about natural resources conservation and its influence factors 6. Students are able to explain and give examples morphology and anatomy of plant and animal 7. Students are able to explain and compare digestion physiology of animal and plant 8. Students are able explain and compare transportation physiology of animal and plant 9. Students are able explain and compare immunity physiology of animal and plant 10. Students are able explain and compare hormonal physiology of animal and plant

	<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	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
Soft skill Attribute	Dicipline and argumentation
Study/ exam achievements	<p>Students are considered to be competent and pass if at least get 40% of maximum. Final score (NA) is calculated as follow: 20% (structural assignment + soft skill) + 40% mid exam + 40% final exam</p> <p>Final index is defined as follow:</p> <p>A : 75 - 100</p> <p>AB : 70 - 74.99</p> <p>B : 65 - 69.99</p> <p>BC : 60 - 64.99</p> <p>C : 55 - 59.99</p> <p>D : 40 - 54.99</p> <p>E : 0 - 39.99</p>
Form of media	Class, and discussion
Learning Method	LCD
Literature	<p>a. Audesirk, T., Audersirk, G., and B.E. Byers, 2002. <i>Biology: Life on the Earth 6th</i> Ed. Prentice Hall do Brasil, Ltda, Rio de Jeneiro.</p> <p>b. Chambell, 2003, Biology, Mc Graw Hill</p> <p>c. Allendorf, FW. Dan Luikart, G. 2007. Conservation and The Genetics of Populations. Blackwell Publishing</p> <p>d. Campbell NE, Reece JB, Urry LA, Minorsky PV, Jackson RB. 2008. Biology, 8th edition. Pearson Education, Inc., publishing as Pearson Benjamin Cummings, San Francisco</p>
Notes	this course is the prerequisite subjects to take more upper level courses on next semester