UNIVERSITAS NEGERI YOGYAKARTA

BIOLOGY EDUCATION

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Bachelor of Education in Biology education **MODULE HANDBOOK**

Module name:	Biology of Arthropoda
Module level,if applicable:	Undergraduate
Code:	BIP6237
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	odd
Module coordinator:	Triatmanto, M.Si
Lecturer(s):	
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory subject
Teaching format / class hours per week during the semester:	100 minutes lectures, 120 minutes structured activities, and 120 minutes individual studyper week
Workload:	Total workload is 91 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Creditpoints:	2 SKS (3 ECTS)
Prerequisites course(s):	--
Perogram Learning Outcomes:	4. Comprehensively mastering Biology (core biology) to solve problems in the field of Biology (problem-solving) and to underlie the concepts of related sciences
Course Outcomes	After taking this course, the students have ability to: CO1. Identify the themes and objetsin Biology Arthropoda CO2. Understand and apllied of BSCS scheme for Biology Arthropoda CO3. Analysis of Arthropoda evolution base on the recent theory CO4. Analysis of Phylogenetics of Arthropoda base on Evolution theorys CO5. Classify the Trilobitomorpha based on characteristics, CO6. Classify the Cehelicerata based on characteristics,. CO7. Classify the Myriapoda based on characteristics,

<table>
<tr><td></td><td>CO8. Classify the Crustacea based on characteristics,
CO9. Classify the Hexapoda based on the characteristics
CO10. Analysis the role of Attropods for human life
CO11. Communicate the result of individual or group project in Biology Arthropoda</td></tr>
<tr><td>Content:</td><td>This course mainly develops scientific skills so this course the emphasis is on understanding the principles of diversity and unity, ecology, phylogeny kinship between Arthropoda sub Phyla and its relation to human life.</td></tr>
<tr><td>Study/examachievements:</td><td>The final mark will be weight as follow:
<table>
<tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr>
<tr><td>1</td><td>1 to 9</td><td>Attitudes , knolwedge, and skills</td><td>Survey, test, rubrics and manuals</td><td>85%</td></tr>
<tr><td>2</td><td>10;11</td><td>Scientific skills</td><td>Observe rubrics and manuals</td><td>15%</td></tr>
<tr><td colspan="3"></td><td>Total</td><td>100%</td></tr>
</table></td></tr>
<tr><td>Forms of media:</td><td>Real objects, model, multimedia</td></tr>
<tr><td>Reference:</td><td>A. Compulsory books
1. Amin Setyo Laksono,2017. Ekologi Arthropoda. UB Press. Indonesia
2. Barnes, 2000. Invertebrate Zoology. Japan: Toppan Company, Ltd.
3. Minelli, Alessandro, Boxshall, Geoffrey, Fusco, Giuseppe (Eds.). 2013. Arthropod Biology and Evolution. Springer. USA
4. Suhardi, 1988. Media Pendidikan Biologi Avertebrata. P2LPTK Dirjendikti, Depdikbud, Jakarta.

B. Recomended books
1. Kotpal et al, 1981. Modern Texbook of Zoollogy Invertebrates. Meerut: Rastogi Publication.
2. Hickman, Jr, Cleveland P, 1986. Biology of Animals. Times Mirror/Mosby College Publhising st. Louis.
3. Storer, TU & Usinger, 2001. General Zoologi. McGraw-Hill, Inc., New York
4. Pechenick, A.Jan., 1998. Biology of The Invertebrates. Prindle, Weber & Schmidt, Boston</td></tr>
</table>

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CO1				✓							
CO2				✓							
CO3				✓							
CO4				✓							
CO5				✓							
CO6				✓							
CO7				✓							
CO8				✓							
CO9				✓							
CO10				✓							
CO11				✓							