



UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Education in Biology

MODULE HANDBOOK

Module name:	Laboratory Work in Structure and Function of Animals
Module level, if applicable:	Undergraduate
Code:	BIP 6213
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	Even
Module coordinator:	Drh. Tri Harjana, MP
Lecturer(s):	Dr. Heru Nurcahyo, MKes
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 study per 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.
Credit points:	2 SKS (3 ECTS)
Prerequisites course(s):	Basic Biology
Program Learning Outcomes:	PLO4. Mastering basic biology and other relevant knowledge with mathematics and sciences. PLO7. Being able to do independent laboratory work and

	fieldwork.															
Course Outcomes	<p>After taking this course, the students have ability to:</p> <p>CO1. Able to use microscope</p> <p>CO2. Understand the concept structure and fungsi of main tissue : epithelial, textus conectivus, muscle and nerve</p> <p>CO3. Understand the concept structure and fungsi of body organ and system</p> <p>CO4. Able to identification of cell disorder</p> <p>CO5. Able to use equipment</p> <p>CO6. Able to blood analyze</p> <p>CO7. Able to urine analyze</p> <p>CO8. Able to analyze pressure of respiratory gaz</p>															
Content:	This course discusses the awareness of main tissue : epithelial, textus conectivus, muscle and nerve, all body system and organ ; body system disorder															
Study/examachievements:	<p>The final mark will be weight as follow:</p> <table border="1"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CO1 to CO8</td> <td>Observed attitudes , knowledge, and skills</td> <td>Survey, pre test, test, drawing</td> <td>100%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO1 to CO8	Observed attitudes , knowledge, and skills	Survey, pre test, test, drawing	100%	Total				100%
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1	CO1 to CO8	Observed attitudes , knowledge, and skills	Survey, pre test, test, drawing	100%												
Total				100%												
Formsof media:	Real objects, model, multimedia															
Reference:	<p>A. Charles Tmoms and Goetz W Richter, 1984. Atlas and Text Book of Histopatology, ed 7. Year Book Medical Publisher Inc. Chicago</p> <p>B. Dellman ; Brown, 1984. Buku Teks Histologi Veteriner, Edisi 3 (terjemahan oleh R Hartono), UI Press, Jakarta</p> <p>C. Gartner LP: Hiat JL. 1987 Atlas of Histology, Wiilliam and Walkins. Baltimore, Sydney</p> <p>D. Hammersen F . 1985 Histology Color Atlas of Microscopic Anatomy, Baltimore Maryland, USA</p> <p>E. Junqueira LC ; Carneiro J. 1984 Basic Histology. Lange Medical Publication USA</p> <p>F. Wildan Yatim, 1991. Histologi, Tarsito, Bandung</p>															

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11
CO1				✓			✓				
CO2				✓			✓				
CO3				✓			✓				
CO4				✓			✓				

