

MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY

UNIVERSITAS NEGERI SURABAYA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES

Ketintang Campus, D-1 Building, Surabaya 60231 +6231-8296427 Website: www.fmipa.unesa.ac.id, email: info_fmipa@unesa.ac.id

Master Program of Science Education

Module Handbook

Module Name :	Kajian Sains Biologi III/ Study of Biological Science III*)			
Module level :	Master Program of Science Education			
Course Code :	8410103067			
Abbreviation, if applicable:	-			
<i>Courses included in the module, if applicable:</i>	Not Applicable			
Semester/Term	1 st /Second Year			
Module coordinator(s)	Prof. Dr. dr. Tjandra Kirana,M.S., Sp.And			
Lecturer(s):	Prof. Dr. dr. Tjandra Kirana,M.S., Sp.And			
Language:	Indonesian Language			
Classification within the curriculum:	Compulsory/ Elective			
<i>Teaching format/class hours per week during the semester:</i>	2 contact hours of lectures (Indonesia credit semester or CU*)			
Workload :	2 x 50 minutes lectures, 2 x 90 minutes structured activity, 2 x 100 minutes individual activity, 14 weeks per semester, 112 total hours per semester ~ 4.48 ECTS**			
Credit Point:	2 CU (4.48 ECTS)			
Requirements:				
<i>Learning goals/competencies:</i>	Knowledge (KNO-2) CLO-1 Mastering knowledge and technology to study the community and its environment through the study of Animal Structure and Function. CLO-2 Mastering the concepts associated with the structure and processes occurring in the animal's body. CLO-3 Mastering the concepts associated with the structure and processes occurring in the animal's body.			
	Competency (COM-3) CLO-4 Creating the results of the study of animal structure and function literature. CLO-5 Design of literature studies as a source of evidence / character related to animal structure and function studies. This course examines the theory and relates it to processes in daily			



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Content Attribute Soft skill: Study/exam achievements:	life that occur in the animal and human body related to the flow of matter and energy, membrane transport, nerves, senses, hormones, locomocy, transportation, respiration, digestion, thermoregulation, excretion, and osmoregulation. This subject is presented through a comparative approach, discussion, and assignment in the form of papers and / or presentations.Scientific report, public speaking, and team workStudents are considered to be competent and pass if at least get 70. Final score is calculated as follows: 20% Participation + 30% 				
	Final index is defined as follow:				
	Index	Converted Score	Score Range		
	A	4.00	85 ≤ A ≤ 100		
	A-	3.75	80 ≤ A- < 85		
	B+	3.50	75 ≤ B+ < 80		
	В	3.00	$70 \le B < 75$		
	B-	2.75	65 ≤ B- < 70		
	C+	2.50	$60 \le C + < 65$		
	С	2.00	55 ≤ C < 60		
	D	1.00	$40 \le D < 55$		
	E	0.00	$0 \le E < 40$		
Learning Methods :	Case Method, Discussion, and Article Review				
Form of Media:	Power Point slides, e-book file, and multimedia.				
Literature (primary references):	 Auderisk T, Auderisk G, Byers B,2011. Biology. Life on Earth. Edisi Kesembilan. San Fransisco: Pearson. Hill RW, Wyse GA, dan Andreson M, 2012. Animal Physiology. Edisi Ketiga. Massachusetts: Sinauer. Rastogi SC, 2007. Essential of Animal Physiology. Edisi Keempat. New Delhi: New Age International Ltd, Pub. 				
Notes:	*1 CU in learning process = three periods consist of: (a) scheduled instruction in a classroom (50 minutes); (b) structured activity (90 minutes); and (c) individual activity (100 minutes) according to according to Rector Decree of Universitas Negeri Surabaya No. 598/UN38/HK/AK/2020 **1 CU = 2.24 ECTS according to Rector Decree of Universitas Negeri Surabaya No. 598/UN38/HK/AK/2020 *Total ECTS = (total hours workload/ 60 min) / 25 hours Each ECTS is equals with 25 hours				
Last Amendment	5 January 2023				