

Behavioral Biology

Module name		Behavioral Biology				
Module level		3 rd year of Bachelor program				
Abbreviation, if applicable						
Sub-heading, if applicable						
Courses included in the module, if applicable		BI-3201 Behavioral Biology				
Semester/term		6 th Semester				
Module coordinator(s)		Prof. Tati Subahar				
Lecturer(s)		Dr. Lulu Lusianti Fitri Dr. Achmad Sjarmidi				
Language		Indonesian				
Classification within the Curriculum		Compulsory courses for Bachelor Program in Biology				
Teaching format/ class hours per week during the semester		<p><i>2 parallel classes consists of 40 students / class:</i></p> <p><i>Lecture (Face to face lecture & student presentation): 50%</i></p> <ul style="list-style-type: none"> Lecture : 2 x 120 minutes x 14 weeks (120 minutes x 14 = 28 hours) Assignment : Student class presentation/group (4-5 students/group) : 2 hours/semester Examination :1 Midterm Exam, 1 Final Exam <p><i>Practical class : 50%</i></p> <ul style="list-style-type: none"> Practical class : 2 classes x 180 minutes x 12 weeks (3 hours x 12 = 36 hours) Field course : 2 classes x 12 hours x 3 days (12 hours x 3 = 36 hours) Examination : 1 Midterm Exam, 1 Final Exam 				
Workload	Total Workload	208 hours; 4(2) CU				
		Face to face teaching	Assignment/ homework	Independent study	Exam	Total
	Lecture	28	32	32	4	96
	Practical/Field class	36	36	36	4	112
	Total					208
Credit points		Behavioural Biology (4(2) CU)				
Requirements		<i>Fundamental Biology; Basic sciences (Math, Physics, Chemistry), Animal Anatomy and Physiology, Project in Animal Anatomy and Physiology, Animal Development, Genetics, Ecology, Evolution</i>				
Content	<ol style="list-style-type: none"> History, level of organistaion and approach in studying animal behavior Methodes and techniques in observing and measuring animal behavior Animal behavior mechanisms through Nervous system and Endocrine system Environmental cues and organisation of biological clock of animal behavior Animal cognition, learning and communication Animal orientation and migration Sexual selection strategis and parental investment Social behavior of animal Animal behavior application and specialization 					

Learning goals/ competencies	<p><i>After completion of this module, students are expected to be able to:</i></p> <p>Knowledge :</p> <ul style="list-style-type: none"> Engage with the essential facts, major concepts, theories and interdisciplinary approach of animal behaviour relating to conditions in the laboratory, domestics and natural habitat. Describe and demonstrate the skill necessary by using the commonly methods and statistics in the study of animal behaviour and understand to apply scientific methodology to conduct observation and research Show an appreciation to develop both analytical and practical skills required for working in the animal industry and conservation. <p>Skill:</p> <p>(a) <i>Cognitive Skills:</i></p> <ul style="list-style-type: none"> Comprehend the major concepts and appraise the evidence for various explanation of comparative animal behaviour Appreciate current information from scientific literature and develop critical thinking in explaining animal behaviour issues <p>(b) <i>Practical Skills:</i></p> <ul style="list-style-type: none"> Observe and derive adaptive explanations through interdisciplinary approach for animal behaviour studies Competence to develop an appropriate experimental design or investigation the animal behaviour under different conditions (laboratory, domestication and field) within the constraints of time and availability of resources Competence in handling animal and know-how of using commonly used methods and techniques in the laboratory and field Competence to analyse and interpret the results obtained from observing the animal behaviour in order to reach appropriate conclusions <p>Competence:</p> <ul style="list-style-type: none"> Appreciate group working and open discussion and competence to present the results obtained in animal behaviour scientifically both writing and verbally Appreciate comparative and interdisciplinary approach of animal behavior observation and research 																										
	Study/exam achievements	<p><i>Lecture (66%); Practical class (34%)</i></p> <table border="1"> <thead> <tr> <th></th> <th><i>Midterm exam I</i></th> <th><i>Final exam</i></th> <th><i>Assignments</i></th> <th><i>Quizzes</i></th> <th><i>Student class presentation</i></th> <th><i>Total</i></th> </tr> </thead> <tbody> <tr> <td><i>Lecture</i></td> <td>25%</td> <td>25%</td> <td>25%</td> <td>10%</td> <td></td> <td>100%</td> </tr> <tr> <td><i>Practical class/ Field course</i></td> <td>25%</td> <td>25%</td> <td>25%</td> <td>10%</td> <td>15%</td> <td>100%</td> </tr> </tbody> </table>							<i>Midterm exam I</i>	<i>Final exam</i>	<i>Assignments</i>	<i>Quizzes</i>	<i>Student class presentation</i>	<i>Total</i>	<i>Lecture</i>	25%	25%	25%	10%		100%	<i>Practical class/ Field course</i>	25%	25%	25%	10%	15%
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Forms of media	<i>Classical teaching tools:</i>		<i>white board/ chalk and talk, animation, movie, power point, practical class, field course</i>																								
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	<i>Digital teaching tools:</i>		-																								
	<i>Problem based teaching tools:</i>		-																								
Literature	<ol style="list-style-type: none"> Goodenough, J., McGuire, B. & Jakob, E. 2009. <i>Perspective on Animal Behaviour</i>. John Wiley & Sons, Ltd. Chicester Lehner, P. N. 1996. <i>Handbook of Ethological Methods</i>. 2nd. Ed. Cambridge Univ. Press, Cambridge. Martin, P. & Bateson, P. 2007. <i>Measuring Behaviour</i>. 3rd Ed. Cambridge Univ. Press, Cambridge. Relevant scientific journals 																										