



# THE MODULE HANDBOOK

## FACULTY OF BIOLOGY

### Mammalogy

<b>Module code</b>	BIO 41106
<b>Module level</b>	3 <sup>rd</sup> year of Undergraduate Program in Biology
<b>Abbreviation, if applicable</b>	-
<b>Sub-heading, if applicable</b>	-
<b>Courses included in the module, if applicable</b>	-
<b>Semester/term</b>	Even
<b>Module coordinator(s)</b>	Drs. Bambang Agus Surtpto, S.U., M.Sc.
<b>Lecture(s)</b>	Drs. Bambang Agus Surtpto, S.U., M.Sc.
<b>Language</b>	Indonesia
<b>Classification within the Curriculum</b>	Elective course
<b>Teaching format/class hours per week during the semester</b>	This course is organized into one class and planned to have 14 teaching weeks and 2 weeks of examination.
<b>Workload</b>	Estimated working hour: 10,5 hours/week.
<b>Credit points</b>	2-1 credits
<b>Requirements</b>	Animal Systematics (BIO 31101 )
<b>Learning goals/ competencies</b>	<p><b>1. Learning achievement</b> After taking this course the student is expected to:</p> <ol style="list-style-type: none"><li>Able to describe the characteristics, the origin and spread of animal and mammal diversity, especially living in Indonesia.</li><li>Able to discuss the nature of the key characters in particular mammal biology for adaptation that allows it to survive in a variety of environmental conditions.</li><li>Understand the factors (past and present) that determines a decrease in species diversity and conservation efforts, especially in Indonesia.</li><li>Able to use identification keys are available in practical implementation to identify specimens to the level of the Order and Family (and also the level of Genus and Species for local mammal).</li></ol> <p><b>2. Learning materials</b> This course is held as many as 13 face to face meetings with the following subject:</p>



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	<ol style="list-style-type: none"><li>a. The scope mammalogi, and mammal characteristics and its relevance to human</li><li>b. The origin and classification as well as animal mammal zoogeography.</li><li>c. Diversity Mammalia class members and their representatives in Indonesia I (Order monotremes, Marsupilia, Insectivora, and Scadentia).</li><li>d. Diversity Mammalia class members and their representatives in Indonesia II (Order Dermaptera, Chiroptera, Pholidota, and Primates).</li><li>e. Diversity Mammalia class members and their representatives in Indonesia III (Order Lagomorpha, Rodentia, Cetacea, Carnivora).</li><li>f. Diversity Mammalia class members and their representatives in Indonesia IV (Order Proboscidea, Sirenia, Perissodactyla, and Artiodactyl).</li><li>g. Ecology.</li><li>h. Behavior.</li><li>i. The reproductive system in particular mammal berplacenta.</li><li>j. Metabolism and temperature regulation in the mammal.</li><li>k. Setting on the water mammal.</li><li>l. Sensory on the mammal.</li><li>m. Conservation mammal animals that live mainly in Indonesia.</li></ol>
<b>Content</b>	<p>This optional course is intended for upper level students who have plans to research for a thesis or want to explore the biological object is a mammal animal. At Mammalogi subject will be discussed about mammal characteristics that distinguish it from other animal groups, the origin and dissemination of global and diversity of living mammal groups, especially in Indonesia. The emphasis of the discussion on the character of the structure and function of biological interplay important for adaptation in an environment that is the strategy of reproduction, metabolism, regulation of water and senses of the mammal. It also discussed the various factors that influence the degradation of mammal diversity and conservation efforts mammal animals that live mainly in Indonesia. In the practical implementation will be taught the use of identification keys are available in practical implementation to identify specimens to the level of the Order and Familia (and also the level of Genus and Species for local mammal).</p>
<b>Study/exam achievements</b>	<ol style="list-style-type: none"><li>1. Midterm: 20 %</li><li>2. Final examination: 25 %</li><li>3. Field trip/laboratory work: 30 %</li><li>4. Project report: 10 %</li></ol>



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	5. Assignment: 5 % 6. Quiz: 10 %
<b>Forms of media</b>	White board, notebook, LCD
<b>Literature</b>	<ol style="list-style-type: none"><li>1. Anonimous. 1978. Mamalia di Indonesia: Pedoman inventarisasi satwa. Direktorat Jenderal Kehutanan, Bogor.</li><li>2. Bergh, G.D., van, J. de Vos, and P.Y. Sondaar, 2001. The late quaternary paleogeography of mammal evolution in the Indonesian Archipelago.</li><li>3. Paleogeography, Paleoclimatology, Paleoecology 171 (2001) 385-408.</li><li>4. Hilderbrand, M. 1995. <i>Analysis of Vertebrate Structure</i>. 4<sup>th</sup> ed. John Willey &amp; sons Inc. New York.</li><li>5. Suripto, B.A. 2000. Diktat Mammalogi. Fakultas Biologi Universitas Gadjah Mada, Yogyakarta.</li><li>6. Vaughan, T.A. 1972. Mammalogy. W.B. Saunders Company. London</li></ol>