

THE MODULE HANDBOOK

Magister Biology Study Program FACULTY OF BIOLOGY

MOLECULAR DEVELPOMENTAL BIOLOGY

Course code	BIMB202113
Course level	Magister
Semester/ term	Odd/Even
Course coordinator(s)	Dr. Bambang Retnoaji, S.Si., M.Sc.
Lecture(s)	 Dr. Bambang Retnoaji, M.Sc. Dr. biol.hom., Nastiti Wijayanti, M.Si. Dr. Slamet Widiyanto, M.Sc. Dr. med.vet. drh. Hendry T.S.S.G. Saragih, M.P.
Language	Indonesia and English (if there is/are foreign student(s))
Classification within the Curriculum	Elective course
Teaching format/ class hours per week during the semester	This course is organized into 1 class and planned to have 14 teaching weeks and 2weeks of examination.
Workload	Estimated working hour: 2 credits of theory and 1 credit of laboratory work.
Credits	2-1 credits
Requirements	
Program Learning Outcome	KN1 The graduates are demonstrating knowledge and comprehend biological theories, includes all aspects of biological studies at various levels in the organization of life (Knowledge); GS1 The graduates are able to develop logical, critical, systematic, and creative thinking through scientific concept
	and research (General Skills); SS1 The graduates are able to conduct research in the field of biology independently or in groups, and able to solve various biological-related problems (Specific Skills);
Course Learning Outcome	CPMK 1. Students are able to understand the structure and function of cellscomponent in animals' tissues and organ.
	CPMK 2. Students are able to understand the process of reproduction anddevelopment of animal embryos
	CPMK 3. Students are able to master macroscopic and microscopic observationtechniques.
	CPMK 4. Students are able to understand research related to the structure andfunction of tissues and the process of organizing organs in animal bodies.



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Assessment CPMK 1 CPMK 2 CPMK 4 Components e Assignment 30% Assignment 30% Journal 20% Review and presentation Midterm exam 25%
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presentation
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Midterm exam 25%
Final exam 25%
Study Media This course provides a complete picture of how organisms are formed starting from the process of forming sex cells or gametogenesis to the
formation of functional organs in a hierarchical and
coordinated unit in one metabolic process.
Literature 1. Developmental Biology, 10 th ed, Scot Gilberth
2. https://embryology.med.unsw.edu.au/embryology/index.php/Animal
Development