



THE MODULE HANDBOOK

Magister Biology Study Program

FACULTY OF BIOLOGY

STRUCTURAL AND FUNCTIONAL BIOLOGY

Course code	BIMB202114
Course level	Magister
Semester/ term	Odd/Even
Course coordinator(s)	Dr.biol.hom. Nastiti Wijayanti, S.Si., M.Si
Lecture(s)	1. Dr. biol.hom. Nastiti Wijayanti, S.Si., M.Si 2. Dr. Slamet Widiyanto, S.Si., M.Sc 3. Dr. Bambang Retnoaji, S.Si., M.Sc 4. Dr.med.vet. drh. Hendry Saragih, M.P 5. Dr. Zuliyati Rohmah, S.Si., M.Si
Language	Indonesia
Classification within the Curriculum	Compulsory
Teaching format/ class hours per week during the semester	This course is planned to have 14 teaching weeks and 2 weeks of examination.
Workload	Estimated working hour: 2 credits of theory and 1 credit of laboratory work.
Credits	2-1 credits
Requirements	(-)
Program Learning Outcome	<p><i>K1</i>: biological theories, includes all aspects of biological studies at various levels in the organization of life.</p> <p><i>GS1</i>: develop logical, critical, systematic, and creative thinking through scientific research; develop scientific concepts and present the results based on scientific rules, procedures, and ethics in the form of theses and scientific publications.</p> <p><i>SK1</i>: conduct research in the field of biology independently or in groups, and able to solve various biological-related problems.</p>
Course Learning Outcome	<p>CLO1: Students are able to analyze a structure and function of organs/ tissues/ cells/ sub-cellular in animals/ humans.</p> <p>CLO2: Students are able to combine structure and their role in physiological functions.</p> <p>CLO3: Students have the ability to make a report and analyze the results of observations and activities in the laboratory.</p>



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Course Description	Structural and functional biology in the field of biology play an important role for the operation of a mechanism in life processes. Structure determines a function, how an activity can play a role / function / function, especially in a biological system. The relationship between structure and function appears as a process of natural selection or adaptation to achieve homeostasis. The study is fundamental and focuses on understanding the basic concepts or principles / mechanisms of action of a process in the body.
Assesments	Assignment/Quiz, Midterm exam, Final Exam, Laboratory activity
Study Media	Textbook, journal, PPT
Literature	<ol style="list-style-type: none">1. Orchard, G and Nation, B. 2014. Cell Structure and Function (Fundamentals of Biomedical Science). Oxford.2. Seeley, R.R., Stephens, T.D. and Tate. P. 2000. <i>Anatomy and Physiology</i>. McGraw-Hill Company. New York.