THE MODULE HANDBOOK
DOCTOR BIOLOGICAL SCIENCES STUDY PROGRAM
FACULTY OF BIOLOGY

SELECTED TOPIC FOR DISSERTATIONS

Medical Histology

Course code	BIDB203008
Course level	Doctoral Program
Semester/ term	Odd/even
Course coordinator	Dr.med.vet. drh. Hendry Saragih, M.P.
Lecture(s)	Dr.med.vet. drh. Hendry Saragih, M.P. Prof.Dr. Bambang Retnoaji, S.Si., M.Sc. Zuliyati Rohmah, S.Si., M.Si., Ph.D.Eng. Dr. Ardaning Nuriliani, S.Si., M.Kes.
Language	Indonesian/English
Classification within the Curriculum	Compulsory Specialization Courses
Teaching format/ class hours per week during the semester	This course is planned to have 14 teaching weeks and 2 weeks of examination.
Workload	1,125 hours/day 5 days/week 5,625 hours/week 16 Weeks/Semester total workload : 90 hours/3,6 ECTS
Credits	3.6 ECTS
Requirements	-
Program Learning Outcome	CPL 2.1.Upon completing this program, the graduates will be able to discover or develop new scientific theories/concepts/ideas in biology. CPL 2.2. After attending this program, graduates will be able to contribute to the development and practice of the field of biology through scientific research based on scientific principles and ethics through interdisciplinary, multidisciplinary, or transdisciplinary approaches in solving problems in the field of biology CPL 3.2. After completing this program, the graduates demonstrate an undertanding of substantial and leading theory in the field of biology/biological resources in order to support education for sustainable development
Course Learning Outcome	BIDB203008.1 By the end of this course, Students will be able to understand the basic concepts, principles, and theories

	related to the structure of normal and damaged cells and tissues. BIDB203008.2 By the end of this course, Students will be able to understand conventional and modern histological methods in the analysis of cell/tissue damage, abnormalities, and disorders. BIDB203008.3 By the end of this course, students will be able to understand the approaches to identifying, characterizing, and analyzing damage, abnormalities, and disorders in cells and tissues. BIDB203008.4 By the end of this course, students will be able to apply the acquired knowledge in research fields, including biomedical sciences.
Course Description	This course explores the cellular architecture of tissues and provides an in-depth understanding of body function, particularly in relation to disease. The course integrates both conventional and modern histological approaches to facilitate learning. Students will gain knowledge of the structural differences between healthy and diseased cells and tissues. This course also equips students with the foundational skills necessary to analyze cellular and tissue damage, which can be applied in research focused on structural changes caused by internal and external factors
Assessments	The assessment for Selected Topic for Dissertations (Medical Histology) is based on three main components, with the respective criteria and weights: A. Partisipatory Activity (20% B. Project Result/Case Studi result/PBL Result (30%) C. Kognitif • Assignment (5%) • Quizz (5%) • Mid-term Exam (20%) • Final-term Exam (20%)
Study Media and Literature	**Main**: 1. Kumar, Abbas, & Aster. 2015. Robbins and Cotran Pathologic Basis of Disease. 9th edition. 2. Sattar, H.A. 2020. Fundamentals of Pathology. Medical Course and Step 1 Review. Pathoma. 1st. Ed. 3. Junqueira, L.C. and J. Carneiro. 2018. Basic Histology: Text and Atlas. 15th edition. McGraw-Hill Companies, Inc. 4. Kierzenbaum. A. L. 2002. Histology and Cell Biology. An Introduction to Pathology. St. Louis: Mosby Inc. 5. Pawlina, W. 2016. Histology: A Text and Atlas with Correlated Cell and Molecular Biology. 7th edition. Wolters Kluwer **Addition:** 1. Eroschenko V.P. 2003. Atlas Histologi di Fiore dengan Korelasi Fungsional (Terj.). Edisi 9. Penerbit Buku Kedokteran EGC. Jakarta.

	2. Stevens, A. and J. Lowe. 2004. Human Histology. 2nd Edition. Mosby. UK. 3. Lutz Slomianka, 2009, Blue Histology, University of Western Australia, http://www.lab.anhb.uwa.edu.au/mb140/ 4. https://histology.medicine.umich.edu/resources 5. http://stevegallik.org/histologyolm_toc.html 6. https://www.histology.leeds.ac.uk/