

Module Descriptions

Module designation	Histology (course code MPB 2110)
Semester(s) in which the module is taught	3 rd semester of Bachelor Programme in Biology
Person responsible for the module	Ari Hepi Yanti, S.Si, M.Sc.
Lecture (s)	1. Ari Hepi Yanti, S.Si, M.Sc. 2. Diah Wulandari Rousdy, S.Si., M.Sc
Language	Indonesia
Names of other study programmes with which the module is shared	-
Relation to curriculum	Compulsory course
Teaching methods	Lecture and practical sessions
Workload (incl. contact hours, self-study)	Total workload: 7.06 ECTS • Lecture: 26,6 hours (0,99 ECTS) • Assignment: 60.1 hours (2.23 ECTS) • Self-study: 56 hours (2.07 ECTS) • Practical sessions: 47.8 hours (1.77 ECTS) Practical sessions will complement and reinforce the concepts that are taught in the lectures by providing hands-on experience to apply the theoretical knowledge gained).
Credit points	3 credits
Required and recommended prerequisites for joining the module	Students have taken Animal Anatomy (MPB 1205)
Module objectives/intended learning outcomes	Intended Learning Outcomes (ILO) Knowledge (ILO-2) Able to integrate and apply biological science and other scientific fields that support the development of biological science General Skill (ILO-3) Able to collaborate effectively within a team and to communicate actively, both orally and in writing, in the domain of biology Specific Skill (ILO-6) Able to apply biological methodology and use instruments by prioritising work safety and able to apply in the management of tropical wetland resources. Course learning outcomes (CO) CLO 8. The ability to analyze the relationship between the structure and function of the cells, tissues, and organs that constitute living organisms CLO 19. The ability to communicate effectively and empathetically in conveying ideas related to religious and social values, in addition to scientific ethics CLO 27. The ability to operate biological instruments and methodologies by prioritising work safety in the observation and measurement of biological and environmental objects

Content	Histology started with understanding the basic concepts of animal cells structure. It continues to explain and analyse the microanatomical structure of epithelial tissue, connective tissue, muscular system, nervous system, circulatory system and lymphoid system, endocrine system, digestive system, respiratory system, uropoetic system, genital system, and integumentary system
Examination forms	Theory 70% 1. Midterm 25% 2. Final Exams 25% 3. Assignment (literature review, scientific report, quiz) 20% Lab works (activity, pre-test, practical report, lab exam) 30%
Study and examination requirements	75% attendance
Reading list	1. Bacha, W. J., Bacha, L. M. 2000. <i>Color atlas of Veterinary Histology</i>, Second Edition. Lippincott Williams & Wilkins. USA 2. Eroschenko, V.P. 2012. <i>Atlas of Histology DiFiore</i>. Lippincott Wolter Kluwer 3. Genten, F., Terwinghe, E., Danguy, A. 2009. <i>Atlas of Fish Histology</i>. Science Publishers. USA 4. Junqueira, L.C and J. Carneiro. 2007. <i>Histologi Dasar: Teks dan Atlas</i>. Edisi 3. Penerbit Buku Kedokteran EGC 5. Ross M.H. & Pawlina W. 2011. <i>Histology A Text and Atlas</i>. Edisi keenam. Lippincott Williams & Wilkins 6. Hassani M. 2021. Histological and Histochemical Examination of Mucous Cells in Esophagus and Stomach of Rattus norvegicus. <i>Iran J War Public Health</i>; 13 (4) :289-304 URL: http://ijwph.ir/article-1-1092-en.html