Module Descriptions

Module designation	Histology *Histologi*
Course Code	8420502112
Semester/Term	1st Semester
Person responsible for the module	Prof. Dr. Nur Ducha, S.Si M.Si Prof. Dr. Ir. Dyah Hariani, M.Si Dr. Widowati Budijastuti, M.Si
Language	Bahasa Indonesia (Indonesian language)
Relation to curriculum	Elective course
Teaching methods	Lecture
Workload	a. Lecture: 1 x 50 minutes lectures, 1 x 60 minutes structured activity, 1 x 60 minutes individual activity, 14 weeks per semester, 39.67 total hours of lecture per semester ~ 1.59 ECTS b. Lab activity: 1x170 minutes lab activity, 14 weeks per semester 39.67 total hours of lab activity per semester ~ 1.59 ECTS Total of lecture and lab activity= 79.33 total hours per semester ~ 3.18 ECTS**
Credit Point	2 CU(3.18 ECTS)
Required and recommended prerequisites for joining the module	Animal Anatomy, Animal Physiology
Module Objectives/intended learning outcomes	After taking this course, students will be: 1. Able to demonstrate basic knowledge of the structure of cells and tissues that make up the body of animals and humans (*Knowledge*). 2. Able to apply the concepts of cell and tissue structure in the form of assignment activities at Discovery-Based Worksheet, article literacy and practicum activities in the laboratory by observing various types of animal tissue and organ preparations (*Knowledge*). 3. Able to apply logical, critical, systematic, and innovative thinking in the context of developing or implementing science and / or technology in accordance with their field of expertise with the assignment of completion of Discovery-Based Worksheets (*General Competence*) 4. Able to work independently and collaboratively, and be responsible, in completing various assignments in class, in the laboratory, and in the field (*Attitudes*)

<table>
<tr><td>Content</td><td>This course study about the structure of tissue (epithelial tissue, connective tissue, muscle tissue, and nervous tissue) and the microscopic structure (histology) of tissue in various organs of the animal or human body, includes in circulatory system, excretory system, male and female reproductive organs, bone, digestive system, respiratory system, endocrine system, and the tissue structure in invertebrates through discussions, presentations, and observations, the basics of 21 st century (introduction to the basics analysis of tissue structure using an electron microscope, phase contrast microscope, fluorescent microscope, as well as immunohistochemical and immunocytochemical studies). This material also facilitates students to develop higher-order thinking skills with Invention-Based Worksheets, critical thinking skills with article literacy, and develop simple research designs related to histology in animals, as a vehicle for students to develop basic 21st century skills in the field of histology.</td></tr>
<tr><td>Study and examination requirements and forms of examination</td><td>Students are eligible for the final semester test if they have at least 75% attendance in class.

The final grade (NA) is calculated based on the following ratio:

<table>
<tr><th>Assessment Components</th><th>Percentage of contribution</th></tr>
<tr><td>Participation</td><td>20%</td></tr>
<tr><td>Assignment</td><td>30%</td></tr>
<tr><td>Mid-semester test</td><td>20%</td></tr>
<tr><td>Final semester test</td><td>30%</td></tr>
</table>

Grade Conversion of 0-100 scale into 0-4 scale is set as below:

<table>
<tr><th>Letter</th><th>Number</th><th>Grade interval</th></tr>
<tr><td>A</td><td>4.00</td><td>85 ≤ A ≤ 100</td></tr>
<tr><td>A-</td><td>3.75</td><td>80 ≤ A- <85</td></tr>
<tr><td>B+</td><td>3.50</td><td>75 ≤ B+ < 80</td></tr>
<tr><td>B</td><td>3.00</td><td>70 ≤ B < 75</td></tr>
<tr><td>B-</td><td>2.75</td><td>65 ≤ B- < 70</td></tr>
<tr><td>C+</td><td>2.50</td><td>60 ≤ C+ < 65</td></tr>
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</table>

	C	2.00	55 ≤ C < 60
	D	1.00	40 ≤ D < 55
	E	0.00	0 ≤ E < 40
Reading List	1. Lowrie, D.J. 2020. Histology - An Essential Textbook. Thieme:New York. 2. Puspalatha K, et al. 2019. inder Singh's Textbook of Human Histology With Colour Atlas and Practical Guide. Jaypee Brothers, Medical Publisher Pvt. Limited 3. Sontakke, Y. 2019. Textbook of Human Histology: With Color Atlas 3D Ilustrations and Flowchart. CBS PUB & DIST PVT: India 4. Mescher, A.L. 2016. *Junqueira's Basic Histology, Text and Atlas*. Fourteenth edition. United State of America's: McGraw Hill 5. Mescher, A.L. 2010. *Junqueira's Basic Histology, Text and Atlas*. Twelfth edition. United State of America's: McGraw Hill		