


## MODULE HANDBOOK

	<b>UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME</b>	<b>COURSE CODE: D10D-1001</b>
<b>Module designation</b>	Basic Biology	
<b>Semester in which the module is taught</b>	1	
<b>Persons responsible for the module</b>	<ol style="list-style-type: none"> <li>1. Dr. Keukeu Kaniawati Rosada</li> <li>2. Dr. Kartiawati Alipin</li> <li>3. Dr. Teguh Husodo</li> <li>4. Dr. Mia Miranti</li> <li>5. Drs. Hikmat Kasmara, MS</li> <li>6. Drs. Joko Kusmoro, MP</li> </ol>	
<b>Medium of instruction</b>	Indonesian	
<b>Relation to curriculum</b>	Compulsory course	
<b>Teaching methods</b>	Cooperative learning, Inquiry learning, Problem based learning	
<b>Workload</b>	<p>Total workload : 8160 minutes = 136 hours</p> <p>Lecture and discussion : 3 x 50 minutes x 16 weeks = 2400 minutes = 40 hours</p> <p>Exercises : 3 x 60 minutes x 16 weeks = 2880 minutes = 48 hours</p> <p>Self-study : 3 x 60 minutes x 16 weeks = 2880 minutes = 48 hours</p>	
<b>Credit points</b>	3.00 (5.43 ECTS)	
<b>Required and recommended prerequisites for joining the module</b>	-	
<b>Module objectives/intended learning outcomes</b>	<p>Students”</p> <ol style="list-style-type: none"> <li>1. Able to explain the concept of safety and cleanliness in the laboratory.</li> <li>2. Able to explain the basic principles of microscope components and use.</li> <li>3. Able to explain the chemistry of life.</li> <li>4. Able to implement the basic concepts of cells and heredity.</li> <li>5. Able to implement the basics of the microbial world.</li> <li>6. Able to correlate the basic principles of plant and animal taxonomy.</li> <li>7. Able to correlate the basic concepts of plant and animal biosystems.</li> <li>8. Able to correlate biodiversity and ecosystems.</li> </ol>	
<b>Contents</b>	<p>Basic Biology courses are carried out by containing basic concepts of safety and hygiene in the laboratory, basic principles of microscope components and use, the chemistry of life, basic concepts of cells and heredity factors, basics about the microbial world, basic principles of plant and animal taxonomy, basic concepts of plant and animal biosystems, biodiversity and ecosystems. Each material provided will be delivered in line with the implementation of the practicum. By following this course, students are expected to know and understand the basic concepts of Biology in the scientific study of Biology which is harmonized with the development of Biology.</p>	
<b>Examination forms</b>	Quiz, Midterm exam, Assignment, and Final exam	
<b>Study and examination requirements</b>	The minimum attendance in lectures is 80%. Final grades are evaluated based on quiz (20%), midterm exam (30%), assignment (20%), and final exam (30%)	
<b>Reading lists</b>	<ol style="list-style-type: none"> <li>1. Urry, L. A., Cain, M. L. I., Wasserman, S. A., Minorsky, P. V., Reece, J.B., &amp; Campbell, N. A. (2017). Essential biology. Eleventh edition. New York, NY: Pearson Education, Inc.</li> <li>2. Campbell Biology (12th Edition, 2020) by Urry, Cain, Wasserman, Minorsky</li> <li>3. Hinchliff, C. E., et al. (2015). Synthesis of phylogeny and taxonomy into a comprehensive tree of life. Proceedings of the National Academy of Sciences, 112(41), 12764-12769.</li> <li>4. Khan Academy - Biology Library: Link: <a href="https://www.khanacademy.org/science/biology">https://www.khanacademy.org/science/biology</a></li> </ol>	