


## MODULE HANDBOOK

	<b>UNIVERSITAS PADJADJARAN</b> <b>FACULTY OF MATHEMATICS AND NATURAL SCIENCES</b> <b>BACHELOR OF BIOLOGY PROGRAMME</b>	<b>COURSE CODE:</b> <b>D10D-1002</b>
<b>Module designation</b>	Basic Biology Practicum	
<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>	Practice, Project Based Learning, Contextual Learning, Collaborative Learning	
<b>Workload</b>	<p>Total workload : 2720 minutes = 45.33 hours</p> <p>Practice : 1 x 170 minutes x 16 weeks = 2720 minutes = 45.33 hours</p> <p>Exercises : - Self-study : -</p>	
<b>Credit points</b>	1.00 (1.81 ECTS)	
<b>Required and recommended prerequisites for joining the module</b>	-	
<b>Module objectives/intended learning outcomes</b>	<ol style="list-style-type: none"> <li>1. Students are able to explain concepts related to safety and hygiene in the laboratory.</li> <li>2. Students are able to distinguish components and use a microscope.</li> <li>3. Students are able to distinguish cell morphology and hereditary factors [C2].</li> <li>4. Students are able to distinguish microbial cells.</li> <li>5. Students are able to classify plants and animals.</li> <li>6. Students are able to classify plant and animal biosystems.</li> <li>7. Students are able to classify biodiversity and ecosystems.</li> </ol>	
<b>Contents</b>	<p>The Basic Biology Practicum course is conducted by practicing safety and hygiene concepts in the laboratory, basic principles of microscope components and use, basic concepts of cells and heredity factors, basics of the microbial world, basic principles of plant and animal taxonomy, basic concepts of plant and animal biosystems, biodiversity, and ecosystems. Each practical activity provided will be delivered in line with the material in the theoretical practicum. By taking this course, students are expected to understand and practice the basic concepts of Biology in the study of Biology, which is aligned with developments in the field 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 (10%), midterm exam (15%), assignment (10%), final exam (15%), project and participation (50%)	

**Reading lists**

1. Reece, J. B., & Campbell, N. A. (2011). Campbell biology. Boston: Benhoursin Cummings / Pearson.
2. Urry, L. A., Cain, M. L. L., Wasserman, S. A., Minorsky, P. V., Reece, J.B., & Campbell, N. A. (2017). Essential biology. Eleventh edition. New York, NY: Pearson Education, Inc.
3. Urry, L. A., Cain, M. L., Wasserman, S. A., Minorsky, P. V., & Orr, R. B. (2020). Campbell Biology (12th ed.). Pearson.