

Module designation	Basic Biology I
Module level, if applicable	Undergraduate
Code, if applicable	PIPAUM6101
Subtitle, if applicable	-
Courses, if applicable	-
Semester(s) in which the module is taught	Odd/Spring Term
Person responsible for the module	Erti Hamimi, S.Pd., M.Sc
Lecturer	Erti Hamimi, S.Pd., M.Sc Novida Pratiwi, S.Si., M.Sc
Language	Bahasa Indonesia
Relation to curriculum	Undergraduate degree program, compulsory, 1st semester.
Type of teaching, contact hours	Undergraduate degree program: cooperative learning, presentation, laboratory work, 3 x 50 = 150 minutes and 1 x 170 minutes
Workload	1. Lectures: 3 x 50 = 150 minutes (2.5 hours) per week. 2. Exercises and Assignments: 3 x 60 = 180 minutes (3 hours) per week. 3. Laboratory work: 1 x 170 minutes (2.83 hours) per week. 4. Private study: 3 x 60 = 180 minutes (3 hours) per week.
Credit points	4 credit points (~6.35 ECTS-eq)
Requirements according to the examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.
Recommended prerequisites	-
Module objectives/intended learning outcomes	After completing this module, students are expected to: LO1: master basic biology knowledge using the Nature of Science (NOS) along with logical, critical, systematical, and innovative thinking in team collaboration using local potential and information technology development.
Content	This course covers the following three main topics: 1) Cell; Structure and function of cell organelles, cell membrane transport (passive and active transport), 2) Structure and function of plants; morphological structure, anatomical structure, plant physiology, vegetative and generative reproduction of plants.

Study and examination requirements and forms of examination	Assignment, Quiz, Midterm examination, Final examination, Performance
Media employed	LCD, power point, white board, video and moodle (Sipejar)
Reading list	<ol style="list-style-type: none"> <li>1. Duca, Maria. 2015. <i>Plant Physiology</i>. Switzerland: Springer International Publishing.</li> <li>2. Lodish, Berk, Kaiser, Krieger, Bretscher, Ploegh, Amon, &amp; Martin. <i>Molecular Cell Biology</i>. Eight Edition. New York: Katherine Ahr Parker.</li> <li>3. Thomas D.P., William C.E., Jennifer L.S., &amp; Graham, J. 2017. <i>Cell Biology</i>: 3rd Edition. New York: Elsevier.</li> <li>4. Tjitrosoepomo, Gembong. 2011. <i>Morfologi Tumbuhan</i>. Yogyakarta: Gadjah Mada University Press</li> <li>5. Urry, L.A., Michael L.C., Steven, A.W., Peter V.M &amp; Jane B.R. 2016. <i>Campbell Biology</i>. Eleventh Edition. New York: Pearson.</li> </ol>
Date of last amendment made	May, 2020