

Module Handbook

Modul Name	Plant Physiology (Practical Work)
Modul Level	Bachelor
Abbreviation, if applicable	BIB212
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester	Even (6 th semester)
Module Coordinator	Dr. Y. Sri Wulan M., M.Si.
Lecturer(s)	Dr. Y. Sri Wulan M., M.Si. Dr. Edy Setiti W.U., M.Si. Drs. Hery Purnobasuki, M.Si., Ph.D. Dr. Junairiah, M. Kes Dwi Kusuma Wahyuni, S.Si, M.Si
Language	Bahasa Indonesia
Classification Within The Curriculum	Compulsory Course / Elective Studies
Teaching format/ classhours per week during semester	300 minutes/ week
Workload per semester	100 min lecture + 100 min structural assignment + 100 min self-assignment x 13 weeks; total 3900 min = 65 hours 65/25 = 2.6 ECTS
Credit point	1
Requirement	Plant Anatomy (Practical Work)
Learning goals/ competencies	<p>General competence (skill) : Students are able to explain the principles of plant physiology, particularly higher plants and observe, analyze, and report the results of observations in accordance with the scientific method correctly.</p> <p>Specific competence:</p> <ol style="list-style-type: none"> 1. ability to explain the concept of difusion, osmosis, imbibition and water potential 2. ability to measure the plant transpiration and photosynthesis 3. ability to measure the plant growth and development 4. ability to explain the factos and mechanism of photosynthesis 5. ability to explain the metabolism of nitrogen, sulphure, lipid, and the other plant products. 6. ability to explain the growth and development of plant, plant morphogenesis, plant growth regulator and the plant movement (tropic and nastic). 7. ability to explain of the plant respons and ecophysiology
Content	Diffusion, osmosis, osmotic potential, transpiration, opening and closing of stomata, respiration, photosynthesis, growth, dormancy, plant hormones, vascular tissue.
Soft skill Attribute	Diclipline and cooperation
Study/ exam achievements	<p>Students are considered to be competent and pass if at least get 40 of maximum mark of the final score.</p> <p>Final score: paper project (30%), mid exam (30%), final exam (30%), and soffskill (10%)</p> <p>Final index is defined as follow: A = 75-100 AB = 70-74,99 B = 65-69,99 BC = 60-64,99</p>

	C = 55-59,99 D = 40-54,99 E = 0-39,99
Media	Laboratory Equipment
Learning Methode	Practical work
Literature	<ul style="list-style-type: none"> a. Noggle, G.R. and Fritz, G.J., 1986. <i>Introductory Plant Physiology</i>. 2nd Ed. Prentice-Hall of India Private Limited, New Delhi. b. Wilkins, M.B., 1989. <i>Physiology of Plant Growth and Development</i>, McGraw-Hill Publishing Company Ltd. England.
Note	Requirement of plant tissue culture (Practical Work)