

Module Handbook

Modul Name	Plant Tissue Culture (Practical Work)
Modul Level	Bachelor
Abbreviation, if applicable	BIT305
Sub-heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester	Odd (7 th semester)
Module Coordinator	Dr. Edy Setiti Wida Utami, M.S
Lectures	Dr. Edy Setiti Wida Utami, M.S Dr. Y. Sri Wulan M., 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
Requirement	Plant Physiology (Practical Work)
Credit point	1
Learning Outcome	<p>General competence (skill): Students can be able to perform sterilization of explants, media, space; able to making media, inoculated and subcultured explants.</p> <p>Specific competence:</p> <ol style="list-style-type: none"> 1. Able to arrange and design the laboratory and laboratory equipment in plant tissue culture 2. Able to sterilize the laboratory with proper methods and procedur 3. Able to weigh chemical compounds with proper methods and procedur 4. Able to choose the great and proper explants for culture 5. Able to sterilize the explants with proper methods and procedur 6. Able to do inoculum into planting medium and sub culture that aseptic 7. Able to make micronutrien stock, vitamin, and zat besi with proper procedure 8. Able to make planting medium and sterilize it with proper methods and procedure 9. Able to utilize the various methods of tissue culture 10. Able to make auxins stock 11. Able to make cytokinins stock
Content	Laboratory and equipment; equipment sterilization; sterilization of chamber; weighing; explants sterilization; making the media and techniques of media sterilization; inoculation of explants and subcultures; methods of plant tissue culture.
Softskill Attribute	Dicipline and cooperation
Learning Methode	Practical work/discussion
Media	Laboratory Equipment
Assesment	Students are considered to be competent and pass if at least get 40 of maximum mark of the exams (UTS dan UAS), structured activity (group discussion).

	<p>Final score (NA) is calculated as follow: Paper project (30%), mid exam (30%), final exam (30%), and softskill (10%)</p> <p>Final index is defined as follow:</p> <p>A = 75-100 AB = 70-74,99 B = 65-69,99 BC = 60-64,99 C = 55-59,99 D = 40-54,99 E = 0-39,99</p>
Literature	-
Note	-