Module Handbook

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Modul Name	Plant Embryology
Modul Level	Bachelor
Abbreviation, if applicable	BIB301
Sub-heading, if	-
applicable:	
Courses included in the	-
module, if applicable:	
Semester	5 th / Third Year
Module Coordinator(s)	Prof. Hery Purnobasuki, M.Si., Ph.D
Lecturer(s)	Prof. Hery Purnobasuki, M.Si., Ph.D
	Dr. Edy Setiti Wida Utami., M.S
Languange	Bahasa Indonesia
Classification Within The	Compulsory Course / Elective Studies
Curriculum	
Teaching format/ class hours	300 minutes/ week
per week during semester	
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	2
Requirements	Plant Anatomy
Learning goals/	General competence (knowledge):
competencies	Students are expected to explain the mechanism of embryo
	formation in plants correctly.
	Specific competence:
	Ability to explain anatomical structure of Angiospermae
	reproduction organs and their function
	2. Ability to explain the microporegenesis and
	microgametogenesis
	3. Ability to explain the macrosporagenesis and
	macrogametogenesis
	4. Ability to explain the mechanism of the fertilization and
	pollination
	5. Ability to explain the structure and development of plant
	endosperm, embryo, and poliembryoni
	6. Ability to explain the structure and development of fruits
	and seed.
Content	Structure of plant reproductive organ, sporogenesis,
	microsporogenesis, megasporogenesis, microgametogenesis,
	megagametogenesis, pollination, fertilization, embryogenesis,
	endosperm, apomixis.
Soft skill Attribute	Diclipline and argumentation
Study/ exam achievements	Students are considered to be competent and pass if at least get
	40 of maximum mark of the final score.
	Final score: Paper project (15%), quis (15%), mid exam (30%), final
	exam (30%), and soffskill (10%)
	Final index is defined as follow:
	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
Forms of Media	LCD
Learning Methods	Class and discussion
Literature	 a. Bhojwani, S.S., and Bhadnagar, S.P., 1981, The Embriology of Angiospermae, Vikas Publishing House Ltd. New Dehli b. Wardlaw, 1954, Embryology in Plants, Methuen &Co-Ltd., London. c. Wang, T.L., and Cuming, A., 1996. Embryology the Generation of A Plant, Bios Scientific Publisher, d. Thorpe, T.A., 1995, In Vitro Embryogenesis in Plant, Kluwer Academic Publisher,
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