Module designation	*Botany*
Semester(s) in which the module is taught	*2nd*
Person responsible for the module	*Dr. Ir. Suskandini Ratih D, M.S.*
Language	*Indonesian language*
Relation to curriculum	*Compulsory*
Teaching methods	*Lectures (100 minutes)* *Practicum sessions (170 minutes)*
Workload (incl. contact hours, self-study hours)	*Contact hours : 14 weeks x 100 minutes* *Structured learning: 14 weeks x 120 minutes* *Independent study: 14 weeks x 120 minutes* *Practicum sessions: 14 weeks x 170 minutes*
Credit points	*3 (2-1) CP or 4.76 (ECTS)* *((14 weeks x 100 minutes) + (14 weeks x 120 minutes) +* *(14 weeks x 120 minutes) + (14 weeks x 170 minutes)) :* *60 minutes/hour* *= 119 hours : 25 study hours/ECTS* *= 4.76 (ECTS)*
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	- *Students are able to apply the basic concepts and principles of cultivation technology and the development of sustainable agriculture technology*
Content	*Botany course is a 3 (2-1) credit course. This course presents material that covers all the principles of plant biology. Topics covered include body organization plants, consisting of cells, tissues and meristems; function and organization rod system; leaf shape and structure; function, type, development and plant root structure; evolution and plant systematics which includes description, description, nomenclature, and classification of plants; diversity plant-like organisms (algae), diversity and evolution mosses, ferns and seed plants; ecology and community plant; plants and humans.*
Examination forms	*oral presentation, essay*

Study and examination requirements	*Participants are evaluated based on their performance in class (lectures) (70%) and lab (practicum) (30%).* *Performance in theory (100%):* *Mid Exam (20%)* *Final Exam (20%)* *Assignments (40%)* *Class participation (10%)* *Individual quiz (10%)* *Performance in practicum (100%):* *Practicum exam (30%)* *Pre-test or post-test (10%)* *Experiment reports (60%)*
Reading list	1. *Campbell, N.A., J.B. Reece, L.A.Urry, M.L. Cain, S.A. Wasserman, P.V. , Minorsky, R.B. Jackson. 2008. Biologi. Edisi ke delapan. Jilid 1 Translated by Damaring Tyas Wulandari. Penerbit Erlangga.* 2. *Campbell, N.A., J.B. Reece, L.A.Urry, M.L. Cain, S.A. Wasserman, P.V. , Minorsky, R.B. Jackson. 2008. Biologi. Edisi ke delapan. Jilid 2 Translated by Damaring Tyas Wulandari. Penerbit Erlangga.* 3. *Campbell, N.A., J.B. Reece, L.A.Urry, M.L. Cain, S.A. Wasserman, P.V. , Minorsky, R.B. Jackson. 2008. Biologi. Edisi ke delapan. Jilid 3 Translated by Damaring Tyas Wulandari. Penerbit Erlangga.* 4. *Norman Taylor ; 2015. Botany: The Science of Plant Life. ; Publisher, CreateSpace Independent Publishing Platform, P. F. Collier & son company. New York, ,ISBN, 1514603209, 9781514603208 ; 126 p.* 5. *Plant Science. An international journal of experimental plant biology. https://www.sciencedirect.com/journal/plant-science*