Module designation	*Technology of Horticulture*
Semester(s) in which the module is taught	*6^{th}*
Person responsible for the module	*Ir. Yohannes C Ginting, M.S*
Language	*Indonesian language*
Relation to curriculum	*elective*
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* - *Students are able to identify, formulate, solve problems, and apply plant science, plant protection, soil science, socio-economic agriculture, and plant production engineering principles that are oriented towards good agricultural practices (GAP)* - *Students are able to plan, design, implement and develop plant production with the latest and environmentally friendly technology creatively and innovatively*
Content	*Definition and scope of horticulture. Potential and development of horticultural commodities. Classification of horticultural crops. Environmental management grows. Modification of plant growth and environmental factors. Preparation of horticultural planting materials, aspects of horticultural plant protection, horticultural post-harvest handling.*
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. *Ashari, S. 1995. Hortikultura Aspek Budidaya. UI Press. 485p* 2. *Lindley, J. 2011. The Theory of Horticulture: Or, An Attempt to Explain the Principal Operations of Gardening upon Physiological Principles. Cambridge University Press. 410p* 3. *Setiyadi, SE dan Sumarsini. 2004. Tanaman Pangan dan Hortikultura. Bumi Aksar. 51p.* 4. *Sheela., V.L. 2011. Horticulture. Mjp Publishers. 400p.* 5. *Singh, J. 2018. Fundamentals Of Horticulture. Kalyani Publishers. 291p.* 6. *Zulkarnain, Z. 2009. Dasar-Dasar Hortikultura. Bumi Aksara. 336p*