Module designation	*Technology of Organic Farming*
Semester(s) in which the module is taught	*4th*
Person responsible for the module	*Ir. Lestari Wibowo, M.P*
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;* - *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	*The natural and organic concepts; organic agriculture in Indonesia; marketing, standardization, quality and certification of organic agriculture as organic fertilizer; compost; soil biota; solid waste; liquid and organic waste as a source of fertilizer; integrated management of plant nutrients/nutrients; green manure; biofertilizer, farming development system through integrated crop management; pest control and integrated disease; biological pesticides; minimum tillage agriculture and no tillage.*
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. *Barker, A.V. 2010. Science and Technology of Organic Farming. CRC Press. 240p* 2. *Magdoff, F. and R.R. Weil. 2004. Soil Organic Matter in Sustainable Agriculture. CRC Press. 412p* 3. *Maliwal, P.L. 2019. Principles of Organic Farming. Scientific Publ. 171p.* 4. *Panwar, J.D.S and A.K. Jain. 2016. Organic farming: Scope and Uses of Biofertilizers. New India Publ. 277p.* 5. *Permatasari, P., K.M. Zain, E. Rusdiyana, R. Firgiyanto, F. Hanum, E.P. Ramdan, Septiana, U.H..A. Hasbullah, Arsi. 2021. Pertanian Organik. Yayasan Kita Menulis. 130 hlm.*