Module designation	*Agricultural Ecology*
Semester(s) in which the module is taught	*2nd*
Person responsible for the module	*Prof. Dr. Ir. Sri Yusnaini, M.Si*
Language	*Indonesian language*
Relation to curriculum	*Compulsory*
Teaching methods	*Lectures (100 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*
Credit points	*2 (2-0) CP or 3.17 (ECTS)* *((14 weeks x 100 minutes) + (14 weeks x 120 minutes) + (14 weeks x 120 minutes) : 60 minutes/hour* *= 79,33 hours : 25 study hours/ECTS* *= 3.17 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).*
Content	*The agricultural ecology course is a 2 (2-0) credit course.* *This course contains studies on: Provide a basic understanding of the definition, uses and concepts of ecology; physical factors that affect plants; energy in agricultural ecological systems;* *environmental factors and soil properties, nutrient cycles in agricultural ecosystems. Introduction of insects and their dynamics; management of pests, diseases; weed management; plant succession and competition; cropping patterns and crop rotation as well as organic farming in agricultural ecosystems.*
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%)*
Reading list	1. *Sri Yusnaini dan Rusdi Evizal. 2017. Agriculture Ecology . Aura . Press Bandar Lampung.123 hlm.(in Indonesia)* 2. *Foster. 2013. Organic farming growing. The Crowood Press Ltd. Wiltshire. U.K.* 3. *Hasibuan, R. 2017. Ekologi Pertanian: Bagian Proteksi Tanaman. Penerbit CV Anugrah Utama Raharja Bandar Lampung, Indonesia . ISBN: 978-602-6739-19.3 . 226 pp (in Indonesia).* 4. *Price P.W., Denno R. F., Eubanks M.D., Finke D.L., Kaplan I. 2011. Insect Ecology:Behavior, Populations and Communities. Cambridge University Press. New York ISBN: 978-0-521-83488-9* 5. *Schowalter, T.D. 2006. Insect Ecology: An Ecosystem Approach. Elsevier Inc. New York. ISBN: 978-0-123-813527*