Module designation	*Technology of Urban Farming*
Semester(s) in which the module is taught	*7th*
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	*Types of cultivation in urban areas. Vertical cultivation technology design. Effective and efficient irrigation system, plant microclimate regulation system in urban area, utilization of hydroponic cultivation technology (controlled culture). Organic cultivation technology, making liquid and solid organic fertilizers, using household waste as a source of plant nutrition*
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. *Faires, N. 2016. The Ultimate Guide to Urban Farming: Sustainable Living in Your Home, Community, and Business. Skyhorse. 304p.* 2. *Stone, C. 1015. The Urban Farmer: Growing Food for Profit on Leased and Borrowed Land. New Society Publishers. 240p.* 3. *Sulistyowati, D. 2021. Pertanian Perkotaan. BPPSDMP Bogor. 223p*