Module designation	*Plant Pests and Diseases Monitoring*
Semester(s) in which the module is taught	*6th*
Person responsible for the module	*Dr. Ir. Suskandini Ratih D, M.P.*
Language	*Indonesian language*
Relation to curriculum	*Elective*
Teaching methods	*Lectures (50 minutes)* *Practicum sessions (170 minutes)*
Workload (incl. contact hours, self-study hours)	*Contact hours : 14 weeks x 50 minutes* *Structured learning: 14 weeks x 60 minutes* *Independent study: 14 weeks x 60 minutes* *Practicum sessions: 14 weeks x 170 minutes*
Credit points	*2 (1-1) CP or 3.17 (ECTS)* *(14 weeks x 50 minutes) + (14 weeks x 60 minutes) +* *(14 weeks x 60 minutes) + (14 weeks x 170 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 analysis and interpretation data and apply logical, critical, and systematic thinking by avoiding plagiarism* - *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	*Plant Pests and Diseases Monitoring course is a 2 (1-1) credit course. The basics of pest and disease detection; analysis of pest distribution; technique pest control; estimation of pest populations; identification of plant diseases;cdamage assessment method; principles of disease monitoring and forecasting plants in Indonesia.*
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. *Agriculture Pest Surveillance Manual. National Plant Protection Centre (NPPC). 2017. Semtokha Department of Agriculture Ministry of Agriculture & Forests Thimphu 11001 Royal Government of Bhutan. https://pestsofbhutan.nppc.gov.bt/wp-content/uploads/2017/07/Agriculture-Pest-Surveillance-Manual-2017.pdf* 2. *S. Vennila Ramchandra Lokare Niranjan Singh Subhash M. Ghadge C. Chattopadhyay. 2016. Crop Pest Surveillance and Advisory Project of Maharashtra A Role Model for an e-Pest Surveillance and Area Wide Implementation of Integrated Pest Management in India.* 3. *R.S. Singh. 2001. Plant Disease Management. Science Publisher. 238 p.* 4. *Pracaya. 2008. Pengendalian Hama Dan Penyakit Tanaman Secara Organik. Kanisius. 308 p.* 5. *Pracaya. 1999. Hama Dan Penyakit Tanaman Secara Organik. Penebar Swadaya. 417 p.*