



USK
UNIVERSITAS
SYIAH KUALA

FACULTY OF AGRICULTURE
DEPARTMENT OF SOIL SCIENCE

UNDERGRADUATE PROGRAM

MODULE HANDBOOK

Module designation	Introduction to Plant Protection (SSOL2029)
Semester(s) in which the module is taught	3 rd semester
Person responsible for the module	Dr. Ir. Susanna, M.Si.
Language	Indonesian, English
Relation to curriculum	Compulsory module for Soil Science Department
Teaching methods	Lecture, presentation, focus group discussion
Workload (incl. contact hours, self-study hours)	<ul style="list-style-type: none">✓ Lecture and discussion 100 minutes per week per semester✓ Structured tasks 120 minutes per week per semester✓ Personal tasks 120 minutes per week per semester
Credit points	2 SKS = 3.2 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	<ul style="list-style-type: none">✓ Students are able to explain the importance and the damages caused by plant pests and diseases.✓ Students are able to explain the factors affecting plant pests and diseases.✓ Students are able to explain the fundamentals of management and the types of control measures for plant pests and diseases.
Content	The Fundamentals of Plant Protection course discusses the concept of the “Tri Gatra” of plant protection (plant protection as a safeguard for agricultural production, a means of preventing environmental damage, and as a supporter of safe and fair global trade). The course also covers the position of plant protection within the broader field of agricultural science, its main pillars and supporting sciences, losses caused by Plant Pest Organisms (PPO), relevant legislation, bioterrorism, the principles and fundamentals of PPO management, current issues related to PPO, and future directions in PPO management technology development to support sustainable agriculture. Learning activities include lectures, discussions, assignments, and will conclude with a written examination.
Exams and assessment formats	Quiz, assignment, mid term exam, final exam

Study and examination requirements	<ul style="list-style-type: none"> ✓ Quiz: 20% ✓ Assignment: 32% ✓ Mid term exam: 24% ✓ Final exam: 24%
Reading list	<ol style="list-style-type: none"> 1. Agrios, G.N. 2024. Plant Pathology, 6th ed. Elsevier 2. Sutarman. 2017. Dasar-dasar Ilmu Penyakit Tumbuhan. Umsida Press. 3. Tronsmo, A.M., Djurle, A., Munk, L., Collinge, D.B., Tronsmo, A., Yuen, J. 2020. Plant Pathology and Plant Diseases. CABI 4. Sinclair, J. B., & Dhingra, O. D. (2017). Basic plant pathology methods. CRC press. 5. Lucas, J. A. (2020). Plant pathology and plant pathogens. John Wiley & Sons. 6. Ownley, B. H., & Trigiano, R. N. (2016). Plant pathology concepts and laboratory exercises. CRC press. 7. Parthasarathy, S., Lakshmidevi, P., Satya, V. K., & Gopalakrishnan, C. (2024). Plant Pathology and Disease Management: principles and practices. CRC Press.