## DETERMINATION OF CREDITS COURSES INTRODUCTION OF PLANT PROTECTION

Course	CLO	CLO 1.1	Learning Methods	Study Materials	Study Hours		01 (0 1);
					Т	Р	Sks/Credits
Introduction of Plant Protection	Able to describe plant loss and damage, the concept of pests, biotic abiotic diseases, basic concepts of eradication, control and protection of plants against environmentally friendly pests	Basic concepts of plant protection	Face to Face, Structure Assignment, Independent Study	Plant damage and yield losses due to pest attacks     Important role of plant protection	8	0	0,18
		The relationship between plants, the environment and plant pest organisms	Face to Face, Structure Assignment, Independent Study	The concept of the triangle of plant pest organisms     Development factors for plant pest organisms     The concept of outbreaks of plant pest organisms	14	0	0,31
	Able to explain and determine types of abiotic diseases, biotic diseases, pests and weeds in agriculture based on symptoms and signs of opt attacks from observations and collaborative discussions with supervisors, colleagues,	Abiotic causes of plant diseases	Face to Face, Structure Assignment, Independent Study	Definition of diseased plants     The concept of plant diseases     caused by abiotic factors     Symptoms and signs of non-infectious diseases	8	0	0,18
		Biotic causes of plant diseases	Face to Face, Structure Assignment, Independent Study	<ol> <li>The concept of plant diseases caused by biotic factors</li> <li>Pathogenic microorganisms of infectious diseases</li> <li>Symptoms and signs of infectious diseases</li> </ol>	15	7	0,58
		Symptoms and signs of plant pest attacks	Face to Face, Structure Assignment, Independent Study, Practicum	The concept of plant pests     Classification of pests based on kingdom     Symptoms and signs of plant pest attacks	15	7	0,58
	Students are able to determine control strategies for pests and diseases based on law	Plant pest control technology	Face to Face, Structure Assignment, Independent Study, Practicum	Diagnose plant pest attacks     Types of pest control technology     Considerations for choosing pest control technology	8	7	0,42
		Plant disease control technology	Face to Face, Structure Assignment, Independent Study, Practicum	Diagnosis of non-infectious and infectious disease attacks     Types of disease control technology     Consideration of disease control technology selection	8	7	0,42

	Students are able to plan and implement control of pests and diseases in a cultural, biological, physical and chemical manner based on environmentally friendly and sustainable principles  Students are able to protect plants and solve pest problems by controlling pests and diseases in an integrated, environmentally friendly, sustainable manner	Integrated plant health management planning		Case study of integrated pest and plant disease control     Simple planning action plan for	15	0	0,33
		Integrated plant health management planning		integrated pest and plant disease control			
				Total Hours	91	28	3,00
	sks/credit Theory		(Total Hours for Theory × 1 sks)/(2.83 × 16)	SKS Theory			2,01
	sks/credit Practicum/field work		(Total Hours for Practicum × 1 sks)/(2.83 × 10)	SKS Practicum			0,99

The study time required for students to achieve CLO at each learning stage is determined by the lecturer/lecturer team based on their experience in teaching the course.

Total Course SKS/Credits = Theory + Practicum/field work

<sup>1</sup> Semeter = 16 Face Times