

Technical Culture Control

Obligatory module or Selective module	Technical Culture Control	PNH 4235
Semester	Even semester	
Module level	Undergraduate	
Module Coordinator	Prof. Dr. Ir. Triwidodo Arwiyanto, M.Sc.	
Lecturer(s)	Prof. Dr. Ir. Triwidodo Arwiyanto, M.Sc. Prof. Dr. Ir. Edhi Martono, M.Sc.	
Type of Module	1 hour 40 minutes lecture	
Status	E (elective courses)	
Exam	Written	
Number of participants		
Credit Points:	2/0 (3.02 ECTS)	
Description:	Introduction to controlling plant-disturbing organisms in general. Position and role of control in technical culture in IPM. Components of technical culture control: soil solarization, grafting, crop rotation, companion plant, refugia plant, use of compost and soil ameliorants, time to plant/harvest, sanitation and eradication, seed care, botany pesticides.	
Academic goal (competency):	Understand the basic principles of technical culture control, and able to draw a plan of a technical culture control program implementation on major agricultural commodities	
Course outcomes:		
CO1 = Students are able to understand the basic principles of technical culture control		
CO2 = Students are able to draw a plan of a technical culture control program implementation on major agricultural commodities.		
Contents:		
<ol style="list-style-type: none"> 1. Introduction: Pest control in general 2. Position and role of control in technical culture in IPM 3. Components of technical culture control: soil solarization 4. Components of technical culture control: soil solarization, grafting, 5. Components of technical culture control: crop rotation, companion plant, refugia plant 6. The component of control in technical culture: the use of compost and soil enhancers 7. Components of technical culture control: timing of planting / harvesting, sanitation and eradication, seed care 8. Technical control component: botanical pesticides 		
Which previous course required? Plant Protection, Integrated Pest Management		
Literature:		
Materials provided: PPT		

Requirements for exam: 75% attendance set by the Faculty of Agriculture	
Teaching method(s)	Lectures, Presentation, Assignments
Workload (hrs). Theoretical of course: 14 times Lab work: - Home studies: related to the chapter discussed in the class	