

Pesticides and application technique										H	
Integrated pest management											H
Monitoring of pests and diseases									H		
Plant Clinique									H		
Pesticide and environment*										H	
Pesticide residue analyses and bioassay*										H	
Principles of management									H		
Rural sociology		H			H	M					
Entrepreneur-ship										H	

** Classification of the module's contribution, e.g. "high"/"medium"/"low" or other categories depending on the institution's needs.

b. Module -LO of Knowledge (K) Matrix of Plant Protection Study Programme

	K-01. Mastering theoretical concepts of plant protection comprising the causal agents, symptoms, influencing factors, yield losses, and control techniques.	K-02. Mastering theoretical concepts of the exploitation of bio-resources to be used as main components of environ-mental friendly pest management system	K-03. Mastering theoretical concepts of agricultural ecosystem management as parts of environmentally friendly pest management system	K-04. Mastering theoretical concepts of appropriate and environmentally friendly pesticide application.	K-05. Mastering theoretical concepts of domestic and international plant quarantine	K-06. Being cooperative, sensitive and responsive to the society and environment.
Inorganic chemistry				H		
Botany		H			M	
Crop Physiology	M	H				
Basic soil science			H			
Soil fertility			H			
Crop ecology*			H			M
Organic Farming*				H		M
Swamp Farming*			H	H		

Fertilizer and fertilizing technology*			H			M
Swamp Management*			H			
Organic Material Management			H			H
Entomology	H				H	
Mycology	H				H	
Vertebrate pest	H				H	
Plant bacteriology	H				H	
Insect collection	H					
Insect ecology	H		H			
Plant pest identification	M	H	M		M	
Plant disease identification	M	H	H		M	
Plant virology*	M				H	
Plant nematology*	H				H	
Acarology*	H				H	
Storage Pest*	H				H	
Principles of crop protection	M	H		H		M
Plant quarantine					H	M

Pesticides and application technique				H		M
Integrated pest management			H		H	M
Biological control and habitat management		H			H	M
Monitoring of pests and diseases	H					M
Plant Clinique			H	H		H
Pesticide and environment*				H		H
Pesticide residue analyses and bioassay*				H		H
International economics*					H	

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c. Module -LO of General Skill (GS) Matrix of Plant Protection Study Programme

	GS-01. Capable of implementing logical, critical, systematic, and innovative thinking in the concept of development or implementation of knowledge and technology reflecting and concerning human values, in accordance with his/her expertise.	GS-02. Capable of showing qualified and measurable self-performance.	GS-03. Capable of researching the implication implementation of knowledge and technology reflecting and concerning human values, in accordance with his/her expertise, based on scientific nature, procedure and ethics, in order to formulate solution, suggestion, design or art criticism.	GS-04. Capable of formulating scientific description based on the result of abovementioned research in the form of script or final assignment report and uploading the work to the university website.	GS-05. Capable of making accurate decision in the context of problem solution in his/her expertise, based on the results of information and data analyses.	GS-06. Capable of maintaining and developing network with supervisor, colleagues, and workmates, both inside and outside his/her institutions.	GS-07. Capable of being responsible for the achievement of working group and conducting supervision as well as evaluation of the accomplishment of works assigned to workers under his/her responsibility.	GS-08. Capable of conducting self-evaluation of working group under his/her responsibility and capable of managing learning process by his/herself.	GS-09. Capable of documenting, saving, and protecting data, and regaining the data to assure the authenticity and to prevent plagiarism	GS-10. Capable of making quick adaptation to working environment.
Indonesian	H						H			
English		H								H
Introduction to agricultural sciences	H		H							
Statistics				H						
Scientific methods	H								H	
Field practice						H	H	M	H	M
Research Project				H	H	H	H			

Seminar					H	H				
Academic Agricultural English*										H
Land and agrarian law*					H					
Fundamental of agronomy	H									
Horticultural crop cultivation**	H									
Basic soil science	M									
Soil fertility	M									
Swamp Farming*	M									
Fertilizer and fertilizing technology*	M									
Swamp Management*										M
Plant pest identification			H	H						
Plant disease identification			H	H						
Plant entomology	H									
Plant pathology	H									
Important pests of essential crops	H	H	M							
Important diseases of essential crops	H	H	M							
Seed and post harvest disease	H	H	M							

Weed control*			M		H										
Pest forecasting system			H											H	H
Introduction to agricultural economics						M	M								
Farm management*						M	M								
Agricultural extension*				M	M						M				
Entrepreneur-ship						H	H	M							
Principles of business*						H	H	M							
Silkworm farming*						H	H	M							
Mushroom farming*						H	H	M							

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