

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI UNIVERSITAS BRAWIJAYA

FAKULTAS PERTANIAN DEPARTEMEN HAMA DAN PENYAKIT TUMBUHAN

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MINUTES OF MEETING MASTER OF PLANT PATHOLOGY STUDY PROGRAM

ACTIVITY PROGRAM	A follow-up based on the findings and suggestions from Panel Expert of AQAS		
DATE	Thursday, December 7 th 2023		
PLACE	Department room meeting		
PERSONS INVOLVED	Head of Department : Luqman Qurata Aini, SP., M.Si., Ph.D		
	Secretary of Department: Dr. Rina Rachmawati., SP., MP., M.Eng.		
	Head of Study Program : Prof. Dr. Ir. Abdul Latief Abadi, MS.		
	Note-taker :Irisa Trianti, SP., MP., MSc., Ph.D		
	Members : Antok Wahyu Sektiono, SP., MP.		
	M. AkhidSyib'li., SP., SP., Ph.D		
	Dr. Silvi Ikawati, SP., MP., M.Sc.		
	Tita Wijayanti, SP, M.Si.		
	Ito Fernando, SP., MP		
	Faiz Nashiruddin Muhammad, SP., MP.		
	Yogo Setiawan SP., MP.		

Discussion:

The meeting aims to discuss and decide the solution for the findings from AQAS expert panels, from finding number 20-24, and resulted as follows:

No	Narration of Findings
20	The curriculum must include more state-of-the-art topics and methods, e.g. in
	molecular biology, molecular diagnosis, and chemical analytics

We established MPP with unique chaeacteristic of the curriculum, namely ecologycal-based phytopathology as seen in several courses at MPP, namely: Agroecology for Plant Disease Management, Integrated Plant Disease Management, and Microbial and Plant Interaction in ecological and molecular aspects as we have mentioned in the curriculum structure. However, we have also included several topics concerning state-of-the-art topics and methods in several course such as: Techniques in Phytopathology, Biotechnology in Plant Disease Control, Plant Disease Resistance, Plant-Microbes Interaction which can be found in the extended course plan. Several advanced topics and methods including early detection of plant diseases using molecular approach, qRT-PCR technology, and next generation sequencing (NGS) technology for metagenomic analysis, transgenic plant technology, biomarkers for the detection of plant pathogens, plant signal transduction pathway, quorum sensing in bacteria, CRISPR CAS-9 method for developting plant resistance, and analytical chemical analysis techniques using Mass Spectrometry Chromatography. We are committed to regularly updating the content of course to meet the new advances technology in Plant Pathology. They are available in our course description and can be accessed in this link: https://s.ub.ac.id/coursedescmpp and https://fp.ub.ac.id/course-description-of-mpp/

No	Narration of Findings
21	The references and literature recommendations indicated in the course descriptions
	must be updated.

We are committed to regularly updating the references in the course plan, and we already conducted it in 2022 through a workshop on December 19-22, 2022. The workshop document and the latest extended version of the course plans are available. The course plan we have included in the previous AQAS SER was the year of 2021 version. They are available in our course description and can be accessed in this link: https://s.ub.ac.id/course-description-of-mpp/

No	Narration of Findings
22	Pathogenesis must be part of compulsory courses and not electives.

- 1. The faculty member of MPP has discussed the position of pathogenesis courses, and agreed that the courses are still treated as elective courses, upon these considerations:
 - a. The study program observed that students who enter MPP commonly have taken plant disease courses in their undergraduate program (i.e., plant pathology, plant bacteriology, plant mycology, plant virology, and plant nematology), whose course topic contents include the basic of plant pathogenesis. This observation was recorded during Curriculum Synchronization Workshop covering Undergraduate, Master and Doctoral programs conducted by the Department of Plant Pest and Disease FAUB on February 22–23, 2020. They are available in our course plan, and can be accessed in this link: https://s.ub.ac.id/coursedescmpp and https://s.ub.ac.id/coursedescmpp and https://s.ub.ac.id/coursedescmpp and

The documentation of the workshop were shown below:



b. The study program intentionally offers several courses of pathogenesis, to be chosen by the students in regard of their thesis topics, which are: Plant Bacterial Pathogenesis, Nematode Pathogenesis, Fungal Pathogenesis, and Plant Virus Pathogenesis. The MPP students will choose one of the pathogenesis courses in accordance with their thesis research topic to be chosen. For example, students

- who will do research on plant bacteriology will be advised to take the Bacterial Pathogenesis course.
- c. According to the National Board of Accreditation in Indonesia, the curriculum for the master's degrees study program are required to have curriculum flexibility, with elective courses are counted as much as 25% of the total number of courses. If these four pathogenesis courses which in total of 8 credits are included in the compulsory courses, it will reduce the flexibility of the MPP curriculum and will not meet the standards of the National Board of Accreditation.
- d. However, the faculty member of MPP SP were considering AQAS expert suggestion and agreed to shift the course "Physiology in Plant Disease," which covers the topic of general plant pathogenesis, to be a compulsory course. The detail rearrangement will be conducted in the workshop of curriculum being held this year.

No	Narration of Findings
23	Courses should include more practical work elements.

- 2. The Study Program has aware of this since last few years and has finally made credit rearrangement through a curriculum review process that were conducted on March 18, 2023. The process involved both lecturers and students in a participatory method. All participants agreed to add more practical work in the courses. The minutes of meeting and documentation can be accessed at the following link: https://s.ub.ac.id/momguesthousempp and the results of the workshop were shown below:
 - a. Some of the courses that have been added with practical work are: Applied Statistics, Pesticide Ecotoxicology, Fungal Pathogenesis, Viral Pathogenesis, Bacterial Pathogenesis, and Nematode Pathogenesis. The detailed revision of the credits were shown in table below:

Odd Semester	Course	Course type	Revised	Old credit	New credit
PTH81105	Applied Statistics	Compulsory		2 (2-0)	1-1
PTH81106	Research Methodology and Science Ethics	Compulsory		3 (2-1)	2-1
PTH81106	Biotechnology in Plant Disease Control	Compulsory		3 (2-1)	2-1
PTH81211	Viral Pathogenesis	Elective		2 (2-0)	2-1
PTH81212	Quantitative Epidemiology	Elective		2 (2-0)	2-0
PTH81214	Root Microbiology	Elective		3 (2-1)	2-1
PTH81215	Physiology in Plant Disease	Elective	Compulsory	2 (2-0)	2-0
PTH81216	Fungal Pathogenesis	Elective		2 (2-0)	2-1
Even Semester					
PTH81103	Research Methodology and Science Ethics	Compulsory		2 (2-0)	2-0
PTH82121	Agroecology for Disease Management	Compulsory		2 (2-0)	2-0
PTH82122	Pesticides Eco-toxicology	Compulsory		2 (2-0)	1-1
PTH82126	Plant-Microbes Interaction	Compulsory		3 (2-1)	2-1
PTH82233	Integrated Plant Disease Management	Elective		2 (2-0)	2-0
PTH82234	Plant Disease Resistance	Elective		2 (2-0)	2-0
PTH82235	Post Harvest and Seed Pathology	Elective		2 (2-0)	2-0
PTH82231	Bacterial Pathogenesis	Elective		2 (2-0)	2-1
PTH82232	Nematode Pathogenesis	Elective		2 (2-0)	2-1
PTH81213	Plant Quarantine and Regulation	Elective		2 (2-0)	2-0
PTH62292	Special topics	Compulsory		1	
UBU8006	Thesis	Compulsory		12	
				53	

- b. The study program invited stakeholders to discuss curriculum restructuring and gathered suggestions for updating the semester learning plans. The minutes of meeting and documentation can be accessed at the following link: https://s.ub.ac.id/minuteofmeetingmpp
- c. The new arrangement will be applied for the 2023-2024 study year.

No	Narration of Findings
24	The idealised typical course plan should be corrected and improved.

We do have the extended version of course descriptions that include the contents and topics of each course, the level of detail regarding the course learning outcomes, the references and literature recommendations, etc. The documents are available and accessible. The previous version of the course plan available in the AQAS SER document was adjusted to meet the AQAS template / standard and became compacted. We are committed to regularly improving the typical course plan based on new advances in plant pathology through workshops on the curriculum this year, as we have already conducted them in 2020 and 2022. They are available in our course plan, and can be accessed in this link: https://s.ub.ac.id/coursedescmpp and https://s.ub.ac.id/course-description-of-mpp/

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Daftar Hadir

Hari/Tanggal : Senin, 7 Agustus 2023

Acara

:Penyusunan Dokumen Feedback AQAS

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December 7th, 2023

AS BoHead of Department

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Head of MPP SP

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