



# **UNIVERSITAS GADJAH MADA FACULTY OF PHARMACY**

## **MASTER IN PHARMACEUTICAL SCIENCE STUDY PROGRAM 2022**

### **ACCREDITED A**

(According to the Decree of LAM-PTKes  
0408/LAM-PTKes/Akr/Mag/XI/2020)

## **SECRETARIAT**

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# INTRODUCTION

The progress of science, technology, and national developments requires high-quality human beings, both in knowledge and in practice. Moreover, improving the quality of human resources will ensure the continuity of science and technology developments in increasingly diverse and complex interrelationships between scientific disciplines. Therefore, the contribution of unparalleled professional expertise for national development and the ability to keep up with the pace of change in science and technology is perceived as an increasingly urgent demand in all fields, including the pharmaceutical sector.

The Faculty of Pharmacy UGM, as one of the most experienced pharmaceutical schools in Indonesia, seeks to contribute to improving intellectual abilities in the pharmaceutical sector through excellent education, innovative research, and extensive networks to create graduates who can manage change, promote innovation, and are competent according to science and technology development. To accomplish these goals, the Faculty of Pharmacy UGM has established a Postgraduate Program, namely the Master in Pharmaceutical Science Study Program.

The Master in Pharmaceutical Science Study Program has been accredited A according to the Decree of LAM-PTKes No. 0408/LAM-PTKes/Akr/Mag/XI/2020

## OBJECTIVE

The Master in Pharmaceutical Science Study Program aims to create graduates who master competencies in drug discovery and its properties, both natural and synthetic drugs; pharmaceutical manufacturing and quality analysis according to the expected effects; as well as the development of various methods of food and drug quality control chemically, microbiologically and biologically.

# ACADEMIC ACTIVITIES

Semester	Activity	CSU
I	Lectures	16
II	Lectures	16
III & IV	Thesis	8
	Number of CSU	40

# CURRICULUM

No.	Code	Course	CSU
<b>Semester I (Mandatory Course)</b>			
1	FAF 719	Research Methodology and Statistics	2
		General Pharmacy Course	
2	FAF 720	Pharmaceutical Biology	3
3	FAF 721	Pharmaceutics	3
4	FAF 722	Pharmaceutical Chemistry	3
5	FAF 723	Pharmacology and Toxicology	3
6	FAF 724	Thesis I (Thesis Proposal)	2
		<b>Number of CSU</b>	<b>16</b>
<b>Semester I (Co-curricular Course)</b>			
1	FAF 762	Pharmaceutical Skills Laboratory	2 SKS
<b>Semester II (Elective Course and Thesis)</b>			
1		Thesis-related Course	12
2		Elective Course	4
3	FAF 761	Thesis II	8
		<b>Number of CSU</b>	<b>24</b>
		<b>Total Number of CSU</b>	<b>40</b>

# THESIS RELATED COURSE PACKAGE

No.	Code	Course	CSU
<b>Herbal Medicine</b>			
1	FAF 725	Ethnomedicine and Phytotherapy	2
2	FAF 726	Extraction Technology	2
3	FAF 727	Natural Product Analysis	2
4	FAF 728	Standardization of Natural Products	2
5	FAF 729	Experimental Toxicology and Pharmacology	2
<b>Pharmaceutical Biotechnology</b>			
1	FAF 731	Biosimilar Engineering	2
2	FAF 732	Immunomolecular Engineering and Immunology Technique	2
3	FAF 733	Analysis of Pharmaceutical Dosage Form and Biotechnology Products	2
4	FAF 734	Industrial Microbiology	2
5	FAF 735	Tissue Culture and Plant Cells	2
6	FAF 736	Metabolomics	2

### Drug Delivery

1	FAF 737	Physical Pharmacy	2
2	FAF 738	Drug Stability	2
3	FAF 739	Biopharmaceutics	2
4	FAF 740	Drug Delivery System	2
5	FAF 741	Pharmacy Technology	2
6	FAF 733	Analysis of Pharmaceutical Dosage Form and Biotechnology Products	2

### Synthetic Drug Development and Discovery

1	FAF 742	Drug Synthesis	2
2	FAF 743	Structure Elucidation	2
3	FAF 744	Isolation and Separation of Natural Products	2
4	FAF 729	Experimental Toxicology and Pharmacology	2
5	FAF 745	Molecular Pharmacology-Toxicology	2
6	FAF 746	Drug Design	2

### Quality Assurance

1	FAF 747	Quality Assurance (+ GMP, GLP, GDP)	2
2	FAF 748	Process Validation	2
3	FAF 749	Validation and Quality Assurance of Analysis	2
4	FAF 733	Analysis of Pharmaceutical Dosage Form and Biotechnology Products	2
5	FAF 750	Research Design and Chemometrics	2
6	FAF 727	Analysis of Natural Products	2

### Biopharmacy

1	FAF 745	Molecular Pharmacology-Toxicology	2
2	FAF 729	Experimental Toxicology and Pharmacology	2
3	FAF 751	Pharmacogenetics - Genomics	2
4	FAF 752	Drug Interaction	2
5	FAF 753	Biomedical Analysis	2
6	FAF 730	Secondary Metabolites	2

## ELECTIVE COURSE

No.	Code	Course	CSU
1	FAF 754	Immunopharmacology	2
2	FAF 755	Pharmacokinetics	2
3	FAF 756	Cosmetics and Nutraceuticals	2
4	FAF 757	Forensic Toxicology	2
5	FAF 758	Molecular Oncology and Development of Anticancer Agent	2
6	FAF 759	Pharma Engineering and Design	2
7	FAF 760	Drug Evaluation System	2

Number of CSU 14

Students may take elective courses from mandatory/elective courses offered by other master programs at UGM according to the relevant rules.

## ADMISSION & REQUIREMENT

- Holding a bachelor's degree in pharmacy or other related fields from minimum accredited C university
- Complete requirements are available on the website of <http://um.ugm.ac.id>
- Passed the administrative and academic selections

## FACILITIES

- Library with a complete collection
- Computer Laboratory with internet and WiFi
- Laboratories at Faculty of Pharmacy UGM
- Integrated Laboratory for Research and Testing at UGM
- Laboratory of Life Science (Biotechnology)
- Extracurricular activities for improving soft skills, English, and scientific writing
- Scholarship for English thesis writing (competitive)
- Offline and online learning platform
- Guest lectures by qualified practitioners



# PROGRAM MANAGEMENT

## Person-in-Charge

Prof. Dr. apt. Satibi, M.Si. (Dean)

## Head of the Program

Dr. apt. Riris Istighfari Jenie, M.Si.

# TEACHING STAFF

1. Abdul Rohman, Prof., Dr., M.Si., Apt.
2. Abdul Karim Zulkarnain, Dr. M.Si., Apt.
3. Adam Hermawan, Dr.rer.nat., M.Sc., Apt.
4. Adhyatmika, Dr., Apt.
5. Agung Endro Nugroho, Prof., Dr., M.Si., Apt.
6. Agustina Ari Murti Budi Hastuti, Dr. M.Sc., Apt.
7. Akhmad Kharis Nugroho, Prof., Dr., M.Si., Apt.
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11. Bambang Sulistyo Ari S., Dr., M.Si.
12. Chairun Wiedyaningsih, Dr., M.Kes., M.App.Sc., Apt.
13. Djoko Santosa, Dr., M.Si.
14. Dyaningtyas Dewi Putri P., M.Sc., Ph.D., Apt.
15. Edy Meiyanto, Prof., Dr., M.Si., Apt.
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18. Hari Purnomo, Dr., M.S., Apt.
19. Hilda Ismail, Dr., M.Si., Apt.
20. Ika Puspitasari, Dr., M.Si., Apt.
21. Indah Purwantini, Dr., M.Si., Apt.
22. Khadijah, Dr. Eng., M.Si., Apt.
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