

SPECIFICATIONS OF PHARMACY STUDY PROGRAMS



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: Dean of Pharmacy



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**FACULTY OF PHARMACY
UNIVERSITAS AHMAD DAHLAN
YOGYAKARTA
2019**

SPECIFICATIONS OF PHARMACY STUDY PROGRAMS

Faculty of Pharmacy
Universitas Ahmad Dahlan
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Forewords

Alhamdulillahirobbil'alamin, thankfulness to Allah SWT for providing the opportunity to compile this specific document. The Pharmacy Study Program Specification Document is published in order to provide an overview of the Pharmacy Study Program profile, Universitas Ahmad Dahlan. More than that, as a reference in the development of the Pharmacy Study Program in the academic quality assurance framework.

This specification document contains: a brief history and organization of pharmacy study programs; vision-mission-goals and objectives; curriculum and academic atmosphere; student affairs; facilities and infrastructure; research and community service; and monitoring and evaluation.

Therefore, this specification book is expected to strengthen the implementation of the academic process in the Pharmacy Study Program and improve academic quality. However, the authors are aware that the quality of this specification book is still not optimal. Therefore, we await constructive suggestions and input from all parties. We also thank the Pharmacy Study Program Specification Book Drafting Team who have worked hard in compiling this book. Hopefully this book can provide information especially for the entire academic community of Pharmacy Study Program, Universitas Ahmad Dahlan.

Yogyakarta, December 2019

The head of Pharmacy Study Program

Dr. Dwi Utami, M.Si., Apt.

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IDENTITY OF STUDY PROGRAM

Institution	: Universitas Ahmad Dahlan
Implementing the Learning Process	
Faculty	: Pharmacy
Study Program (study program code)	: Pharmacy (23)
Decree of Establishment of Study Program	: 27/DIKTI/Kep/1997
Date of Establishment	: 21 March 1997
Address	: Kampus III UAD Jl. Prof. Dr. Soepomo, SH, Janturan, Warungboto, Umbulharjo, Yogyakarta 55164
The program is accredited by	: (LAM-PTKes) No. 0085/LAM-PTKes/Akr/Sar/II/2019
Validity of the Certificate	: 22 February 2024
Degree	: Sarjana Farmasi (S.Farm)
Compilation / Revision Date	: December 2019

CHAPTER I

BRIEF HISTORY AND ORGANIZATION PHARMACY STUDY PROGRAM

A. Brief History Of Pharmacy Study Program

The Pharmacy Study Program is managed by the Faculty of Pharmacy. The Faculty of Pharmacy manages the Pharmacy Study Program (Undergraduate) and PSPA (Pharmacist Professional Study Program). The Faculty of Pharmacy is one of the 10 Faculties owned by Universitas Ahmad Dahlan, Yogyakarta (UAD). Universitas Ahmad Dahlan Undergraduate Pharmacy Study Program was established in 1996 based on Director General of Higher Education Decree No. 27 / DIKTI / Kep / 1997, March 21, 1997. Furthermore, on January 2, 2001 the Pharmacist Professional Study Program (PSPA) was established with the Rector's Decree Number: 003 in 2001. Furthermore, due to the rules of the Ministry of National Education states that professional education must be separate from the undergraduate study program, a Decree of Operational Permit issued by the Directorate of Higher Education with No Decree: 364 / D / T / 2010. As part of the Universitas Ahmad Dahlan (Muhammadiyah Higher Education Institutions), the Faculty of Pharmacy has a moral responsibility to solve national problems, especially related to public health issues.

Through the quality and sustainable education program, it is hoped that professional and qualified health workers will have the sense of responsibility in providing excellent health services to the community in accordance with their competency standards. Improvement in the quality of the Faculty of Pharmacy is proven by obtaining accreditation B based on Decree Number 012 / BAN-PT / Ak-VII / 2003. Furthermore, based on BAN-PT: 027 / BAN-PT / Ak-XII / S1 / IX / 2009 has been accredited A. Pharmacy study program was able to maintain its quality by obtaining accreditation A according to BAN-PT Decree: 437 / SK / BAN-PT / Akred / S / XI / 2014. The last accreditation was in 2019 by the Independent Higher Education Institution for Health Accreditation (LamPTKes) with an A grade according to SK LAM-PTKes No. 0085 / LAM-PTKes / Akr / Sar / II / 2019 is valid until 2024.

Faculty of Pharmacy occupied Campus I, Jalan Kapas. Students carried out practicum on Campus II (Jalan Pramuka No. 42). Starting in 1999, the faculty began to occupy Campus III with a laboratory position not far from Campus III, in Integrated Laboratory (together with the Faculty of Mathematics and Natural Sciences, FTI). Starting in 2019, integrated laboratories are only used with the Faculty of Public Health with a proportion of 75% for the Faculty of Pharmacy. In addition, in 2018, the Laboratory of the Faculty of Pharmacy was expanded with more complete research equipment.

The Faculty of Pharmacy began accepting one class of new students in 1996. There were 117 students accepted. The origin of students was still dominated from Java. Now, Pharmacy Study Program has students from all around Indonesia. Over the past 20 years, the Faculty of Pharmacy has experienced leadership changes four times. In 1996 - 1999 led by Prof. Dr. Sugiyanto, S.U., Apt, for two periods led by Dr. Tedjo Yuwono, Apt until 2008. The next period starting in 2008-2012 was led by Dra. Any Guntarti, M.Sc., Apt and the 2013-2017 period was led by Dr. Dyah Aryani Perwitasari, M.Sc., PhD., Apt.

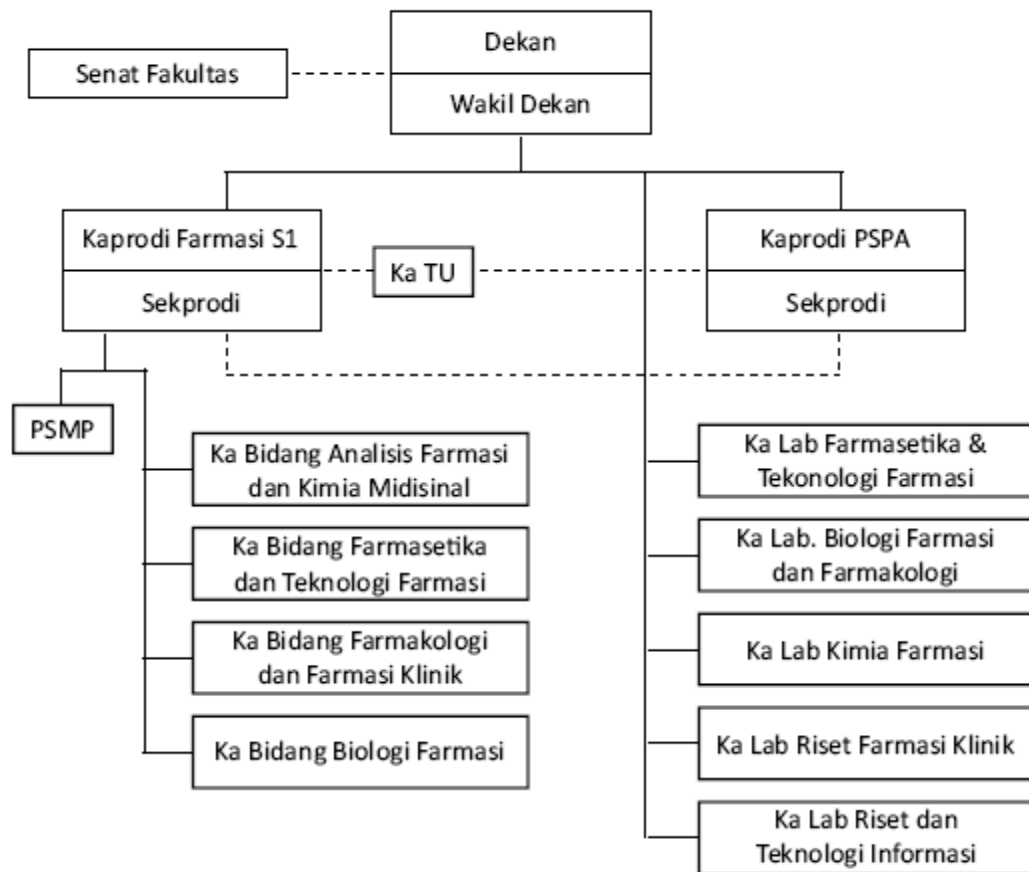
Starting from Dra. Any Guntarti, M.Sc., Apt., There was a restructuring at Universitas Ahmad Dahlan, the Dean was invited by the Vice Dean. Next, the structural underneath is the the Head of the Study Program (PSS), the Head of the Pharmacist Professional Study Program (PSPA), each of the head of the Study Program supported by a Secretary. To help learning process in the Laboratory, the Faculty of Pharmacy has 4 Laboratory heads under the coordination of the Dean. Considering the development of clinical pharmacy learning, Faculty of Pharmacy opened the Clinical and Community Pharmacy Laboratory in 2019 and appointed Adna, M.Sc., Apt as the head of the laboratory.

Management of Pharmacy Study Program, started in 1996 to 2004 directly under the faculty. The increasing of external demands on the development of study programs, starting in 2005 the head of the Study Program was appointed. 2005-2009, Pharmacy Study Program was led by Dra. Any Gunarti, M.Sc., Apt., With the Study Program Secretary Dr. Dyah A. P, M.Sc., PhD., Apt. The 2009-2013 period was led by Wahyu Widyaningsih, M.Sc., Apt., With the Secretary of the Study Program Dwi Utami, M.Sc., Apt. Furthermore, the 2013-2017 period was led by Dr. Nurkhasanah, M.Sc., Apt., With the Secretary of the Study Program Nina Salamah, M.Sc., Apt. 2019 - 2024, then held by Dr. Dwi Utami, M.Sc., Apt as the head of the Study Program with the secretary Siti Fatma Fatima, M, Sc, Apt. While the Faculty of Pharmacy is led by Prof. Dr. Dyah Aryani Perwitasari, Ph.D., M.Sc., Apt as the Dean and Dr. Hari Susanti, M.Sc., Apt as vice dean.

B. Organizational Structure

Dean	: Prof. Dr. Dyah A. P, M.Si., PhD., Apt
Vice Dean	: Dr. Hari Susanti, M.Si., Apt
Head of Study Program (S1)	: Dr. Dwi Utami, M.Si., Apt
Secretary of Study Program (S1)	: Siti Fatmawati Fatimah, M.Sc., Apt
Head of the Pharmacist Professional Program	: Dr.rer.nat Endang Darmawan, M.Si., Apt
Secretary the Pharmacist Professional Program	: Lina Widyastuti, M.Sc., Apt
Head of Pharmaceutics and Pharmaceutical Technology Lab.	: Dr. Arif Budi Setianto, M.Si., Apt.
Head of Biology of Pharmacy and Pharmacology Lab.	: Dr. drh. Sapto Yuliani, MP.
Head of Pharmaceutical Chemistry Lab.	: Aprilia Kusbandari, M.Sc. Apt
Head of Research and Information Lab.	: Dr. Nurkhasanah, M.Si., Apt.

1. Organizational Structure Of Faculty Of Pharmacy



Keterangan : ——— Garis Komando
 Garis Koordinasi

Figure 1. Organizational Structure Of Faculty Of Pharmacy

C. Lecturers Qualifications

Table 1.Permanent Lecturers And Their Education And Competence

No	Name	Education	Competence
1.	Achmad Mursyidi, Prof. Dr., M.Sc., Apt	S3	Pharmaceutical Analysis and Medical Chemistry
2.	Adnan, M.Sc., Apt	S2	Pharmacology and Clinical Pharmacy
3.	Akrom, Dr. dr, M.Kes	S3	Pharmacology and Clinical Pharmacy
4.	Anas Binarjo, M.Sc., Apt	S2	Pharmacetics and Pharmaceutical Technology
5.	Ana Hidayati, M.Sc., Apt	S2	Pharmacology and Clinical Pharmacy
6.	Andrianasari, M.Sc., Apt	S2	Pharmacology and Clinical Pharmacy
7.	Any Guntarti, Dra, M.Si., Apt.	S2	Pharmaceutical Analysis and Medical Chemistry
8.	Aprilia K, M.Sc., Apt	S2	Pharmaceutical Analysis and Medical Chemistry
9.	Dr. Arif Budi Setianto, M.Si., Apt	S3	Pharmacetics and Pharmaceutical Technology
10.	Aziz Ikhsanudin, M.Sc., Apt	S2	Pharmacetics and Pharmaceutical Technology
11.	Citra Ariani E., M.Sc., Apt	S2	Pharmacetics and Pharmaceutical Technology
12.	Deasy Vanda Pertiwi, M.Sc., Apt	S2	Pharmacetics and Pharmaceutical Technology
13.	Dian Prasasti, M.Sc	S2	Pharmaceutical Analysis and Medical Chemistry
14.	Prof. Dr. Dyah Aryani P., M.Si., PhD., Apt	S3	Pharmacology and Clinical Pharmacy
15.	Dr. Dwi Utami, M.Si., Apt.	S3	Pharmaceutical Analysis and Medical Chemistry
16.	Endang Darmawan, Dr., rernat M.Si., Apt	S3	Pharmacology and Clinical Pharmacy
17.	Farida Baroroh. M.Sc., Apt	S2	Pharmacology and Clinical Pharmacy
18.	Dr. Hari Susanti, M.Si., Apt.	S3	Pharmaceutical Analysis and Medical Chemistry
19.	Hafizah Dania, M.Sc., Apt	S2	Pharmacology and Clinical Pharmacy
20.	Hardi A Witasari, M.Sc., Apt	S2	Pharmaceutical Analysis and

No	Name	Education	Competence
			Medical Chemistry
21.	Hendy Ristiono, S.Far., Apt	S2	Pharmacology and Clinical Pharmacy
22.	Ichwan R R, M.Sc., Apt	S2	Pharmaceutical Analysis and Medical Chemistry
23.	Iin narwanti, M.Sc	S2	Pharmaceutical Analysis and Medical Chemistry
24.	Dr. Iis Wahyuningsih, Dra., M.Si., Apt	S3	Pharmacetics and Pharmaceutical Technology
25.	Imaniar N F, M.Sc., Apt	S2	Pharmacology and Clinical Pharmacy
26.	Kintoko, Dr., M.Si., Apt	S3	Pharmaceutical Biology
27.	Laela Hayu Nurani., Dr., M.Si., Apt.	S3	Pharmaceutical Biology
28.	Lalu Muhammad Irham, M.Farm., Apt	S2	Pharmacology and Clinical Pharmacy
29.	Lina Widyastuti, M.Sc., Apt	S2	Pharmacetics and Pharmaceutical Technology
30.	Lolita, M.Sc., Apt	S2	Pharmacology and Clinical Pharmacy
31.	Moch. Saiful Bachri., Dr., M.Si., Apt.	S3	Pharmacology and Clinical Pharmacy
32.	Muh. Muhlis, S.Si, Sp.FRS., Apt.	S2	Pharmacology and Clinical Pharmacy
33.	Mustofa Ahda, M.Sc	S2	Pharmaceutical Analysis and Medical Chemistry
34.	Nanik Sulistyani, Dr., M.Si., Apt.	S3	Pharmaceutical Biology
35.	Nina Salamah, M.Sc., Apt	S2	Pharmaceutical Analysis and Medical Chemistry
36.	Nining Sugihartini, Dr., M.S.i, Apt.	S3	Pharmacetics and Pharmaceutical Technology
37.	Nuri Ari Efiana, M.Sc., Apt	S2	Pharmacetics and Pharmaceutical Technology
38.	Nurkhasanah, Dr. M.Si., Apt.	S3	Pharmaceutical Analysis and Medical Chemistry
39.	Sapto Yuliani, Dr. drh, MP	S3	Pharmacology and Clinical Pharmacy
40.	Siti Fatmawati F, M.Sc., Apt	S2	Pharmacetics and Pharmaceutical Technology
41.	Susan Fitria Candra Dewi, M.Sc., Apt	S2	Pharmacetics and Pharmaceutical Technology
42.	Tedjo Yuwono, Dr., Apt	S3	Pharmacetics and Pharmaceutical Technology
43.	Dr. Vivi Sofia, M.Si., Apt.	S3	Pharmacology and Clinical

No	Name	Education	Competence
			Pharmacy
44.	Verda Farida, M.Biotech., Apt	S2	Pharmacetics and Pharmaceutical Technology
45.	Wahyu Widyaningsih, Dr. M.Si., Apt	S3	Pharmacology and Clinical Pharmacy
46.	Warsi, S.Si., Apt	S2	Pharmaceutical Analysis and Medical Chemistry
47.	Widyasari P, M.Sc., Apt	S2	Pharmacetics and Pharmaceutical Technology
48.	Woro Supdami, M.Sc., Apt	S2	Pharmacology and Clinical Pharmacy
49.	Zainab, M.Si., Apt	S2	Pharmaceutical Biology

CHAPTER II

VISION, MISSION AND GOAL

A. Vision

To become an internationally recognized pharmaceutical higher education institution based on the Islamic values

B. Mission

1. To conduct pharmaceutical education that are internationally recognized and based on Islamic values
2. To conduct education, research and community service with the concept of Islamic da'wah
3. To establish national and international partnership to implement Tri Dharma (Three Principles of Higher Education Institution)

C. Goals

1. To produce professional graduates in the clinical pharmacy, pharmaceutical science and technology as well as natural materials with international qualification and Islamic values
2. To Produce graduates with the ability and skills in entrepreneurship, collaboration and have experience in pharmaceutical research
3. To produce graduates with a good concern on the community and Islamic da'wah
4. To produce pharmaceutical scientific product with high quality and value in partnership-based community

CHAPTER III CURRICULUM AND ACADEMIC ATMOSPHERE

A. Graduates Profile

Pharmacy graduates who are able to carry out pharmaceutical work in production, distribution and health services as well as supervision and policy of pharmaceutical preparations based on Islamic values

B. Learning Outcomes

In the implementation, curriculum achievements according to the KKNi (Qualification Framework) are summarized into 7 learning outcomes of study programs, namely:

1. Able to perform drug discovery, formulation development and production as well as quality control of both natural-based and synthetic-based pharmaceutical dosage forms/ products according to the current Good Manufacturing Practice.
2. Able to perform good pharmaceutical care and are able to perform good the concept of pharmacotherapy, pharmaceutical community, and service management.
3. Able to think logically, critically, systematically, and innovatively in the development and implementation of pharmaceutical science.
4. Able to plan and do the basic research in pharmacy field.
5. Have good leadership, teamwork skill, and good communication skills both written and verbal
6. Eager to be a lifelong learner to constantly improve and develop knowledge including entrepreneurship
7. Demonstrate responsibility, integrity, and accountability with Islamic moral, Muhammadiyah's spirit, and ethics

Suitability of study program learning outcomes with KKNi (Qualification Framework) learning outcomes can be seen in table 2.

Table 2. Suitability of study program learning outcomes with KKNi (Qualification Framework) learning outcomes

Learning Outcomes of Study Program	Learning Outcomes of Study Program in accordance with KKNi
Having knowledge and being able to do drug discovery, formulation development and production as well as quality control of natural and synthetic based pharmaceutical products according to current Good	<ol style="list-style-type: none"> 1. Mastering the concept of drug development including drug discovery, formulation, distribution of pharmaceutical preparations based on rules and regulations 2. Mastering the concept of developing

Manufacturing Practice.	<p>traditional medicine and its application in health services</p> <p>3. Being able to design, manufacture, quality assurance and distribution of pharmaceutical preparations from synthetic or natural ingredients</p>
Being able to conduct good pharmaceutical care and understand the concepts of pharmacotherapy, the pharmaceutical community, and service management.	<ol style="list-style-type: none"> 1. Mastering the concept of pharmacy management and pharmacy services, health centers and hospital 2. Mastering the concept of pharmacotherapy including pathophysiology, etiology, risk factors, and economic factors for therapeutic management. 3. Mastering the concept of pharmacotherapy including pathophysiology, etiology, risk factors, economic factors for therapeutic management. 4. Being able to identify, evaluate, prepare, and provide information about drugs, treatment, and rational use of drugs. 5. Having skills in the pharmaceutical services
Being able to think logically, critically, systematically, and innovatively in the development and implementation of pharmaceutical science and technology.	<ol style="list-style-type: none"> 1. Mastering the concept of analysis of drug ingredients, pharmaceutical preparations, food-drinks, cosmetics and chemical compounds in the body. 2. Having skills in the field of analysis of drug ingredients, pharmaceutical preparations, food-drinks, cosmetics and chemical compounds in the body. 3. Being able to apply logical, critical, systematic, and innovative thinking in the context of the development or implementation of science and technology that focus on the application of humanities in accordance with the fields of expertise 4. Being able to study the implications of the development or implementation of science and technology focus on the

	<p>application humanity values in accordance with the expertise based on scientific rules, procedures, and ethics in order to produce solutions, ideas, designs or art criticism;</p>
<p>Understanding and being able to carry out basic research</p>	<ol style="list-style-type: none"> 1. Being able to compile scientific description of the study in thesis or final project report, and upload it on university web; 2. Being able to document, store, secure and recover data to ensure validity and prevent plagiarism; 3. Having skill to analyze , conclude and, convey pharmaceutical scientific informations
<p>Having good leadership and teamwork skills in science and good communication skills, both written and verbal.</p>	<ol style="list-style-type: none"> 1. Being able to communicate, adapt, and build interpersonal and interprofessional relationships 2. Being able to show independent, quality and measurable performance; 3. Being able to make appropriate decisions in the context of problem-solving in the area of expertise, based on the results of information and data analysis; 4. Being able to maintain and develop the network of supervisors, colleagues, both inside and outside the institution. 5. Being able to be responsible for the works in the group and to supervise and evaluate the works; 6. Mastering knowledge on pharmaceutical management, socio-pharmacy, pharmaceutical law and ethics, communication techniques, and basic principles of work safety.
<p>Being able to be a lifelong learner to continuously improve and develop knowledge including entrepreneurship.</p>	<ol style="list-style-type: none"> 1. Being able and having skills in drug discovery and development, including searching for drug ingredients, pharmacological tests and toxicological tests of medicinal materials from synthesis or natural materials.

	<ol style="list-style-type: none"> 2. Being able to carry out a process of self-evaluation in workgroups and be able to manage to learn independently
<p>Being able to show responsibility, integrity and accountability based on Islamic morals, Muhammadiyah spirit, and ethics when working as professionals.</p>	<ol style="list-style-type: none"> 1. Devoting to God Almighty and able to show a religious attitude 2. Upholding the value of humanity in carrying out duties based on religion, morals and ethics 3. Contributing to improve the quality of life of society, nation, state and civilization based on Pancasila 4. Acting as a proud of the country, having nationalism and the sense of responsibility to the country and nation; 5. Respecting the diversity of cultures, views, religions, and beliefs, as well as other people's original opinions or findings; 6. Cooperating and having social sensitivity and for the community and the environment; 7. Obeying the law and discipline in community and state life 8. Internalizing academic values, norms and ethics; 9. Showing responsibility for work in the field of expertise independently; 10. Internalizing the spirit of independence, struggle and entrepreneurship 11. Being able to apply and carry out pharmaceutical science based on Islamic moral and professional ethics. 12. Being able to carry out and spread the values of the community in the community

C. Curriculum Structure

The 2018 curriculum consists of 147 credits, with 137 credits of compulsory subject and 10 credits of electives that can be seen in table 3.

1. **Compulsory Subjects**, must be taken by students each semester and taken after taking pre-req subjects (if any). Pre-reg courses are compulsory subjects before taking certain courses in the next semester.

Table 3. Compulsory Subject

Sem	Num	Code	Subjects	Credits	Pre Req
SEMESTER I	1	182310120	Quran and Hadist	2	
	2	182310220	Molecular and Cell Biology	2	
	3	182310320	Pharmacognosy	2	
	4	182310420	Pharmaceutics	2	
	5	182310520	Analytical Chemistry I	2	
	6	182310620	Basic of Pharmaceutical Chemistry	2	
	7	182310720	Organic Chemistry I	2	
	8	182310820	Microbiology and Virology	2	
	9	182310920	Pancasila	2	
	10	182311011	Laboratory Practice of Pharmacognosy	1	
	11	182311111	Laboratory Practice of Basic Pharmaceutical Chemistry	1	
	12	182311211	Laboratory Practice of Microbiology	1	
	13	182320100	Tahsinul Quran	0	
	Total				21
SEMESTER II	1	182320120	Human Anatomy and Physiology	2	
	2	182320220	Indonesian Language	2	
	3	182320320	Pharmacology	2	
	4	182320420	Physical Pharmacy	2	
	5	182320520	Phytochemistry I	2	
	6	182320620	Formulation & Technology of Solid Dosage Forms*	2	
	7	182320720	Prescription I	2	
	8	182320820	Analytical Chemistry II	2	
	9	182320920	Organic Chemistry II	2	
	10	182321011	Laboratory Practice of Physical Pharmacy	1	
	11	182321111	Laboratory Practice of Analytical Chemistry	1	
	12	182321211	Laboratory Practice of Organic Chemistry	1	
	13	182360100	Kemuhammadiyah	0	
	Total				21

SEMESTER III	1	182330120	Aqidah Islam (Islamic Studies II)	2	
	2	182330220	Biochemistry	2	
	3	182330320	Pharmacokinetics	2	Pharmacology
	4	182330420	Pharmacotherapy I *	2	
	5	182330520	Civic education	2	
	6	182330620	Instrumental Chemistry Analysis	2	Chemical Analysis II
	7	182330720	Medical Chemistry	2	Organic Chemistry II
	8	182330811	Laboratory Practice of Biochemistry	1	Biochemistry
	9	182330911	Laboratory Practice of Pharmaceutics	1	Pharmaceutics
	10	182331011	Laboratory Practice of Formulation & Technology of Solid Dosage Forms	1	Solid FTS
	11	182331120	Preformulation	2	Physical Pharmacy
	12	182331220	Toxicology	2	
	Total			21	
SEMESTER IV	1	182340220	English Language	2	
	2	182340320	Biopharmaceuticals	2	Pharmacokinetics
	3	182340420	Pharmacotherapy II *	2	Pharmacology
	4	182340520	Phytochemicals II	2	Phytochemicals I
	5	182340620	Formulation & Technology of Liquid and Semi Solid Dosage Forms	2	Pharmaceutics
	6	182340720	Entrepreneurship	2	
	7	182340820	Chromatography	2	
	8	182341011	Laboratory Practice of Instrumental Analysis	1	Instrumental Chemistry Analysis
	9	182341111	Laboratory Practice of Pharmacology	1	Pharmacology
	10	182341211	Laboratory Practice of Phytochemistry	1	Phytochemicals I
	11	182341320	Structure and activity of the drug	2	Medical Chemistry
	12	182350320	Akhlaq	2	
	13	182380100	Fiqih Dakwah	0	
	Total			21	

SEMESTER V	1	182350120	Pharmacotherapy III	2	Pharmacology
	2	182360320	Pharmacoepidemiology	2	
	3	182350420	Formulation & Technology of Sterile Dosage Forms	2	Microbiology
	4	182350520	Prescription II *	2	
	5	182350620	National Drug Policy	2	
	6	182340820	Pharmacy Management		
	7	182350711	Laboratory Practice of Biopharmaceutics	1	Biopharmaceutics
	8	182350811	Laboratory Practice of Formulation & Technology of Liquid and Semi Solid Dosage Forms	1	Formulation & Technology of Liquid and Semi Solid Dosage Forms
	9	182350911	Laboratory Practice of Prescription *	1	Pharmaceutics
	10	182351020	Drug Delivery System	2	Biopharmaceutics
	11	182351120	Drug Stability	2	Physical Pharmacy
	12		Elective I	2	
	Total			21	
SEMESTER VI	1	182360120	Food and Cosmetics Drug Analysis *	2	Instrumental Chemistry Analysis
	2	182360220	Evidence Based Medicines and Biostatistics	2	Pharmacology
	3	182360320	Pharmacoepidemiology	2	Pharmacology
	4	182360420	Farmakoterapi IV	2	Pharmacology
	5	182360520	Industrial Pharmacy *	2	
	6	182361011	Development of Traditional Medicines Practicum	1	Laboratory Practice of Phytochemistry
	7	182360720	Laboratory Practice of Formulation & Technology of sterile Dosage Forms	2	Phytochemicals II
	8	182360811	Laboratory Practice of Basic Communication, Information, and Education	1	Sterile FTS
	9	182360911	Laboratory Practice of Development of Traditional Medicine	1	Laboratory Practice of Phytochemistry
	10	182361120	Thesis I	2	Passed 100 credits
	11	182370320	Islam Interdisciplinary		
	12		Elective II	2	
	13		Elective III	2	
	Total			21	

SEMESTER VII	1	182370511	Pharmaceutical care	2	Pharmacotherapy I
	2	182350220	Hospital and Pharmacy	2	
	3	182370120	Interprofessional Education for Pharmacy	2	
	4	182370411	Laboratory Practice of Drugs, Foods & Cosmetics Analysis	1	Instrumental Chemistry Analysis
	5	182370511	Laboratory Practice of Pharmaceutical Care	1	
	6	182370611	Internship	1	
	7		Elective IV	2	
	8		Elective V	2	
	Total			13	
SEMESTER VIII	1	182380244	Field Study Service	4	passed 120 min credits, passed 3 certification courses, GPA > 2.0, passed Al-Quran Reading Test
	2	182380340	Thesis II	4	Passed 100 credits
	Total			8	

Information :

*) Prerequisite subject, minimum passing grade C

2. **Elective Subjects**, must be taken by students according to their interests, can be seen in table 4

Table 4. Elective subject must be taken by students according to their interests.

Sem	No	Kode	Subjects	Credits	Pre Req
ODD SEMESTER	1	182351220	Antibiotics and resistance	2	Pharmacotherapy II
	2	182351320	Structure elucidation	2	Organic Chemistry I
	3	182351420	Forensic Pharmacy	2	Toxicology
	4	182351520	Phytotherapy	2	Pharmacognition
	5	182351620	Histopathology	2	Toxicology
	6	182351720	Halal Product	2	Chemical instrumental analysis
	7	182351820	Computational Chemistry	2	Organic Chemistry II
	8	182351920	Cosmetology		
	9	182352020	Handling and Packaging Raw Materials	2	Pharmaceutical Industry
	10	182352120	Product Development and Excipients	2	Pharmaceutical Industry
	11	182352220	Prophetic Medicine	2	Pharmacognition
	12	182352320	Pharmacy Radio	2	
EVEN SEMESTER	1	182361220	Biotechnology		
	2	182361320	Pharmacogenetics	2	Cell and molecular

					biology
3	182361420	Immunopharmacology		2	Cell and molecular biology
4	182361520	Cancer and Carcinogenesis		2	Cell and molecular biology
5	182361620	Applied Computer		2	
6	182361720	Drug discovery		2	Development of Traditional Medicine
7	182361820	Veterinary Medicine		2	Pharmacology
8	182361920	Product Knowledge		2	Pharmaceutical Industry
9	182362020	Free radicals and oxidative stress		2	Phytochemicals II
10	182362120	Drug Synthesis		2	
11	182362220	Validation		2	Pharmaceutical Industry

D. Academic leave and academic active

1. Academic leave

- a. Students are allowed to apply for academic leave after attending one semester of study
- b. The students may apply for academic leave at most four semesters while studying at UAD.
- c. Academic leave may be granted as much as two consecutive semesters.
- d. Students in the final project are not allowed to have academic leave.
- e. The students may apply for academic leave by filling out an application letter in Academic and Admission Bureau (BAA). Letter addressed to the rector c.q. Head of BAA. The application letter is submitted at the BAA with proof of administrative requirements such as financial arrears, borrowing books or laboratory equipment.
- f. The Head of the BAA on behalf rector issued the academic leave permission letter to the vice-rector and dean. Te academic leave permit must be attached to re-register.
- g. Students who take academic leave have the obligation to pay the re-registration fee and tuition fee and do not have the right to participate in academic activities and use the facilities.
- h. The academic leave is not intended in the study period..

2. Academic Active

- a. Students who take academic leave can participate in academic activities again after obtaining official active permission from the Rector in re-Active permit letter and re-registering.
- b. Students may apply for a Re-Active Permit by filling out an application letter in Academic and Admission Bureau (BAA). Application letter to the rector c.q. Head of BAA. The request is submitted by the BAA office with academic leave permit.
- c. The Head of the BAA on behalf of the rector issues a Re-Active Permit with

copies to the vice-rectors and deans.

3. **Passing Out**

- a. Students who do not register for academics until the KRS (study plan) period ends and do not apply for academic leave considered as non-register students in the semester.
- b. Students who do not register still count as a study period subject to administrative fines according to the rules Universitas Ahmad Dahlan.
- c. Students who do not register and fill KRS for two consecutive semesters are declared resigned and subject to passing out.

New students who are not active in the first semester and do not register in the second semester are declared resigned and subject to passing out

CHAPTER IV STUDENT AFFAIRS

A. Admission Mechanism

Admission system in Pharmacy Study Program, Universitas Ahmad Dahlan Yogyakarta is carried out at the university level, under the coordination of the New Student Admissions Committee (PMB UAD). Student acceptance refers to the SOP for New Student Admissions PMB-UAD-01. The selection of new students through 2 systems, non-test admission system (BTT) and written admission test.

1. Non-test Admission System
2. BTT (Non-test Admission System) is an admission system for new student from high school / vocational / Islamic high school graduates or those based on the achievements of prospective students with Non-test Admission System. General requirements for BTT lines are as follows.
 - a. Moslem
 - b. Pass the national examination and school year exams or active students of class XII and are participants of the school and national examination in applicable years
 - c. Meet the performance requirements:
 - 1) has a minimum average report card grade of 7.5 for supporting subjects; 2) study programs (Biology, Mathematics, Chemistry) in semesters 3, 4, 5
 - 2) Have an average UN score or equivalent, a minimum of 7 (seven), without a scale of 5.5 (five points five)
 - 3) Submit legalized copies of the files in point 3.
 - 4) Attach a health certificate and no color blindness from the doctor (may follow)
 - 5) Participants are Indonesian citizens or foreigners who have a permit from the Directorate General of Higher Education Ministry of National Education
3. Written test admission system
The Written test admission system is the admission system for new students of high school / vocational / Islamic high school graduates or equivalent who determines graduation based on test results. Requirements for Registration of the Written test admission system as follows.
 - a. Graduated from high school / vocational school / Islamic high school/equivalent or national exam participants.
 - b. Documents Required:
 - 1) Copy of legalized high school / vocational / MA diploma or equivalent, or certificate of graduation from the UN, or a certificate of students taking the national

examination.

- 2) Latest color photograph 3 x 4 cm, 2 sheets.
- 3) Must choose 2 (two) different study programs, in the Natural Science / Social Studies / Mix-studies group
- 4) Prospective international students must have a permit from the Directorate General of Higher Education of the Ministry of Education and Culture and hold a certificate of Indonesian language courses/training.

The admission of new students of Pharmacy Study Program is carried out through 2 systems. Non-test Admission System (BTT) and Written test admission system. The admissions are divided into several waves. Non-test Admission System (BTT) has several criteria taken into consideration including chemical, mathematical and biological grades, being regional representatives and national examination grades. In the written test admission system, the new students must be able to go beyond the passing grade ie chemistry, mathematics and biology grade must not be 1, and the chemical grade must be 3. This mechanism is implemented to get high-quality students. The admission system uses an online system. A flowchart of the admission process is presented in the following figure.



Figure 2. Flow Chart of Admissions

B. Facilities and supports

1. Scholarships

Pharmacy Study Program, Universitas Ahmad Dahlan provides scholarship opportunities for students who come from families with lower middle income. Scholarships available are Improved Academic Achievement (PPA), Student Learning Assistance (BBM) from the Ministry of National Education, Student Scholarships from BRI, BSM and the Family of pharmacy Alumni of Ahmad Dahlan (KAFADA).

2. Campus Orientation

P2K (campus orientation) is a student program held at the university level by BIMAWA (Bureau of Student Affairs and Alumni) at the beginning of semester 1 after students register. This program is an orientation towards the campus environment both from the lecture system and student organizations. The P2K program is carried out at the university level for orientation of the academic system and student level, the faculty and study program level. This P2K program is very helpful for students to facilitate further studies, especially during the transition from previous levels of education

C. Student Service

1. Academic tutorial assistance

Tutorial assistance to students in academic affairs, students are guided by a lecturer to provide services to students in determining the study load every semester and to help overcome academic problems. Students consult to determine the load and type of subjects according to their abilities. Students can get information about scholarships both inside and outside the country. Students get an overview of the industries, studies, and research obtained from sharing with their lecturers. Students can be more innovative in making PKM (student creativity program) with the aim of being able to excel both nationally and internationally. Consultation to determine the title and material in making the Student Creativity Program.

2. Career information and guidance

Career information and guidance is carried out at the faculty and university level. At the university level, it is conducted by the Career Development Center. Vacancies information from users is conveyed to alumni through the bulletin board media, alumni mailing list, Facebook, social media (pharmaceutical community on facebook, BBM group), website ffarmasi.uad.ac.id. and apoteker.uad.ac.id. Students can search for information via the internet through terminals on campus. Recruitment was carried out at the Faculties of the agencies such as Ferron Pharmaceutical, Pharos, Dexa Group, Viva Generic and Bernofarm. PT. Gamelotf Indonesia, Pt. Astra International Tso-Auto 2000, Pt. Kawan Lama Sejahtera, Pt. Ifars Pharmaceutical, Pt. Sumber Alfaria Trijaya (Alfamart), Pt. Bank Mega Pt. Sumberdaya Dian Mandiri, Pt. Asuransi Raya, Pt. Biznet, Bank Cimb Niaga, Erlangga Publisher, Bank Danamon Indonesia Tbk, Bank Btpn, Mazadeco (Exporter), Global Outsorching Services, Personnel Outsourcing (Persada), Pertiwi Agung (Landson) and Bri Syariah Syariah Yogyakarta.

3. Personal and social counseling

Guidance and counseling in person is carried out by the lecture. The lecturer listens to information and provides input to solve the problems of students, such as family problems and personal problems of students. If the students are unable to solve the problems, the University has provided consultation guidance facilities under the management of a psychologist from the Faculty of Psychology. Pharmacy Study Program provides health services for students through the health polyclinic and Universitas Ahmad Dahlan Pharmacy. Campus polyclinics located in Campus I, II, and III. Provide a general practitioner with medicine. Universitas Ahmad Dahlan also has a 'UAD' Pharmacy providing quality drugs to improve the health status of students, and health information, providing medicine for KKN (community service) activities, checking laboratory data (blood sugar, cholesterol, uric acid, and blood pressure), health insurance through the Dana Sehat Muhammadiyah, PKU Muhammadiyah Hospital in Yogyakarta, Jl. K.H.A. Dahlan Yogyakarta. Life Insurance for student in collaboration with Jasa Raharja Insurance and managed by UAD Treasurers. The implementation of UAD Healthy Funds for UAD Students is stipulated in Circular Letter WR 3 No.III / 006 / SE / III / 2010. PIO (Drug Information Center) is managed by lecturers with clinical pharmacy expertise. Drug information services to students. The Pharmacy Study Program provides medicine in a medicine room located in the Integrated Laboratory. The medicine room is also used to improve the communication skills of undergraduate Pharmacy Study Program students.

4. Religious/spiritual assistance

The PERSADA Student Dormitory (Ahmad Dahlan Student Islamic Dormitory) is provided for UAD students, built with the assistance of the Ministry of Public Housing of the Republic of Indonesia through the Rusunawa scheme located in Tamanan Village, Banguntapan District, Bantul Regency as part of campus development. PERSADA was built on an area of 2.1 hectares, consisting of one twin building block with a total floor area of 2,568 m². Activities in PERSADA are carried out coaching and mentoring to students on a regular basis including English language courses, Arabic language, and Islamic activities.

5. Guest Lecture

The inaugural lecture and public lecture are expected to provide scientific insights and improve the quality of students according to the field of science.

6. Softskill training

Soft skills training can provide insights and skills related to organizational leadership and management.

7. TOEFL Service

The Pharmacy Study Program has the policy to improve students' English proficiency with requirements for TOEFL like scores > 400. These scores must be fulfilled as requirements for students to graduate. The test can be carried out at the Ahmad Dahlan Language Center with the aim of a standardized TOEFL score. The TOEFL score requirements are intended to improve the quality of graduates. This is important for students in global communication.

D. Student Activities

1. Development Of Students

In the efforts to build student character, increase insight and skills or soft skills of Pharmacy Study Program students. The study program provides opportunities for students in several activities. The activities for the Pharmacy study program are as follows.

- a. Reasoning Sector; Pharmatech (Pharmacy Student Study Club), ISMAFARSI (Association of Indonesian Pharmacy Student Senates), JMKI (Indonesian Health Student Network), Thesis and Statistics Writing Training (SPSS), PKM Training, LKTI, LKTM and Comparative Study of Pharmacy BEM.
- b. Sports Sector: SEFARUAD, BAMAFA, Badminton Club, UAD Field Tennis, Taekwondo, Pencak Silat of Muhammadiyah Men / Women, UAD Volleyball
- c. Communication Sector; DECO Pharmacy, Drug Counseling Contest, Speech Contest
- d. Islamic Activities; Ramadhan Activities on Campus (RDK), Idul Qurban Activities, Regular recitation
- e. Community service; Community Service is carried out in tWuluh, Purwodadi, Tepus Gunungkidult, JMKI conducts routine social service and charity work at the Amanah Batul Orphanage, PIO UAD together with BEM and ISMAFARMASI drug counseling, PIO UAD together with LPM and students conduct health promotion to community
- f. Arts; Music Group
- g. Entrepreneurship Sector; Faculty of Pharmacy 'Honesty' Canteen, Entrepreneurship Training

2. Autonomous Organization (Ortom) Of Muhammadiyah

Muhammadiyah's Autonomous Organizations in UAD are the Muhammadiyah Student Association (IMM), Tapak Suci Putra Muhammadiyah and Hizbul Wathan (HW).

- a. IMM (Muham-madiyah Student Association) Korkom UAD has a functional non-structural aspirational relationship with UAD board.
- b. Since the UAD Student Congress in 1999 the Putra Tapak Suci UKM Muhammadiyah UAD became Muhammadiyah Autonomous Organization (ORTOM) as the Muhammadiyah Student Association (IMM). Korkom UAD whose guidance is the responsibility of the Rector / Board of UAD.
- c. Other organizations, including: University DPM, University BEM, Faculty DPM, Faculty BEM, and HMPS (Study Program Student Association).

3. Involvement Of Students In Various Relevant Commissions

In efforts to improve the relevant abilities of the graduates, Pharmacy Study Program provides opportunities for students through BEM to coordinate the activities of ISMAFARSI (Association of Indonesian Pharmacy Student Senates) and JMKI (Indonesian Health Student Network). Universitas Ahmad Dahlan Pharmacy students play an active role in ISMAFARSI on national scale. In 2011 the JMKI commissariat of the

UAD Pharmacy Study Program conducted a Managerial Leadership Training activity for all JMKI members throughout Indonesia. In 2012, Pharmacy Study Program conducted the JMKI commissariat gathering forum throughout Indonesia. In 2013 Pharmacy Study Program conducted activities to share scientific developments between JMKI commissariat in Indonesia

In community service, lecturers involve students to actively participate in health promotion. Students act as one of the assessors of lecturers' performance in education and teaching by filling out a questionnaire distributed at the end of each teaching and learning activity. Student assessment results are used as one of the points of the Lecturer Performance Index and as an evaluation of lecturer performance. Students are involved to improve the performance and policies of the academic community through the suggestion box and the PTPP form (request for preventive and corrective actions). In addition, students are also involved in every scientific activity of study programs (seminars, workshops, workshops), anniversary committee and religious holiday activities, LO in comparative study activities or visits from other universities, the Pharmacy Academy and from high school as well as the vocational school.

CHAPTER V

FACILITIES AND INFRASTRUCTURE

A. Facilities

The facilities mean to maintain student lecturer interaction for the learning process. This can be seen from the availability of wifi on campuses, the library with the latest references and discussion places and e-journals from various sites, the discussion places in the library have internet access facilities for students and lecturer to discuss. The lecturers' blogs are also able to increase interaction between lecturers and students. Facilities to maintain student lecturer interaction in academic activities are as follow:

1. Books
2. Accredited national journal
3. International journal
4. Prosiding
5. Thesis
6. Dissertation

B. Infrastructure

Lecture rooms of the Faculty of Pharmacy are generally good and adequate. The lecture room has air conditioning and has complete learning infrastructure, such as computers, LCD projectors, loudspeakers and other facilities needed in the lecture room. The use of lecture rooms is managed by Room Management System (SIMERU), the utilization of lecture rooms becomes more efficient with SIMERU.

Libraries are available on three campuses. The physical libraries are on campus 1, 2, and 3. The collection of books, journals related to the field of science, books, and journals has very good quality. Every year the library has a new collection of books. The library also has a collection of journals, bachelor and master thesis, and dissertations with good quality and quantity. UAD also has access to online journals such as Ebscohost and Proquest. The library management facilitates the students and lecturers to access the book catalogs at www.digilib.uad.ac.id. Lecturers try to motivate students to actively utilize the library to develop insights related to scientific fields.

Computer facilities, supporting learning and research are in good condition. To support learning and research, rooms have the facilities to support lecturers' academic activities. Every room has a computer/laptop, internet, and LCD. In addition, to support the learning activities of the faculty, UAD has laboratories and studios for activities relevant to each study program. In addition, computer facilities connected to the internet are also provided with computers are available for the students.

Supporting facilities in UAD are available such as sports facilities, student activity unit rooms, polyclinics, mosques, and counseling rooms. The infrastructure is in good condition but still needs upgrades to achieve the ideal condition.

The pharmacy faculty infrastructure list is as follows.

1. Lecture rooms with sound facilities and LCD projectors
2. Room for closed oral examination
3. Room for open oral examination
4. Administrative room
5. Hotspot area (Wi-Fi)
6. PIO
7. Auditorium
8. Laboratories:
 - a. Biology Laboratory
 - b. Pharmacology and Biopharmaceutical Laboratory
 - c. Pharmaceutics and Drug Prescription Laboratory
 - d. Formulation and Technology for Solid, Liquid and Semi-Solid and Sterile preparations laboratory
 - e. Pharmacognosy-Phytochemical Laboratory
 - f. Organic Chemistry, Biochemistry and Basic Chemistry laboratory
 - g. Analysis Chemistry Laboratory
 - h. Microbiology Laboratory
 - i. Computer laboratory
 - j. Research Laboratory
 - k. Animal Laboratory
 - l. Language Lab (Language Training Center)
9. Library.

C. Information Systems

Table 5. Information System and The Description

No	Information System	URL	Description
1	SI Penerimaan Mahasiswa Baru (admission)	http://pmb.uad.ac.id http://sipenmaru.uad.ac.id http://pmb-online.uad.ac.id	system for admission publication and admission data processing
2	SI SPP (tuition fee)	http://spp.uad.ac.id	System for recording student tuition fee payment, this system is integrated to academic system
3	SI Akademik (academics)	http://sia.uad.ac.id:8080	System for student academic data processing
4	Portal Akademik (academic portal)	http://portal.uad.ac.id	System for students to access online study result card (KHS), online study plan (KRS) as well to monitor the progress of student studies

No	Information System	URL	Description
5	SI Perpustakaan (library system)	http://simpus.uad.ac.id	The system for managing library data both library data collection and circulation.
6	Digilib	http://digilib.uad.ac.id	The system of online library catalog; connected to Yogyakarta regional library system
7	Situs Web UAD (UAD official web)	http://www.uad.ac.id	System for published general information of UAD
8	Faculty website:	http://ffarmasi.uad.ac.id	standard format website, article updates are still limited

CHAPTER VI

RESEARCH AND COMMUNITY SERVICE

A. Research & Publication

1. Research

In conducting research, it not only considers aspects of quantity but also aspects of the quality and relevance of research in the Pharmacy. Study programs provide direction and motivation so for the lecturers to conduct research relevant to their area of expertise. The research direction is in the Research Master Plan (RIP) 2013-2017. The RIP was prepared by involving all branches of science and then University deliver it to the study program meeting to formulate the research policy. The research in UAD is under LPP (Institute of Research and Development). Pharmacy Study Program stipulates the obligation of each lecturer to conduct research and publication at least 1x per year.

The acquisition of research funds by UAD Pharmacy lecturers includes: internal funding from UAD, DIKTI, Kopertis, Ministry of Research and Technology, and Ministry of Health. Sources of funds from abroad which are UAD Pharmacy partner agencies include: Groningen University, Rangsit University, and the University of Hingkong. Every year UAD provides research funding which includes: self-study research, independent research, and institutional competitive research.

Research activities are not just for lecturers, but also students. Many students are involved in lecturers' research activities, especially as enumerators whose job is to help collect laboratory data.

The research programs are routine agenda organized by the university through LPP. The university guarantees the sustainability of the lecturers' research. In order to improve the quality of research, Pharmacy Study Program also arranges regular workshops on research methodology and incubation of writing research proposals. To ensure the quality of research, Pharmacy Study Program also monitors and evaluates the progress of research implementation. Lecturers are required to present their research results in front of reviewers and other lecturers to obtain feedback.

2. Scientific works

Pharmacy lecturers' scientific works are in the form of proceedings, national and international journals, and ISBN books.

B. Community Service

The community service activities are supported by internal UAD through financial assistance under the coordination of the UAD LPM (Institute of Community Service). In addition, there is also assistance from external UAD, for example DIKTI, Kopertis, and Private. UAD Pharmacy lecturers also contribute in the context of institutional and community

development. Various community service activities are carried out on various parties, both educational institutions, government, community organizations, and the general public. Community service activities are also coordinated by the Faculty PIO. Community service activities involve lecturers, both individually and in groups, as well as students. The PPM KKN Grant Program is the dedication of lecturers and students.

CHAPTER VII

MONITORING AND EVALUATION

A. Monitoring

Curriculum evaluations are carried out through a curriculum review mechanism with a comprehensive curriculum review and a review of subject material. The Pharmacy study program has conducted several curriculum reviews. The last curriculum review was conducted in 2011-2012 on the 2007 curriculum and resulted in a 2013 curriculum effective in the odd semester of 2013/2014. Curriculum evaluations are carried out through a curriculum review mechanism with a comprehensive curriculum review and a review of subject material. The Pharmacy study program has conducted several curriculum reviews. The last curriculum review was conducted in 2011-2012 on the 2007 curriculum and resulted in a 2013 curriculum effective in the odd semester of 2013/2014.

B. Evaluation

1. Academic organization evaluation method
 - a. Periodic self-evaluation,
 - b. Internal academic quality audit by BPM-UAD,
 - c. Student feedback,
 - d. Tracking studies involving alumni users/employers .
2. Improving The Quality Of Learning Process:
 - a. Provision of learning process standards,
 - b. Development of staff quality through degree and non-degree education,
 - c. Making learning plans (RAPS), modules and other teaching materials,
 - d. Provision and utilization of ICT.
 - e. Evaluation of lecturer assessments during learning by students at the end of the semester