

# ACADEMIC GUIDANCE

## DOCTORAL PROGRAM IN PHARMACEUTICAL SCIENCES



### FACULTY OF PHARMACY

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2021



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UNIVERSITAS AIRLANGGA  
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## INTRODUCTION

Doctoral Program of Pharmaceutical Sciences Study Program (*PDPSIF*) of Faculty of Pharmacy of Universitas Airlangga has been organized since 2010, based on the Decree of The Rector of Universitas Airlangga (UNAIR) Number 1476/H3/KR/2009. Currently, the study program is led by Prof. Dr. apt. Djoko Agus Purwanto, M.Si. based on the Decree of The Rector of UNAIR Number 1046/UN3/2020. This program was originally one of the courses under the management of Postgraduate Program of UNAIR. Next, based on the Regulation of The Rector of UNAIR Number 13/H3/PR/2011 and the Decree of The Rector of UNAIR Number 1947/H3/KR/2011, the program has become one of study programs under the management of Faculty of Pharmacy UNAIR because of its monodisciplinary nature. *PDPSIF* organization permit under Faculty of Pharmacy of UNAIR was based on the Decree of The Rector of UNAIR Number 7426/H3/KR/2012, which is re-extended based on the Decree of Rector of UNAIR Number 1/UN3/KR/2015 and the Decree of The Rector of UNAIR Number 35/UN3/2018. Initially the education process in *PDPSIF* is organized in course-work base, and since academic year of 2016/2017, it is later changed into research base.

## VISION, MISSIONS, AND GOALS OF STUDY PROGRAM

Vision, Missions, and Goals of *PDPSIF* are the explanation of the Vision, Missions, and Goals of Universitas Airlangga and Faculty of Pharmacy, adjusted to the study program, and formulated in academic guidance and curriculum of the study program.

### A. Vision

To be an innovative and reputable study program, both at national and international levels, a pioneer in developing pharmaceutical sciences and technology and clinical community pharmacy, based on religious morality.

### B. Missions

1. Organizing education of Doctoral Program of Pharmaceutical Sciences to develop pharmaceutical sciences and technology and clinical community pharmacy through research resulting in creative, original, and proven work.
2. Organizing innovative basic and applied research in pharmaceutical field to support education development and community service, and to improve added value of natural resources of Indonesia.
3. Bestowing skills in pharmaceutical field to society, as moral and intellectual responsibility for empowerment, health and life quality improvement.
4. Improving cooperation to support organization of *Tri Dharma Perguruan Tinggi (3-observance of Higher Education)* which are oriented to quality improvement and collaboration skills both nationally and internationally.



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### C. Goals

1. Producing graduates who have high-level of academic skills, are creative, dynamic, professional, and able to develop pharmaceutical sciences and technology and clinical community pharmacy, as well as possessing excellence, both nationally and internationally, based on religious morality.
2. Producing graduates who are able to develop concepts of knowledge and new technology in work in the field of pharmaceutical sciences and technology and clinical community pharmacy through research with comprehensive knowledge approach; as well as able to manage, lead, and develop research programs.
3. Producing innovative research which supports the development of pharmaceutical sciences and technology and clinical community pharmacy having national and international scales to support education development and community service, and to improve added value of natural resources of Indonesia.
4. Producing cooperation to organize *Tri Dharma Perguruan Tinggi (3-observance of Higher Education)* which are oriented to quality improvement and collaboration skills both nationally and internationally.

## GRADUATE PROFILE AND COMPETENCE

### A. Graduate Profiles

Graduates of Doctoral Program of Pharmaceutical Sciences Study Program have profiles of 1) *researcher*, 2) *innovator*, 3) *leader*, and 4) *teacher*.

#### 1. **Researcher**

Graduates must be able to develop new knowledge, technology, or arts in pharmaceutical field through research, and to solve problems in the field of pharmaceutical sciences and technology or clinical community pharmacy through inter-, multi-, and/or transdisciplinary approach.

#### 2. **Innovator**

Graduates must be able to produce innovative, original, and proven research based on scientific principles supporting the development of pharmaceutical sciences and technology and clinical community pharmacy.

#### 3. **Leader**

Graduates must be able to manage, lead, and develop research concerning the field of pharmaceutical sciences and technology and clinical community pharmacy.

#### 4. **Teacher**

Graduates must be able to disseminate the results of research for the sake of developing knowledge and improving human benefit.

### B. Graduate Competence

What is meant by competence is a set of smart actions, full of responsibility owned by someone as prerequisites to be regarded by society to be capable of implementing tasks in a specific field of jobs (*Kepmendiknas No. 045/U/2002*).

According to *Permenristekdikti No. 44 Of 2015*, Education National Standards consist of standards of graduate competence, learning materials, learning process, learning assessment, lecturers, and academic staff, learning facilities and infrastructures, learning management, and learning finance which become the reference in arranging, organizing, and evaluating curriculum.



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**Graduate competence standards** are minimum criteria concerning qualifications of graduate competence including attitudes, knowledge, and skills which are stated in the formula of graduate learning outcomes.

**Attitudes** are correct and cultured behaviours as a result of internalization and actualization of values and norms reflected in spiritual and social life through learning, student apprenticeship experience, research and/or community service related to learning.

**Knowledge** is mastery of concepts, theories, methods, and/or philosophies in the field of pharmaceutical sciences systematically obtained from reasoning in the process of learning, student apprenticeship experience, research and/or community service related to learning.

**Skills** are abilities to perform work methods by using concepts, theories, methods, materials, and/or instruments obtained from learning, student apprenticeship experience, research and/or community service related to learning. The skills include **general skills** as general work abilities that must be owned by each graduate in order to guarantee equality of graduate skills in accordance with program levels and types of higher education; and **special skills** as specific work abilities that must be owned by each graduate according to the scientific field of study program. Minimum depth and width of learning outcomes of graduates of a doctoral program should reach the mastery of the philosophical knowledge of the program under study and certain skills.

**Graduate competence standards** are manifested in the formula of graduate learning outcomes which is used as the main reference of developing standards of graduate competence, learning materials, learning process, learning assessment, lecturers, and academic staff, learning facilities and infrastructures, learning management, and learning finance.

*PDPSIF* is expected to produce graduates who are dignified, having superior work culture based on spiritual, emotional, and intellectual quotients.

Formula of *PDPSIF* graduates is designed based on descriptions of graduates' learning outcomes of Indonesia National Qualifications Framework (*Kerangka Kualifikasi Nasional Indonesia*, hereinafter *KKNI*). According to Regulation of The President of The Republic Indonesia Number 8 Of 2012 concerning *KKNI* article 5 section h, graduates of a Doctoral program have the highest qualifications namely grade 9 with the following descriptions:

- a. Capable of **cultivating** new knowledge, technology, and/or art within her/his expertise or professional domain through research; producing creative, original, and reputable creations.
- b. Capable of **solving problems** of science, technology, and/or art within her/his expertise through inter-, multi-, and transdisciplinary approach.
- c. Capable of **organizing, leading, and cultivating research** and development benefitting sciences and human civilizations as well **obtaining** national and international **recognition**.

#### **Formula of Attitudes of Doctoral Education Program**

Every graduate of doctoral education program must have the following **attitudes**:

- a. being faithful to The Only One God and capable of demonstrating religious attitudes;
- b. upholding humanity values in running responsibilities based on religion, morality, and ethics;
- c. contributing to improving life quality of society, nation, and country, and civilization improvement based on *Pancasila*;
- d. playing a role as citizens who feel proud and patriotic, having nationalism and responsibility to the country and nation;
- e. respecting diversity of culture, vision, religion, and belief, as well as other people's opinion or original invention;
- f. cooperating and having social sensitivity as well as caring for society and environment;
- g. obeying law and being disciplined in social and national life;
- h. internalizing academic values, norms, and ethics;



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- i. demonstrating responsible behaviour toward work in his/her field of expertise independently; and internalizing spirit of independence, endeavour, and entrepreneurship.

#### **Formula of General Skills of Doctoral Education Program**

Graduates of Doctoral Program must have **general skills** as follows:

- a. capable of finding or cultivating new scientific theory/conception/idea, contributing to development and practice of science and/or technology paying attention to and applying humanity values in their field of expertise, by producing scientific research based on scientific methodology, as well as logical, critical, systematic, and creative thought;
- b. capable of arranging inter-, multi-, or transdisciplinary research, including theoretical study and/or experiment in the field of expertise, technology, art, and innovation manifested as dissertation and articles published in reputed international scientific journals;
- c. capable of choosing effective, latest, most advanced research, and benefitting human civilization through inter-, multi-, or transdisciplinary approach, in order to cultivate and/or produce problem solving in the field of study, technology, art, or society, based on the results of study on availability of both internal and external resources;
- d. capable of developing research road map with inter-, multi-, or transdisciplinary approach, based on study of the main targets and their constellations in a wider range of targets;
- e. capable of arranging argument and solution of science, technology or art based on critical vision of facts, concepts, principles, or theories which can be scientifically and academically ethically proven as well as communicating them on social media or to society directly;
- f. capable of demonstrating academic leadership in managing, cultivating, and maintaining resources and organizations under supervision;
- g. capable of managing, including storing, auditing, saving, and restoring data and information of research findings under supervision;
- h. capable of developing and maintaining collegial and fellowship within internal environment or through a network of cooperation with external research community.

#### **Formula of Specific Skills of Doctoral Program of Pharmaceutical Sciences Study program**

Graduates of *PDPSIF* must have **specific skills** as follows:

- a. capable of finding or cultivating new scientific theory/conception/idea related to pharmaceutical products or pharmaceutical care;
  - b. capable of producing innovative, original, and proven research result, based on scientific principles supporting science development in the field of pharmaceutical sciences and technology or clinical community pharmacy, in the form of scientific publications in patented or accredited scientific journals, having both national and international recognition;
  - c. capable of solving complex problems in the field of pharmaceutical sciences and technology or clinical community pharmacy through comprehensive research applying pharmaceutical theories and other related advanced theories yielding results benefitting the society;
  - d. capable of independently leading group work serving to solve complex pharmaceutical problems or managing research laboratory related to pharmaceutical field;
  - e. capable of disseminating research results for cultivating sciences and improving human benefit;
  - f. capable of network building in cultivating research in pharmaceutical field as well as applying research results for improving pharmaceutical sciences.
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### Formula of Knowledge of Doctoral Program of Pharmaceutical Sciences Study program

Graduates of *PDPSIF* must have **knowledge** as follows:

- a. capable of mastering philosophies, concepts, and theories in the field of pharmaceutical sciences and technology or complex clinical community pharmacy;
- b. capable of in-depth investigating, cultivating or conducting extensive new/original sciences and technology related to the sciences of pharmaceutical sciences and technology or clinical community pharmacy through learning process and research activities;
- c. capable of cultivating concepts of new/original sciences and technology related to pharmaceutical products or pharmaceutical care through learning process and research activities;
- d. capable of cultivating new/original concepts of sciences and technology related to pharmaceutical quality assurance or pharmaceutical/health management system through learning process and research activities.

### MANAGEMENT OF STUDY PROGRAM

Faculty of Pharmacy of UNAIR manages 5 (five) study programs, namely Bachelor Program of Pharmacy, Apothecary Profession, Master of Pharmaceutical Sciences, Master of Clinical Pharmacy, and Doctor of Pharmaceutical Sciences. *PDPSIF* management is done by The Heads of The Faculty of Pharmacy with its organizational structure consisting of Dean, Vice Dean of Academic and Student Affairs, Vice Dean of General Administration and Finance, and Vice Dean of Cooperation. In doing the managing functions of Doctor Program, The Heads of The Faculty are assisted by *PDPSIF* managers, Heads of Departments, Group of Sciences Fields (*KBK*) and other work units.

*PDPSIF* managers consist of:

1. Study Program Coordinator (*Koordinator Program Studi* hereinafter *KPS*), serving to lead the organization of academic, general administration, and finance activities.
2. Study Program Deputy (*Sekretaris Program Studi* hereinafter *SPS*), serving to assist *KPS* in organizing academic, general administration, and finance activities.

*PDPSIF* is under the Department of Pharmaceutical Sciences as seen in the organizational structure of Faculty of Pharmacy of UNAIR in figure 3.1.

In serving his/her main duties and functions, the Study Program Coordinator is assisted by the Study Program Deputy in controlling the organization of teaching-studying process and is responsible to the Dean. In serving the duties, the Study Program Deputy is assisted by a secretariat staff. The quality assurance of study program is organized by coordinating with Quality Assurance Group (*Gugus Penjamin Mutu* hereinafter *GPM*) of *PDPSIF* and Quality Assurance Unit of Faculty of Pharmacy as well as Quality Assurance Board of UNAIR.

Duties and Authorities of *KPS* include planning, organizing, and evaluating the study program, described as follows:

- (1) being liable for standard assurance of education and smoothness of process of education, research, and community service of the study program
- (2) coordinating academic activities along with the Head of Departments and Group of Sciences Fields (*Kelompok Bidang Keilmuan* hereinafter *KBK*) as well as other work units;
- (3) being liable for curriculum development of the study program;
- (4) being liable for relevance assessment of the curriculum of the study program suited people's needs;
- (5) being liable for smoothness of education process and doing evaluation of learning result and learning process.



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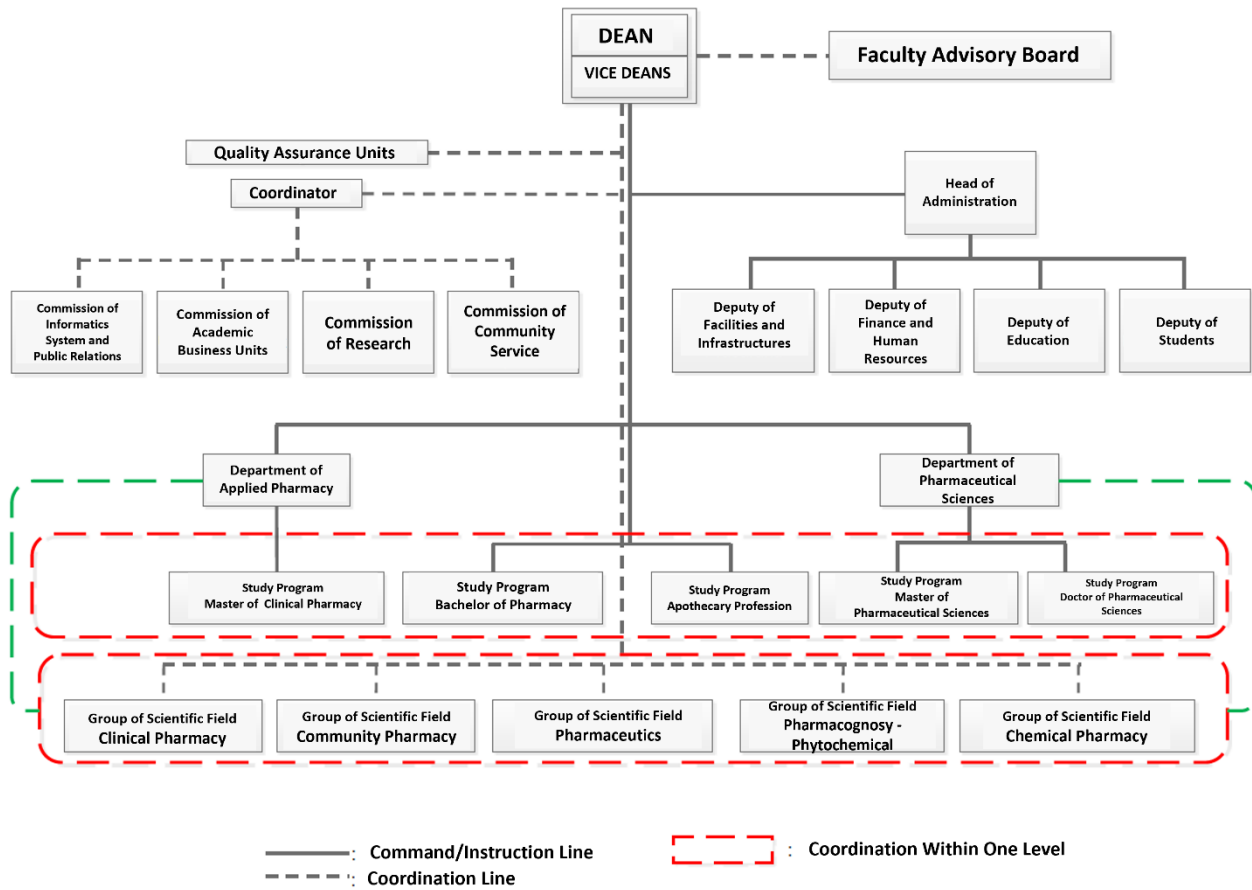


Figure 3.1 Organizational Structure of Faculty of Pharmacy of Universitas Airlangga.





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**ACADEMIC RULES OF DOCTORAL PROGRAM  
OF PHARMACEUTICAL SCIENCES STUDY PROGRAM**

**DECREE**

**DEAN OF FACULTY OF PHARMACY OF UNIVERSITAS AIRLANGGA**

**NUMBER: 168/UN3.1.5/2021**

**concerning:**

**ACADEMIC GUIDELINE**

**DOCTORAL PROGRAM IN PHARMACEUTICAL SCIENCES**

**FACULTY OF PHARMACY OF UNIVERSITAS AIRLANGGA**

**YEAR 2021**

**Concerning:**

1. That Universitas Airlangga aims to produce quality graduates, who are capable of cultivating sciences, technology, humanity, and arts based on religious morals as well as of competing both in national and international levels;
2. That Faculty of Pharmacy of Universitas Airlangga aims to produce graduates who are capable and have willingness to integrate and cultivate sciences and pharmaceutical technology in order to conduct pharmaceutical care; as innovative, creative, and productive scientists having analytical and critical thinking in solving pharmaceutical problems as well as professional pharmaceutical staff-apothecary to improve health and life quality of Indonesian people;
3. That doctoral program education is one of main methods to produce scientists who are capable of cultivating sciences and technology;
4. That the organization of doctoral education program needs to be regulated in The Dean Regulation concerning Education of Doctoral Program of Pharmaceutical Sciences Study Program of Faculty of Pharmacy of Universitas Airlangga;
5. That based on consideration as stated in points a and b, it is necessary to issue The Dean Regulation;
6. That along with the issuance of The Rector Regulation of Universitas Airlangga Number 27 Of 2018 concerning University Academic Guideline, it is necessary to do revision on academic regulations in accordance with the development and the dynamic of education organization of Universitas Airlangga;
7. That based on consideration as stated in item 1 to 4, it is necessary to enact The Dean Decree concerning The Enactment of Academic Regulation of Bachelor of Pharmacy Study Program of Faculty of Pharmacy of Universitas Airlangga.

**Observing:**

1. Government Regulation Number 57 of 1954 concerning The Establishment of Universitas Airlangga in Surabaya as amended by Government Regulation Number 4 Of 1955 concerning Amendment To Government Regulation Number 57 Of 1954.
2. Regulation of The Minister of National Education of The Republic of Indonesia Number 232/U/2000 concerning Guidance on Planning of Higher Education Curriculum and Assesment of University Students Learning Outcomes.



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3. Regulation of The Minister of National Education of The Republic of Indonesia Number 045/U/2002 concerning Education Core Curriculum.
4. The Law of Republic of Indonesia Number 20 Of 2003 concerning National Education System.
5. The Law of Republic of Indonesia Number 14 Of 2005 concerning Teachers and Lecturers.
6. The Law of Republic of Indonesia Number 36 Of 2009 concerning Health.
7. Government Regulation Number 17 Of 2010 concerning Education Management and Organization.
8. The Law of Republic of Indonesia Number 12 Of 2012 concerning Higher Education.
9. Government Regulation Number 8 Of 2012 concerning Indonesia National Qualifications Framework.
10. Regulation of The Rector of Universitas Airlangga Number 4/UN3/PR/2013 concerning Scientific Article Publication.
11. Government Regulation Number 30 Of 2014 concerning The Statute of Universitas Airlangga (State Gazette of The Republic of Indonesia Number 100 Of 2014, Supplement To State Gazette of The Republic Of Indonesia Number 5535).
12. Regulation of The Minister of Education and Culture of The Republic of Indonesia Number 3 Of 2020 concerning National Standards of Higher Education.
13. Decree of The Board of Trustees Number 3/UN3.MWA/K/2020 concerning The Appointment of The Rector of Universitas Airlangga of 2020-2025 period.
14. Decree of The Rector of Universitas Airlangga Number 1476/H3/KR/2009 concerning The Opening of Doctoral Program of Pharmaceutical Sciences Study Program in Postgraduate Program of Universitas Airlangga.
15. Decree of The Rector of Universitas Airlangga Number 1947/H3/KR/2011 concerning The Enactment of Scope of Study program belonging to Monodisciplinary, Interdisciplinary, and Multidisciplinary Categories for The Management of Master and Doctoral Programs.
16. Decree of The Rector of Universitas Airlangga Number 762/UN3/2020 concerning The Appointment of The Dean of The Faculty of Pharmacy of Universitas Airlangga of 2020-2025 period.
17. Regulation of The Rector of Universitas Airlangga Number 27 Of 2016 concerning The Diploma Issuance.
18. Regulation of The Rector of Universitas Airlangga Number 35 Of 2016 concerning The Letter of Statement of Diploma Companion of Universitas Airlangga.
19. Regulation of The Rector of Universitas Airlangga Number 24 Of 2016 concerning The Organization and Work Procedure of Universitas Airlangga.
20. Regulation of The Rector of Universitas Airlangga Number 2 Of 2017 concerning The Obligation of Publication of Scientific Articles of Research Results of Lecturers, Graduate Students, Master Program, Specialist Program, and Doctoral Program Within Universitas Airlangga.
21. Regulation of The Rector of Universitas Airlangga Number 6 Of 2017 concerning The Score Standards of English Language Proficiency Test of Students of Master Program and Doctoral Program of Universitas Airlangga.



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22. Regulation of The Rector of Universitas Airlangga Number 36 Of 2017 concerning The Academic Guideline of Research-Based Doctoral Program of Universitas Airlangga.
23. Regulation of The Rector of Universitas Airlangga Number 29 Of 2018 concerning The Study Evaluation of The Students.
24. Regulation of The Rector of Universitas Airlangga Number 35 Of 2018 concerning Amendment To The Regulation of The Rector of Universitas Airlangga Number 29 Of 2018 concerning The Study Evaluation of The Students.
25. Regulation of The Rector of Universitas Airlangga Number 2 Of 2019 concerning The Amendment To The Regulation of The Rector of Universitas Airlangga Number 6 Of 2017 concerning The Score Standards of English Language Proficiency Test of Students of Master Program and Doctoral Program of Universitas Airlangga.
26. Regulation of The Rector of Universitas Airlangga Number 34 Of 2019 concerning The Code of Conduct of Universitas Airlangga.
27. Regulation of The Rector of Universitas Airlangga Number 9 Of 2020 concerning The Amendment To The Regulation of The Rector of Universitas Airlangga Number 2 Of 2017 concerning The Obligation of Publication of Scientific Articles of Research Results of Lecturers, Graduate Students, Master Program, Specialist Program, and Doctoral Program Within Universitas Airlangga.
28. Regulation of The Rector of Universitas Airlangga Number 11 Of 2020 concerning The Academic Guideline of Universitas Airlangga.

**HAS DECIDED**

**To Enact:**

First

The Academic Guidance of Doctoral Program of Pharmaceutical Sciences Study Program of Faculty of Pharmacy of Universitas Airlangga of 2021 whose script is listed in the attachment of this Regulation becomes an indivisible part.

Second

This decree applies since the enacted date. If any mistake and/or flaws exist in the future, this decree shall be amended as necessary.

Enacted in: Surabaya

On: 1 February 2021

DEAN,

Signed

Prof. Junaidi Khotib, S.Si., M.Kes., Ph.D., Apt.

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CHAPTER I  
GENERAL PROVISIONS

Article 1

This guideline contains descriptions as follows:

1. **University** is Universitas Airlangga.
2. **Rector** is The Rector of Universitas Airlangga
3. **Faculty** is The Faculty of Pharmacy of Universitas Airlangga.
4. **Dean** is The Dean of Faculty of Pharmacy of Universitas Airlangga.
5. **Study Program** is The Doctoral Program of Pharmaceutical Sciences Study program (hereinafter *PDPSIF*).
6. **Doctoral Program** is the highest level of education/doctorate degree aimed to obtain title of Doctor as the title of the highest academic level.
7. **Study Program Coordinator** (*Koordinator Program Studi* hereinafter *KPS*) is the manager of study program being responsible and reporting organizing tasks, including program planning, program organization, and program evaluation to the Dean.
8. **Permanent lecturers** are The Permanent lecturers of Universitas Airlangga having *NIDN/NIDK*, as professional educators and scientists with main duties of transforming, cultivating, and disseminating sciences, technology, and arts through education, research, and community service.
9. **National Lecturer Identification Number** (*Nomor Induk Dosen Nasional* hereinafter *NIDN*) is an identification number issued by the Ministry for lecturers working fulltime and are not currently serving as employees in another administration base unit/another institution.
10. **Special Lecturer Identification Number** (*Nomor Induk Dosen Khusus* hereinafter *NIDK*) is an identification number issued by the Ministry for lecturers/instructors working part time or lecturers working fulltime and currently serving as employees in another administration base unit/another institution and is appointed by the university based on an employment agreement.
11. **Promoter Candidate** is a permanent lecturer of Universitas Airlangga who is assigned to advise a Doctoral Candidate until the Student passes qualification examinations, having a position as a Professor or having a title of Doctor, having a Position as a Head Lector within the past 5 (five) years and has published a minimum of 2 (two) scientific articles in nationally accredited journals and/or international scientific journals with good reputation, or other forms of acknowledged by board of experts enacted by the university senate.
12. **Promoter** is a permanent lecturer of Universitas Airlangga who is assigned to advise a Doctoral Candidate in finishing the study, having a position as a Professor or having a title of Doctor having a Position as a Head Lector within the past 5 (five) years and has published a minimum of 2 (two) scientific articles in nationally accredited journals and/or international scientific journals with good reputation, or other forms of acknowledged by board of experts enacted by the university senate.
13. **Co-Promoter** is a lecturer having a position of a Professor or Professor Emeritus, or having a title of Doctor having a minimum Position of Lector, or non-lecturers/practicians having a title of Doctor, coming from within or outside of Universitas Airlangga assigned as a companion of the Promoter in advising a Doctoral Candidate in finishing the study.



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14. **Consultant** is an expert in specific field of sciences and/or special skills truly required by the student to help plan and organize dissertation according to approval of the Promoter.
  15. **Semester Learning Plan** (*Rencana Pembelajaran Semester* hereinafter *RPS*) is a plan of learning process enacted and developed independently by lecturers or dependently by lecturers within an expertise group of a field of sciences and/or technology in the study program containing learning outcomes of graduate which are required in subject courses.
  16. **Topic Seminar** is a scientific activity done by The Students to present matters related to research topic of dissertation in order to prepare qualification manuscript and dissertation proposal and it must be attended by Promoter Candidate/Promoter/Co-Promoter.
  17. **Periodic Seminar** is a scientific activity done by The Doctoral Candidate to present progress of undergoing research and is periodically conducted for minimum of 4 (four) times per semester and must be attended by Promoter Candidate/Promoter/Co-Promoter.
  18. **Qualification Examination** is a comprehensive examination to obtain a status of Doctoral Candidate.
  19. **Dissertation Proposal Examination** is an examination on manuscript proposal of dissertation research.
  20. **Dissertation Eligibility Examination** is an examination on manuscript proposal of dissertation to be assessed as dissertation.
  21. **Dissertation Final Examination** is a Doctoral examination organized in 2 (two) phases namely Closed Dissertation Examination (Phase 1) and Open Dissertation Examination (Phase 2).
  22. **Closed Dissertation Examination** (Phase 1) is an examination on dissertation manuscript assessed to be eligible to be promoted as *Promovendus/a*.
  23. **Open Dissertation Examination** (Phase 2) is an examination deciding graduation of *Promovendus/a* to be Doctor(s) after deemed to have passed the Closed Dissertation Examination (Phase 1) in an open assembly.
  24. **Examiner Committee** are people assigned by the Decree of the Dean given authority to score in examination(s) or seminar(s).
  25. **Dissertation** is the final academic assignment of learning outcomes and/or in-depth research conducted independently and contains new contribution to advancement of sciences and/or seeks new answers to problems which remain unanswered or questions new things against things considered established in sciences, technology, and arts which is done by the Doctoral Candidate under supervision of the Promoter and Co-Promoter.
  26. **Students of Doctoral Program** are those who are registered and follow the Doctoral academic process in the Faculty/Graduates School of Universitas Airlangga.
  27. **Proposal/dissertation research proposal** is an academic activity planned and arranged according to scientific research principles to be used as research guideline for dissertation.
  28. **Doctoral Candidate** is the status of Students of Doctoral Program in the Faculty/Post Graduate School of Universitas Airlangga deemed to have passed qualification examinations.
  29. **Promovendus/a** is the title for Doctoral Candidate who has passed closed dissertation examination (Phase 1).
  30. **Reputed international scientific journals** are scientific articles published by international scientific journals having indexed by *ISI Knowledge-Thompson Reuter*, *SCOPUS*, or *Microsoft Academic Search*.
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31. **International Scientific Seminar** is a presentation of scientific articles becoming parts of or related to the dissertation conducted by Doctoral Candidate in international scientific forum, either as oral presenter or poster.
32. **Study Plan Form** hereinafter *KRS* is a form containing a list of subjects which will be attended by the students in one semester.
33. **Sit in** is a status for students attending lectures of certain subjects but being unlisted in the list of subjects taking/without taking credits from ongoing subjects.
34. **Matriculation** is an enrichment of sciences field done to cultivate knowledge and skills.
35. **Semester Credit Systems** (hereinafter *SKS*) is a system of organizing education by using semester credit units (*sks*) to state student workload, lecturer workload, learning experience, and load of organizing program.
36. **Semester** is a time unit of activities whose details are managed according to University Academic Calendar.
37. **Semester Credit Units** (*sks*) is time measurement of learning activities borne to students per week per semester in learning process through different forms of learning or recognition unit of the success of students' efforts in doing curricular activities in a study program, as much as 1 hour of lecture/tutorial or 2 hours of practicum, or 4 hours of field work, each of which is accompanied by 1-2 hours of structured activities and 1-2 hours of independent activities.
38. **Curriculum** is a set of planning and setting of learning outcomes of graduates, study materials, process, and assessment used as organizing guideline of study program.
39. **Standard Operating Procedure (SOP)** is a set of standardized written instructions concerning organizing process of organization activities, how and when it should be done, where it should be done, who should do it; all for quality assurance.

## CHAPTER II

### ADMISSION OF STUDENT CANDIDATES

#### Article 2

- (1) Academic requirements for candidates of Students of *PDPSIF* are as follows:
    - a. Having a Master's Degree of Pharmaceutical Sciences/Clinical Pharmacy or graduates of Chemistry, Biology, and Biomedical Sciences, and other related sciences, or special education of pharmacy/health sciences whose curriculum contains thesis.
    - b. Having a GPA of Master's Degree greater than or equal to 3.00 from *BAN-PT/LAM-PTKes*-accredited study programs, except for graduates before the year of 2004.
    - c. Having scientific article(s) published through seminar(s)/magazine(s) relevant to the field of sciences in pursuit of the Doctoral Program.
    - d. Attaching research proposal which is relevant to research plan concept for dissertation research approved by the Promoter Candidate.
    - e. Having passed selection examination.
  - (2) Students with **linear** Master education are the graduates of Master of Pharmaceutical Sciences, Master of Clinical Pharmacy, and Clinical Pharmacy Specialist with a minimum GPA of 3.0 from accredited study
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programs, while Students with **nonlinear** Master education are the graduates of Master of Chemistry, Biology, Biomedical Sciences and other related sciences, or special education of pharmacy/health sciences whose curriculum contains thesis, with a minimum GPA of 3.0 from accredited study programs.

- (3) Student Candidates must comply with administrative requirements as follows:
    - a. obtaining permission from the direct employer for Student Candidates working for an institution;
    - b. obtaining permission from Rector or Head of Institution for Student Candidates working as Lecturers;
    - c. obtaining recommendation from direct employer stating that the recommendee is capable of attending Education of Doctoral Program;
    - d. obtaining recommendation from Promoter/Co-Promoter Candidates stating that the recommendee has scientific integrity and is capable of attending Education of Doctoral Program;
    - e. being sufficiently healthy so that it will not impede the smoothness of learning process in his/her study program (proven by a valid certificate of health from doctor)
  - (4) For foreign Student Candidates, they must comply with admission procedure as follows:
    - a. submitting registration form filled, and signed, and any required attachment;
    - b. applying directly to Universitas Airlangga;
    - c. taking care of visa in The Embassy of The Republic of Indonesia in the place of origin by bringing the letter of acceptance of Universitas Airlangga
    - d. The Education and Culture Attache of the place of origin of student candidates reports item b to The Secretary General and The Director General of Higher Education;
    - e. compliance with other requirements about stay permit for foreigners.
  - (5) Every Student Candidate admitted as a Student must:
    - a. state assurance attending the education of Doctoral Program by registering in the Directorate of Education of Universitas Airlangga according to the set procedure and schedule;
    - b. pay off all educational fees for 1 (one semester).
  - (6) **Before registering**, Student Candidates must intensively contact Promoter Candidate to prepare research proposal plan (pre-proposal) which is relevant to dissertation research plan as one of requirements to register and in order to prepare qualification examination of Doctoral Program.
  - (7) Status/title of *PDPSIF* students:
    - a. Students are those who have passed admission selection.
    - b. Doctoral Candidates are Students who are deemed to have passed qualification examination.
    - c. *Promovendus/a* is the title for Doctoral Candidates who are deemed to have passed closed dissertation examination.
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**CHAPTER III**  
**ACADEMIC ORGANIZATION, CREDITS, AND CURRICULUM**

**Article 3**

- (1) *PDPSIF* education is a structured education, which consists of:
  - a. advanced and specific skills education and independent research;
  - b. adopting Semester Credit System (*SKS*) with the credits measured in semester credit units (*sks*); and
  - c. its activities are carried out through periodic seminars, independent learning, scientific discussions, research, scientific writing and publications, and community services.
- (2) The implementation of *PDPSIF* is carried out in accordance with the university's academic calendar stipulated by the Rector and is further elaborated in the academic schedule of the study program
- (3) The academic calendar and academic schedule referred to section (2) consist of odd semesters and even semesters.

**Article 4**

- (1) Each student or Doctoral Candidate must input his/her study plans into the Study Plan Form (*KRS*) provided by the study program through *Cyber campus* at the designated schedule every semester.
- (2) The study plans as referred to section (1) must be approved by the Promoter Candidate or the Promoter, except for the study plan form at the first semester which is signed by the *KPS*
- (3) Every student or doctoral candidate fills in the Dissertation Workbook during the education process.
- (4) Students or Doctoral Candidates are allowed to propose Requests for Corrective and Preventive Actions (*Permintaan Tindakan Perbaikan dan Pencegahan* hereinafter *PTPP*) in accordance with the procedures regulated in *PP AIMS*.

**Article 5**

- (1) Students graduated from nonlinear Master programs must attend the matriculation program for a minimum of 4 semester credit units (*sks*) and a maximum of 12 semester credit units (*sks*) based on the requirement of dissertation research.
  - (2) The matriculation program is conducted in the form of courses held by the Master of Pharmaceutical Sciences Study Program and Master of Clinical Pharmacy Study Program that are related to the field of dissertation programmed by the student. The credit of each course is 2 (two) or 3 (three) semester credit units (*sks*).
  - (3) The matriculation program can be held through a block system in the first semester.
  - (4) The courses are selected by the student alongside with his/her Promoter Candidate under the approval of the *KPS*
  - (5) The promoter has the authority to direct a doctoral candidate to specialize in a certain field of studies and attend the course in *sit in* of non-semester credit units (*non-sks*) manners if it is necessary.
  - (6) The credits of the Doctoral Program for students graduated from linear and nonlinear Master programs are 44 (forty-four) semester credit units (*sks*) scheduled for 6 semesters. These courses can be completed in less than 6 semesters while the maximum length of study is 14 semesters.
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- (7) The students of the doctoral program must take the *English Language Proficiency Test (ELPT)* held at Universitas Airlangga Language Center and have the *ELPT* score.
- (8) The standard minimum score of *ELPT* for doctoral program students is no less than 500.
- (9) The accepted *ELPT* score is the score obtained during the study period. The score is one of the pre-requirements for the open dissertation examination or doctoral judicium.
- (10) Concerning the attempts that have been made to meet the *ELPT* requirements, in accordance with the Rector Decree Number 2 Of 2019 and considering the limit of study length, The Dean may ask The Director of Academic Affairs Universitas Airlangga regarding the *ELPT* requirement.

**Article 6**

- (1) The curriculum of *PDPSIF* is formulated in accordance with the vision and missions of UNAIR and the Faculty of Pharmacy to produce highly competent graduates based on the needs of the society and the development of science, technology, and arts.
- (2) The formulation and development of the curriculum is conducted through a meeting attended by the heads of faculty, *KPS*, and the lecturers and involves both the internal and external stakeholders. The curriculum is formulated based on the competences of *PDPSIF* graduates.
- (3) The formulated curriculum as referred to section (1) is stipulated by the Decree of the Rector.
- (4) The curriculum review is conducted in accordance with the development of sciences, technology, humanities, and arts in the fields of pharmaceutical sciences and technology and clinical community pharmacy and by considering the length of studies and community needs at least once in five years.
- (5) The mechanism of curriculum formulation and reviews is regulated in specific SOPs.

**Article 7**

- (1) The structure of *PDPSIF* curriculum as described in Table 1 consists of:
    - a. The dissertation components as stated on the academic transcript consist of:
      1. Dissertation Proposal with the credits of 6 semester credit units (*sks*)
      2. Dissertation with the total credits of 24 semester credit units (*sks*), consists of:
        - a) Dissertation Eligibility Examination (7 semester credit units (*sks*));
        - b) Dissertation Closed Examination (Phase I) (14 semester credit units (*sks*)); and
        - c) Dissertation Open Examination (Phase II) (3 semester credit units (*sks*)).
    - b. Non-Dissertation components with the total credits of 14 semester credit units (*sks*), consist of:
      1. Topic Seminar (2 semester credit units (*sks*));
      2. Qualification Examination (2 semester credit units (*sks*))
      3. Periodic seminar(s) (2 semester credit units (*sks*));
      4. International Publication(s) (6 semester credit units (*sks*)); and
      5. International Seminar(s) (2 semester credit units (*sks*)).
  - (2) Doctoral candidates who have written three articles in reputed international scientific journals with the status of 2 *accepted* and 1 *published* during his/her Doctoral study can be exempted from Open Dissertation examinations.
  - (3) Scientific Publications as referred to section (2) must comply with the following requirements:
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- a. The doctoral candidate or student of *PDPSIF* as the main author and the Promoter/Co-Promoter as the corresponding authors
  - b. Stating the affiliation to *PDPSIF*/Faculty of Pharmacy/Universitas Airlangga
  - c. The topic of publications is relevant to the topic of dissertation
  - d. The publication is in reputed international scientific journals minimum equals to Q3 *Scopus (ScimagoJR)* and not in special issues
  - e. not predatory journals/predatory publishers
- (4) The provisions that exempt the doctoral candidates from open dissertation examinations as referred to sections (2) and (3) must be fulfilled before the doctoral candidate carries out closed dissertation examination.

**Table 1** The Curriculum of Doctoral Program of Pharmaceutical Sciences Study program

NO.	COURSES/ACTIVITIES		CREDITS	REMARKS
	COURSE CODES	NAMES OF COURSES/ACTIVITIES		
1	2	3	4	5
<b>SEMESTER I</b>				
1.	PNF891	Topic Seminar	2	
2.	PNF892	Qualification	2	
3.	PNF898	Dissertation Proposal	6	
Total Credits of Semester I			<b>10</b>	
<b>SEMESTER II-VI</b>				
4.	PNF893	Periodic Seminar	2	
5.	PNF894	International Seminar*	2	
6.	PNF895	International Publication	6	1 <i>published</i> 1 <i>accepted</i>
7.	PNF899	Dissertation	24	
Total Credits of SEMESTER II-VI			<b>34</b>	
<b>Total SKS</b>			<b>44</b>	

Remark: \*The outcomes of international seminar(s) are indexed proceedings/*special issues* in reputed international scientific journals or publications in reputed international scientific journals



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**CHAPTER IV**  
**ACADEMIC GOVERNANCE**

**Part One**

**Promoter Candidate, Promoter, Co-Promoter, and Advisory Process**

**Article 8**

- (1) Before attending the learning activities, every student must have a Promoter Candidate whose willingness is indicated by filling a form provided by the study program no later than one week after the admission to be determined and stipulated by the Dean and is known by the *KPS*.
- (2) The Promoter Candidate as referred to section (1) must comply with the following requirements:
  - a. being a permanent lecture at the Faculty of Pharmacy of UNAIR;
  - b. having a position as a Professor or Doctor with the rank of a Head Lector who has made at least one scientific publication in reputed international scientific journals in the last five years
  - c. having expertise in his/her field of studies
  - d. having research umbrella/research agenda
- (4) The promoter candidate is assigned and liable for advising the students in attending learning activities until the qualification examination to be entitled as Doctoral Candidates.
- (5) A Promoter Candidate may only advise the maximum of four students in the Doctoral Education Program.
- (6) The students must actively and regularly consult with the promoter candidate at least four times before the qualification examination.
- (7) Students or Doctoral Candidates record every consultation activity into the Dissertation Workbook which is submitted to the study program before the qualification examination.

**Article 9**

- (1) Students who have passed the qualification examination will obtain the title of Doctoral Candidates.
  - (2) The *KPS* proposes the Promoters and Co-Promoters to the Dean by taking into account the proposals of the students and the result of the qualification examination meeting.
  - (3) The promoter as referred to section (2) must comply with the following requirements:
    - a. being a permanent lecture at the Faculty of Pharmacy of UNAIR;
    - b. being a Professor or Doctor with the rank of Head Lector who has made at least one scientific publication in reputed international journals in the last five years
    - c. having expertise in his/her field of studies; and
    - d. having research umbrella/research agenda
  - (4) The Dean is authorized to appoint Promoters/Co-Promoters who are entering retirement ages to continue the duties as an advisor after the issuance of the Decree of the Rector concerning Service Extension.
  - (5) In carrying out his/her duties as an advisor, a Promoter can be assisted by one or two Co-Promoters.
  - (6) Co-Promoters, as referred to section (4), must comply with the following requirements:
    - a. being a Professor or Professor Emeritus;
    - b. being a Doctor with the lowest rank of Lector; and
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- c. being non-lecturer Doctors/practitioners.
- (7) Promoters and Co-Promoters are appointed through the Decree of the Dean after indicating written consents to advise Doctoral Candidates and obtaining *KPS* recommendations.
  - (8) A promoter and/or a co-promoter can only advise a maximum of four students cumulatively effective since the appointment.
  - (9) The Promoters and Co-Promoters are assigned to advise the doctoral candidates and are liable for:
    - a. the originality of the research and its scientific contributions;
    - b. the methodological accuracy, theoretical mastery, and the depth of reasoning;
    - c. the thinking system and the conclusion of the research made by the Doctoral candidates; and
    - d. the publication as the obligation of the Doctoral Candidates.
  - (10) The promoter and the co-promoter regularly evaluate the progress of the dissertation research and writing process, conduct periodic seminars on the results of the dissertation research, and sign the student activities recorded in the Dissertation Workbook.
  - (11) The promoter and the co-promoter propose the implementation of the Dissertation Eligibility Examination to the *KPS* prior to the closed dissertation examination (phase 1).
  - (12) In case the Promoter or Co-Promoter is permanently absent, the Dean immediately appoints a Promoter and/or Co-Promoter substitute based on the proposals of Doctoral Candidates and the *KPS* recommendations.
  - (13) The Promoter and Co-Promoter substitutes as referred to section (11) must consider and prioritize the continuation of research proposals that have been approved by the Committee of Dissertation Proposal Examination.
  - (14) During the study period, a Promoter and/or Co-Promoter may be substituted by other Promoters and/or Co-Promoters if there are non-academic issues on the relationship between the Promoter and/or the Co-Promoter and the Doctoral Candidate.
  - (15) A Promoter may not be substituted merely based on academic issues with the Doctoral Candidate.
  - (16) The procedures of Promoter and/or Co-Promoter substitution will be regulated further by the Dean.

**Part Two**  
**Consultants**

**Article 10**

- (1) Consultants are proposed by the Doctoral Candidate to the *KPS* under the approval of the Promoter.
  - (2) The *KPS* proposes the consultant candidates to the Dean to obtain the Decree of the Dean.
  - (3) The consultant is assigned to assist the Promoter in providing certain materials in the specific fields of study needed by the Doctoral Candidate related to his/her research and dissertation writing for a minimum of one semester.
  - (4) The consulting fee is charged to the Doctoral Candidate.
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**Part Three  
Examiners**

**Article 11**

- (1) The examiners are proposed by the Promoter/Promoter Candidate to the *KPS*.
- (2) The *KPS* proposes the examiner candidates to the Dean to obtain the Decree of the Dean.
- (3) The examiners are assigned to examine, suggest revisions, and grade the examination.
- (4) The examiners criteria are Professors or Doctors who are experts in the fields of study or topics under examination.

**Part Four  
Learning Assessment**

**Article 12**

- (1) The assessment of doctoral candidates' learning activities and progress is conducted regularly in accordance with the stipulated components.
- (2) The assessment of learning results is indicated by absolute numerical marks and letter grades A, AB, and B with the following equivalence:

Numerical Marks	Letter Grades	Quality Values
86 - 100	A	4
78 - < 86	AB	3.5
70 - < 78	B	3

- (3) The passing grade for all dissertation and non-dissertation components equals or is higher than B, equivalent to quality value of 3 (three) or higher.

**Part Five  
Topic Seminar (Pre-Proposal Periodic Seminar)**

**Article 13**

- (1) Topic Seminar (Pre-Proposal Periodic Seminar) is a scientific activity carried out by the Students to present matters related to the topic of dissertation research in order to prepare qualification manuscripts and dissertation proposals.
  - (2) The topic seminar discusses journals or matters related to the topics of research, which are going to be carried out by the students and the solutions if there are problems concerning the formulation of qualification manuscripts and dissertation proposals.
  - (3) The topic seminar is carried out twice in the first semester.
  - (4) Topic Seminar 1 is conducted before the qualification examination and Topic Seminar 2 is carried out before the proposal examination.
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- (5) The Topic Seminar is attended by a minimum of three assessors, including the Promoter Candidate/Promoter/Co-Promoter.
- (6) The organization of Topic Seminar 1 is led by the Promoter Candidate and Topic Seminar 2 is led by the Promoter and is attended by the team of assessors proposed by the Promoter/Co-Promoter to the *KPS*.
- (7) The Topic Seminar organization can be attended by academic communities determined by the Promoter/Promoter Candidate.
- (8) The assessment of Topic Seminar 1 and 2 is conducted by the Promoter/Promoter Candidate with the number of 3-5 assessors.
- (9) The assessment includes the following aspects: a) the use of visual device, handout presentations, and time management, b) attitude and presentation; c) material formulation; d) topic mastery; e) conformity between research objectives and contents; f) discussion and thinking system; g) references; and h) objective, scientific, and logical argumentation skills.
- (10) The final score of Topic Seminar is the average scores of the two seminars.
- (11) The time allocation of Topic Seminars is two hours, which includes 25 minutes of presentation by students/doctoral candidates and the assessment by the team of assessors.
- (12) The schedule of Topic Seminar is determined by the study program.
- (13) Students/Doctoral Candidates may propose the revision of seminar topic schedule to the *KPS* under the approval of the Promoter.

**Part Six  
Qualification Examination**

**Article 14**

- (1) Qualification examination is a comprehensive examination that must be taken by the students of *PDPSIF* to obtain the status as a Doctoral Candidate no later than 2 (two) months after passing *PDPSIF* selection test.
  - (2) If by that time the qualification examination has not been carried out, the *KPS* can schedule the examination and issue a warning letter to the Student with a copy to the Promoter Candidate to immediately carry out the qualification examination.
  - (3) Qualification examination and the assessor committee is proposed by the Promoter Candidate to the Dean through *KPS*.
  - (4) The assessor committee of qualification examination is appointed by the Dean and consists of 7 (seven) lecturers, including the promoter candidate with the promoter candidate as the leader.
  - (5) Should the promoter candidate be absent, the qualification examination is led by one of the attending team of assessor members based on a mutual agreement.
  - (6) The qualification examination can only be carried out and bring decisive results if being attended by a minimum of 5 (five) members of the assessor committee.
  - (7) The time allocated for qualification examinations is two hours, which includes 25 minutes of presentation by the Students.
  - (8) The assessment components of the qualification examination are: a) philosophical understanding and research methodologies mastery of the field of the study; b) theoretical and substantial mastery of the
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field of the study which includes mastering the principles/basic theories and its applications; c) reasoning skills, which includes abstraction and extrapolation skills; and d) thinking system and formulation skills.

- (9) In order to pass the qualification examination, a Student must achieve the minimum score equal to quality value 3.00 or grade B.
- (10) *PDPSIF* students who pass the qualification examination will obtain the title of Doctoral Candidate as certified in Qualification Examination Passing Statement.
- (11) *PDPSIF* students who fail the qualification examination have one chance to take the remedial examination conducted no later than one month after being declared failed in the qualification examination.
- (12) The Doctoral Program students who fail the remedial examination, he/she will be declared study failure (*drop out*).

**Part Seven  
Dissertation Research Proposals**

**Article 15**

- (1) The dissertation research proposal is prepared by the doctoral candidate under the guidance of the Promoter and Co-Promoter in the first semester.
  - (2) The dissertation research proposals which have been signed and approved by the Promoter and Co-Promoter and authorized by the *KPS* are proposed to the Dean for further processes.
  - (3) If by the determined time the dissertation proposal examination has not been carried out, the *KPS* can schedule the examination and issue a warning to the doctoral candidate with a copy to the Promoter and Co-Promoter to immediately carry out the examination.
  - (4) Dissertation Proposal Examination and the assessor committee are proposed by the Promoter Candidate to the Dean through *KPS*.
  - (5) The assessor committee of dissertation proposal examination consists of seven lecturers appointed by the Dean after being recommended by the *KPS*.
  - (6) The Dissertation Proposal Examination is led by The Promoter as the Head of the Assessor Committee. Should the Promoter be absent, the examination is led by the Co-Promoter.
  - (7) The dissertation proposal examination can only be carried out and bring decisive results if being attended by a minimum of five members of the assessor committee, including the Promoter and Co-Promoter.
  - (8) The time allocated for dissertation research proposal examinations is two hours, which includes 25 minutes of presentation by the doctoral candidate.
  - (9) The assessment components of dissertation proposal examinations are; a) presentation skills, b) objective, logical, and scientific argumentation skills; c) problem identification and research objectives; d) conceptual and thinking frameworks; e) writing organization; f) research methodology; g) reference cited; and h) research feasibility.
  - (10) The assessor committee of the dissertation proposal examination is assigned to assess the contents of Dissertation Research Proposal and declare whether the proposal is accepted (with or without revisions) or rejected.
  - (11) In order to pass the Dissertation Research Proposal Examination, the Student must achieve the average minimum score equal to the quality value of 3 (three) or letter grade B.
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- (12) In case the research proposal is rejected, the Doctoral candidate is given one chance to attend the second examination conducted no later than 3 (three) months after the first examination.
- (13) If the determined time is exceeded and the Dissertation Research Proposal is rejected, the Doctoral Candidate is declared study failure.
- (14) In case the Dissertation Research Proposal is rejected in the second examination, the Doctoral Candidate is declared study failure.
- (15) Dissertation Research Proposal manuscripts that have been revised and approved by all examiners must be submitted to the study program no later than 3 (three) months after the examination.
- (16) Authorized Dissertation Research Proposal manuscripts serve as references in conducting dissertation research and organizing the dissertation manuscripts.

**Part Eight**  
**Periodic Seminar**

**Article 16**

- (1) Periodic Seminars are scientific activities carried out periodically and regularly by the doctoral candidate every semester to report the progress of the ongoing research.
- (2) Periodic Seminars are scheduled by the study program 4 (four) times during the study period from the second to the fifth semesters.
- (3) The periodic seminar assessment is conducted by a team of assessors consisting of 3-5 assessors.
- (4) The periodic seminar is attended by a minimum of 3 (three) assessors including the Promoter/Co-Promoter.
- (5) The periodic seminar can be attended by academic communities determined by the Promoter and approved by the *KPS*.
- (6) The time allocation for periodic seminars is 2 hours, including 25 minutes of presentation by the doctoral candidate.
- (7) The assessment includes the following aspects: a) the use of visual devices, handout presentation, and time management; b) attitude and presentation; c) content organization; d) content mastery; e) conformity between contents and research objectives; f) thinking and discussion systematics; g) references; and h) objective, logical, and scientific argumentation skills.

**Part Nine**  
**International Seminars**

**Article 17**

- (1) The Doctoral Candidate must participate in international seminars as a speaker at least once during the study period, preferably as an oral speaker.
  - (2) The proof of international seminar participation stated in section (1) must be submitted to the study program.
  - (3) The outcomes of international seminars are in the forms of international publications at international seminar proceedings indexed by *ISI Knowledge-Thompson Reuter*, *SCOPUS (ScimagoJR)/Microsoft*
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*Academic Search* or special issues at reputed international scientific journals or articles at reputed international scientific journals with the minimum status of *accepted*.

- (4) The assessment of the International Seminar course is based on the outcomes of seminar stated in section (3) proposed by the Doctoral Candidate stated in the assessment proposal letter approved by the Promoter.
- (5) The assessment as referred to section (3) is carried out by the *KPS* by referring to the following guidelines:

Outcomes	Grade Letters	Quality Values
Reputed international journals/special issues/indexed international proceedings related to the seminar	A	4.0
Reputed international journals not related to international seminars	AB	3.5

**Part Ten**  
**International Scientific Publications**

**Article 18**

- (1) The Doctoral Candidate must produce international scientific publications during his/her study period as one of the graduation requirements.
- (2) The scientific articles published by the doctoral candidate related to his/her dissertation must be approved by the Promoter/Co-Promoter and must involve the Promoter/Co-Promoter in determining the author sequence.
- (3) The scientific publications referred to section (1) must comply with the provisions regulated in section (3) points a, b, c, and e of Article 7 and must be indexed by *ISI Knowledge-Thompson Reuter*, *SCOPUS (ScimagoJR)*, or *Microsoft Academic Search* and not special issues.
- (4) The scientific publications can be in the forms of *original articles*, *review articles*, and *case reports*.
- (5) Scientific publications in the form of *review articles* are limited to a maximum of one article that can be used as the requirement of publication.
- (6) The assessment of international publication course is based on scientific articles proposed by the doctoral candidate stated on the assessment proposal letter approved by the Promoter.
- (7) The assessment of International Publication course referred to section (4) is conducted by the *KPS* based on the average value of scientific articles referring to the following guidelines:

Outcomes	Grade Letters	Quality Values
Articles in international scientific journal indexed Scopus minimum Q3/ <i>ISI Knowledge-Thompson Reuter</i>	A	4.0
Articles in international scientific journals indexed Scopus Q4/ <i>Microsoft Academic Search</i>	AB	3.5





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**Part Eleven**  
**Dissertation Eligibility Examination**

**Article 19**

- (1) The dissertation manuscript is prepared according to the writing format stated in the Dissertation Writing Guidebook stipulated by the Dean, is written according to good and correct Indonesian language principles and not containing plagiarism or replications.
  - (2) The Doctoral Candidate must prepare an originality statement letter prior to the dissertation eligibility examination.
  - (3) The Dissertation Eligibility Examination can be carried out at least 6 (six) months after the Dissertation Research Proposal Examination, and at the latest it can be carried out in the sixth semester.
  - (4) In case the dissertation eligibility examination has not been carried out by the end of the sixth semester, *KPS* can schedule the examination and issue a warning to the doctoral candidate with a copy to the Promoter/Co-Promoter to immediately carry out the examination.
  - (5) The Dissertation Eligibility Examination and the Assessor Committee are proposed by the Promoter, approved by *KPS*, and appointed by the Dean.
  - (6) The Dissertation Eligibility Examination is conducted by the Dissertation Eligibility Assessment Committee consisting of 7 (seven) members, including the Promoter and Co-Promoter. The committee is led by the promoter.
  - (7) The examiners of Dissertation Eligibility Examination should be the same examiners as in the Dissertation Research Proposal Examination.
  - (8) The dissertation eligibility examination can only be carried out if it is attended by a minimum of 5 (five) members of the Assessor Committee.
  - (9) The Dissertation Eligibility Examiners are assigned to assess, provide corrections and revisions to perfect the dissertation manuscript to be proposed as materials of closed dissertation examinations.
  - (10) The dissertation eligibility examination is carried out for 2 (two) hours including the maximum of 25 minutes of presentation time by the doctoral candidate.
  - (11) The components of Dissertation Eligibility Assessment consist of: a) presentation skills; b) objective, logical and scientific argumentation skills; c) relevance between research title and contents; d) writing skills (format and linguistic aspects); e) conformity between literary reviews and research problems and the recency of the references, f) the relevance of research design and instruments with the research problems; g) the depth of discussion and analysis; h) the conformity between research objectives, findings, and conclusion; and i) originality and scientific contributions.
  - (12) The Doctoral Candidate is declared passed and promoted to the Closed Dissertation Examination if the average score of the dissertation eligibility examination is a minimum of 3 (three) or grade letter B.
  - (13) The decisions of Dissertation Eligibility Committee:
    - a. The candidate is promoted to closed dissertation examinations.
    - b. The candidate cannot be promoted to the closed dissertation examination and must take the remedial examination carried out no later than two months after the dissertation eligibility examination.
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- (14) Revisions made on the Dissertation Eligibility Manuscript must be approved by all the members of the dissertation Eligibility Assessment Committee proven by signing the revision approval sheet provided by the study program.
- (15) Minutes of Dissertation Eligibility Manuscript Revisions must be attached to the application for the Closed Dissertation Examination.

**Part Twelve**  
**Final Examinations**

**Article 20**

- (1) The final examination of doctoral Study program consists of two phases, namely:
  - a. The closed dissertation examination, which is comprehensive and closed;
  - b. The open dissertation examination, which is public, except for the doctoral candidates who have made three publications on reputed international scientific journals as provisioned by sections (2) and (3) of Article 7.

**Article 21**

- (1) The closed dissertation examination is carried out no later than 3 (three) months after the Dissertation Eligibility Examination based on the following provisions:
    - a. the candidate passed International Publication course (PNF895)
    - b. the candidate passed International Seminar course (PNF894)
    - c. the candidate has fulfilled ELPT requirements (for the candidates who apply for exemption of open dissertation examinations).
  - (2) If the time limit is exceeded, *KPS* may issue a warning to the Promoter and the Doctoral Candidate to immediately schedule the closed dissertation examination.
  - (3) The examiners of the closed dissertation examination are proposed by the Promoter, approved by *KPS*, and appointed by the Dean, consisting of 8 (eight) members with one of its members is an external examiner who is not the lecturers of Universitas Airlangga and not from the Doctoral Candidate's institution.
  - (4) The examiners of closed dissertation examinations must comply with the following requirements:
    - a. having a position of a Professor; or
    - b. having a title of a Doctor who is an expert in the field of study under the examination.
  - (5) The examiners of the closed dissertation examination are preferably the same examiners as in the Dissertation Eligibility Examination.
  - (6) The closed dissertation examination can only be carried out and bring decisive results if it is attended by a minimum of 7 (seven) members of the dissertation examination committee.
  - (7) The Promoter, Co-Promoter, and external examiner must attend the closed dissertation examination.
  - (8) The closed dissertation examination is led by the Head of Examination Committee, not the Promoter and Co-Promoter, who is appointed by the Dean based on *KPS* recommendations.
  - (9) The Closed Dissertation Examination is carried out for 2.5 (two and a half hours) including the maximum of 30 minutes of presentation time by the Doctoral Candidate.
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- (10) The components of Closed dissertation examination consist of: a) presentation skills; b) objective, logical and scientific argumentation skills; c) relevance between research title and contents; d) writing skills (format and linguistic aspects); e) conformity between literary reviews and research problems and the recency of the references, f) the relevance of research design and instruments with the research problems; g) the depth of discussion and analysis; h) the conformity between research objectives, findings, and conclusion; and i) originality and scientific contributions.
- (11) The Doctoral Candidate is declared passed and promoted to the Open Dissertation Examination if the average score of the dissertation eligibility examination is a minimum of 3 (three) or grade letter B.
- (12) The committee decisions of closed dissertation examination declare that the Doctoral Candidate:
  - a. passed;
  - b. passed with revisions that must be made no later than 3 (three) months after the day of the closed dissertation examination;
  - c. failed and had one chance of remedial examination.
- (13) The Doctoral Candidate who passed the closed dissertation examination and is ready for the open dissertation examination will obtain the status of *Promovendus/a*.
- (14) The Doctoral Candidate who passed with revisions must make the revisions no later than 3 (three) months after the closed dissertation examination day.
- (15) The Doctoral Candidate who failed is given one chance to improve his/her Dissertation Manuscripts and retake the examination carried out no later than 6 (six) months after the closed dissertation examination day.
- (16) The Doctoral Candidate who failed the remedial closed dissertation examination is declared a study failure.
- (17) Revisions made on the Dissertation Manuscript must be approved by all the members of the Closed Examination Examiner Committee, proven by signing the revision approval sheet provided by the study program.

#### Article 22

- (1) The requirements of open dissertation examination are:
    - a. passing the closed dissertation examination;
    - b. complying with *ELPT* requirements
    - c. submitting the revisions of dissertation manuscript
    - d. submitting the dissertation summary
  - (2) The open dissertation examination is carried out 1 (one)-6 (six) months after the *Promoverandus/a* is declared passed the closed dissertation examination.
  - (3) If the open dissertation examination cannot be carried out within 6 (six) months after the closed dissertation examination, *KPS* can issue a warning to the Promoter and *Promovendus/a* to immediately schedule the open dissertation examination.
  - (4) Open dissertation examination is a refutation forum consists of a minimum of 8 (eight) refuters and a maximum of 10 (ten) refuters from the related field of studies from within and/or outside Universitas Airlangga with at least 1 (one) external refuter who is not the member of the examiners in the closed
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dissertation examination, except the head of examination committee and attended by a maximum of 10 (ten) academic invitees proposed by KPS and appointed by the Dean.

- (5) Open dissertation examination is led by the Dean or his/her representative appointed by the Dean.
- (6) Open dissertation examination can only be carried out and bring decisive results if it is attended by a minimum of 8 (eight) Refuters.
- (7) The academic invitees can only ask questions and refute the dissertation, but not give assessment on the dissertation.
- (8) The components of open dissertation assessment are: a) relevance between the findings of the research with the development of science, technology, and/or arts; b) the contribution of research findings to the development of science, technology and/or arts; c) conceptual methods findings and innovations; d) scientific and analytical thinking skills; e) scientific insight; and f) skills in answering the refutations scientifically.
- (9) The procedures and the schedule of open dissertation examination is determined by the study program as the guidelines of dissertation examination organization.
- (10) A doctoral candidate can be exempted from open examination if he/she has complied with the requirements provisioned in Article 7 sections (2) and (3) proposed before the closed examination.
- (11) In case the *Promovendus/a* has complied with the requirements of the open examination exemption, the assessment of open examination refers to the assessment of the closed examination.
- (12) The Dean or his/her representative announces the graduation predicate for *Promovendus/a* who does not take the open examination at the judicial meeting after the closed examination done.

### Part Thirteen

#### Dissertation Assessment and Doctorate Awarding

##### Article 23

- (1) The assessment of the open dissertation examination is final and absolute and is based on the GPA achieved during the Doctoral program.
- (2) The assessment of the open dissertation examination is determined by scientific publication outcomes of the doctoral candidate with the highest credit of *published* during the study period with the conversion as follows:

Scientific Publications	Conversions
International scientific journals indexed Scopus Q1, Q2 and Q3 or <i>ISI/ Knowledge-Thompson Reuter</i>	1
International scientific journals indexed Scopus Q4/ <i>Microsoft Academic Search</i> .	0.9

- (3) The assessment provisions stated in section (2) apply starting from the academic year 2018/2019.
- (4) The passing criteria of Pharmaceutical Science Doctoral Program are:
  - a. The length of study less than 14 semesters;
  - b. The minimum GPA of 3.00
  - c. Submitted the proofs of international publications of scientific works submission to international reputed scientific journals as the main author with the status of 1 (one) *published* and 1 (one) *accepted*;



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- and 1 (one) paper to international seminar proceedings indexed by *ISI Knowledge-Thompson Reuter*, *SCOPUS (ScimagoJR)*, or *Microsoft Academic Search* with the status of *accepted*;
- d. Complied with other requirements provisioned by the study program.
- (5) *Promovendus/a* who successfully defends his/her dissertation and is declared passed in the open dissertation examination is entitled to a Doctorate Degree (Dr.)
- (6) The awarding of Doctorate Degree is accompanied by graduation predicates:
- satisfying, final GPA of 3.00-3.40;
  - very satisfying, final GPA of 3.41-3.74;
  - with praise (*cumlaude*), final GPA of 3.75-4.00.
- (7) The graduation predicate with praise (*cumlaude*) is only awarded to the students whose study period is less than 4 years until the Open Dissertation Examination and have made 3 (three) publications in reputed international scientific journals relevant to their dissertations as the main authors with the status of 1 (one) *published* and 2 (two) *accepted*.
- (8) The Diploma is awarded to the Doctor who has passed the open dissertation examination after he/she complies with the following requirements:
- submitting dissertation manuscripts that have been revised and approved by the Promoter and Co-Promoter to the Faculty no later than 1 (one) month after the open dissertation examination;
  - completing all administrative provisions and obligations of the Faculty

## CHAPTER V ACADEMIC SANCTIONS

### Article 24

- (1) The Dean imposes academic sanctions to student(s) or doctoral candidate(s) who carries out:
- violating academic provisions;
  - plagiarism;
  - replication;
  - violating academic ethics and campus behavioural regulations
  - violating the law that has been determined by a court sentence
- (2) The levels and types of academic sanctions consist of:
- oral and written warrants
  - cancellation of academic grades;
  - exclusion from academic activities for 1-2 semesters;
  - declared study failure.
- (3) The sanctions of academic ethics and morality are determined by The Council of Ethics at the Faculty and University based on the ruling Regulations.
- (4) Violations of the law are resolved through legal procedures in accordance with the ruling laws.



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**CHAPTER VI**  
**ACADEMIC LEAVE AND STUDY FAILURE**

**Article 25**

- (1) Students and Doctoral Candidates can take academic leave with justifiable reasons for a maximum of 2 (two) cumulative semesters under the following conditions:
  - a. must pay the tuition fee during the academic leave;
  - b. during the academic leave, the study period is not counted;
  - c. has attended the Doctoral Program for two semesters
  - d. the academic leave is approved by the Promoter and *KPS* and is enacted by a Decree of the Dean;
  - e. the existing academic regulations are still applicable to the students or doctoral candidates who are taking academic leave.
- (2) Study failure is decreed by the Dean and is strengthened by the Decree of the Rector.
- (3) Students, Doctoral Candidates, and/or *Promovendus/a* are declared study failure if they are proven:
  - a. violating administrative provisions, not re-registering, and/or not paying the tuition fees for two consecutive semesters;
  - b. violating academic provisions with the consequences of study failure
- (4) Students, Doctoral Candidates, and/or *Promovendus/a* that are threatened study failures may propose a request for resignation from the Doctoral Program to the Dean in order to be able to continue his/her study at other universities. The Students, Doctoral Candidates, and/or *Promovendus/a* who have resigned are not allowed to re-register.

**CHAPTER VII**  
**CLOSING PROVISIONS**

**Article 26**

- (1) Academic regulations can be changed as needed and enacted by the Dean.
- (2) This academic regulation applies to *PDPSIF* students of the Odd Batch 2021/2022 and *PDPSIF* students from the previous batches who have not carried out the stages of education according to the applicable curriculum.
- (3) Matters that have not been regulated in this academic regulation will be regulated in specific provisions.





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**LIST OF LECTURERS ELIGIBLE FOR PROMOTERS**

NO.	LECTURER NAMES	RESEARCH GROUPS
1.	Prof. Dr. apt. Siswandono, MS.	<i>Drug Development</i>
2.	Prof. Dr. apt. Achmad Sjahrani, MS.	<i>Drug Development</i>
3.	Prof. Dr. apt. Widji Soeratri, DEA.	<i>Cosmetics</i>
4.	Prof. Dr. apt. Sukardiman, MS.	<i>Natural Products Drug Discovery &amp; Development</i>
5.	Prof. Dr. apt. Sudjarwo, MS.	<i>Pharmaceutical Analysis Development</i>
6.	Prof. Dr. apt. Bambang Prajogo E.W., MS.	<i>Natural Products Drug Discovery &amp; Development</i>
7.	Prof. Dr. apt. rer. nat. M. Yuwono, MS.	<i>Pharmaceutical Analysis Development</i>
8.	Prof. Dr. apt. Djoko Agus Purwanto, M.Si.	<i>Pharmaceutical Analysis Development</i>
9.	Prof. Dr. apt. Suko Hardjono, MS.	<i>Drug Development</i>
10.	Prof. Dr. apt. Suharjono, MS.	<i>Clinical Pharmacy</i>
11.	Prof. Dr. apt. Achmad Fuad Hafid, MS.	<i>Natural Products Drug Discovery &amp; Development</i>
12.	Prof. Dr. apt. Umi Athiyah, MS.	<i>Innovative Pharmacy Practice and Integrated Outcomes Research Group</i>
13.	Prof. Dr. apt. Dwi Setyawan, S.Si., M.Si.	<i>Pharmaceutical Materials Engineering and Processing</i>
14.	Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D.	<i>Biomaterial and Translational Research</i>
15.	Prof. Dr. apt. Bambang Tri Purwanto, MS.	<i>Drug Development</i>
16.	Prof. apt. Esti Hendradi, MSi., Ph.D.	<i>Nanotechnology and Drug Delivery System</i>
17.	Prof. Dr. apt. Retno Sari, M.Sc.	<i>Pharmaceutical Materials Engineering and Processing</i>
18.	Dr. apt. Asri Darmawati, MS.	<i>Pharmaceutical Analysis Development</i>
19.	Dr. apt. Budi Suprapti, MSi.	<i>Clinical Pharmacy</i>
20.	Dr. apt. Tristiana Erawati, M.Si.	<i>Cosmetics</i>
21.	Dr. apt. Liza Pristianty, M.Si., M.M.	<i>Innovative Pharmacy Practice and Integrated Outcomes Research Group</i>
22.	Dr. apt. Suzana, M.Si.	<i>Drug Development</i>
23.	Dr. apt. Noorma Rosita, M.Si.	<i>Cosmetics</i>
24.	Dr. apt. Nuzul Wahyuning D., M.Si.	<i>Drug Development</i>
25.	Dr. apt. Juni Ekowati, M.Si.	<i>Drug Development</i>
26.	Dr. apt. Dewi Isadiartuti, M.Si.	<i>Pharmaceutical Materials Engineering and Processing</i>
27.	Dr. apt. Aty Widyawaruyanti, M.Si.	<i>Natural Products Drug Discovery &amp; Development</i>
28.	Dr. apt. Yulistiani, M.Si.	<i>Clinical Pharmacy</i>
29.	Drs. apt. Marcellino Rudyanto, M.Si., Ph.D.	<i>Drug Development</i>
30.	Dr. apt. Yunita Nita, S.Si., M.Pharm.	<i>Innovative Pharmacy Practice and Integrated Outcomes Research Group</i>
31.	apt. Dewi Melani Hariyadi, S.Si., M.Phil., Ph.D.	<i>Nanotechnology and Drug Delivery System</i>
32.	Dr. apt. Aniek Setiya Budiatin, M.Si.	<i>Biomaterial and Translational Research</i>



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33.	Drs. apt. Hadi Poerwono, M.Sc., Ph.D.	<i>Drug Development</i>
34.	apt. Rr. Retno Widyowati, S.Si., M.Pharm., Ph.D.	<i>Natural Products Drug Discovery &amp; Development</i>
35.	apt. Helmy Yusuf, S.Si., M.Sc., Ph.D.	<i>Pharmaceutical Materials Engineering and Processing</i>
36.	apt. Tutik Sri Wahyuni, S.Si., M.Si., Ph.D.	<i>Natural Products Drug Discovery &amp; Development</i>
37.	Dr. apt. Tri Widiandani, S.Si., Sp.FRS.	<i>Drug Development</i>

**LIST OF LECTURERS ELIGIBLE FOR CO-PROMOTERS**

<b>NO.</b>	<b>LECTURER NAMES</b>	<b>RESEARCH GROUPS</b>
1.	Dr. apt. Wahyu Utami, MS.	<i>Innovative Pharmacy Practice and Integrated Outcomes Research Group</i>
2.	Dr. apt. Wiwied Ekasari, M.Si.	<i>Natural Products Drug Discovery &amp; Development</i>
3.	Dr. apt. Idha Kusumawati, S.Si., M.Si.	<i>Natural Products Drug Discovery &amp; Development</i>
4.	Dr. apt. Achmad Toto Poernomo, M.Si.	<i>Pharmaceutical Analysis Development</i>
5.	Dr. apt. Tutiek Purwanti, M.Si.	<i>Nanotechnology and Drug Delivery System</i>
6.	Dr. apt. Riesta Primaharinastiti, S.Si., M.Si.	<i>Pharmaceutical Analysis Development</i>
7.	Dr. apt. Muh. Agus Syamsur Rijal, S.Si., M.Si.	<i>Nanotechnology and Drug Delivery System</i>
8.	apt. Elida Zairina, S.Si., MPH., Ph.D.	<i>Innovative Pharmacy Practice and Integrated Outcomes Research Group</i>
9.	apt. Hanni Prihastuti Puspitasari, S.Si., M.Phil., Ph.D.	<i>Innovative Pharmacy Practice and Integrated Outcomes Research Group</i>
10.	apt. Melanny Ika Sulistyowaty, S.Farm., M.Sc., Ph.D.	<i>Drug Development</i>
11.	Dr. apt. Yuni Priyandani, S.Si., Sp.FRS.	<i>Innovative Pharmacy Practice and Integrated Outcomes Research Group</i>
12.	apt. Mahardian Rahmadi, S.Si., M.Sc., Ph.D.	<i>Biomedical Pharmacy</i>
13.	apt. Suciati, S.Si., M.Phil., Ph.D.	<i>Natural Products Drug Discovery &amp; Development</i>
14.	Dr. rer.nat. apt. Maria Lucia Ardhani Dwi Lestari, S.Si., M.Pharm.Sci.	<i>Pharmaceutical Materials Engineering and Processing</i>
15.	apt. Andi Hermansyah, S.Farm., M.Sc., Ph.D.	<i>Innovative Pharmacy Practice and Integrated Outcomes Research Group</i>
16.	apt. Andang Miatmoko, S.Farm., M.Pharm.Sci., Ph.D.	<i>Nanotechnology and Drug Delivery System</i>
17.	apt. Chrismawan Ardianto, M.Sc., Ph.D.	<i>Biomedical Pharmacy</i>
18.	Dr. apt. Abdul Rahem, MKes	<i>Innovative Pharmacy Practice and Integrated Outcomes Research Group</i>

\*The lecturers who are eligible for promoters are also eligible for co-promoters



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**LIST OF MATRICULATION COURSES/SIT IN**

NO.	COURSE CODES	COURSE NAMES	CREDITS	LECTURERS
1.	PNF697	Research Methodology	2	Prof. Dr. apt. Djoko Agus Purwanto, M.Si. (Course Coordinator) Prof. Dr. rer. nat. apt. M. Yuwono, MS. Prof. Dr. apt. Muhamad Zainudin Prof. Dr. apt. Umi Athiyah, MS.
2.	PHF601	Philosophy of Science	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Prof. Dr. apt. Muhamad Zainudin
3.	MAS601	Statistics	2	Prof. Dr. rer. nat. apt. M. Yuwono, MS. (Course Coordinator) Prof. Dr. apt. Amirudin Prawita Prof. Dr. apt. Djoko Agus Purwanto, M.Si.
4.	KIA616	Instrumental Analysis and Electrochemistry A	2	Prof. Dr. rer. nat. apt. M. Yuwono, MS. (Course Coordinator) Prof. Dr. apt. Amirudin Prawita
5.	KIA622	Instrumental Analysis and Electrochemistry B	1	Prof. Dr. rer. nat. apt. M. Yuwono, MS. (Course Coordinator) Prof. Dr. apt. Amirudin Prawita
6.	KIA618	Advanced Spectroscopy A	2	Drs. apt. Marcellino Rudyanto, M.Si., Ph.D. (Course Coordinator) Drs. apt. Hadi Poerwono, M.Sc., Ph.D.
7.	KIA619	Advanced Spectroscopy B	1	Prof. Dr. apt. Sudjarwo, MS. (Course Coordinator) Prof. Dr. apt. Sugijanto, MS.
8.	KIA617	Advanced Chromatography	2	Prof. Dr. rer. nat. apt. M. Yuwono, MS. (Course Coordinator) Prof. Dr. apt. Djoko Agus Purwanto, M.Si. Dr. apt. Riesta Primaharinastiti, M.Si.
9.	NUF601	Functional Food	2	Dr. apt. Nuzul Wahyuning Diah, M.Si. (Course Coordinator) Prof. Dr. apt. Purwanto Dr. apt. Bambang Tri Purwanto, MS.
10.	KIA635	Bioanalysis	2	Prof. Dr. apt. Sudjarwo, MS. (Course Coordinator) Prof. Dr. rer. nat. apt. M. Yuwono, MS.
11.	KIA636	Food Quality and Safety	2	Prof. Dr. apt. Noor Erma Sugijanto, MS. (Course Coordinator) Prof. Dr. apt. Purwanto Prof. Dr. apt. Sudjarwo, MS.
12.	KIA637	Advanced Clinical Analysis	2	Dr. apt. Isnaeni, MS. (Course Coordinator) Prof. Dr. apt. Djoko Agus Purwanto, M.Si.



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				Prof. Dr. apt. Amirudin Prawita
13.	KIA610	Microbiological Analysis	2	Prof. Dr. apt. Noor Erma Nasution S., MS. (Course Coordinator) Dr. apt. Isnaeni, MS.
14.	KIA638	Analysis Methods Development and Validation	2	Prof. Dr .rer. nat. apt. M. Yuwono, MS. (Course Coordinator)
15.	PNF698	Thesis Proposal	2	-
16.	KIA612	Doping Analysis	2	Prof. Dr .rer. nat. apt. M. Yuwono, MS. (Course Coordinator)
17.	KIA613	Chemical Pollutant Analysis	2	Prof. Dr. apt. Amirudin Prawita (Course Coordinator)
18.	KIA615	Environmental Impacts Analysis	2	Prof. Dr. apt. Sugijanto, MS. (Course Coordinator)
19.	KIA609	Forensic Analysis	2	Prof. Dr. apt. Djoko Agus Purwanto, M.Si. (Course Coordinator) Prof. Dr. rer. nat. apt. M. Yuwono, MS. Dr. Magdalena Sri Handajani, M.Si., DFM.
20.	KIA614	Genomic and Proteomic Analysis	2	Prof. Dr. apt. Djoko Agus Purwanto, M.Si. (Course Coordinator) Prof. Dr. apt. Sudjarwo, MS.
21.	PNF699	Thesis	6	-
22.	BIS604	Molecular Biology	2	Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D. (Course Coordinator) Prof. Dr. apt. Djoko Agus Purwanto, M.Si. Prof. Dr. apt. Sukardiman, MS. Prof. Dr. apt. Sudjarwo, MS.
23.	BIT625	Advanced Pharmaceutical Biotechnology	2	Dr. apt. Isnaeni, MS. (Course Coordinator) Prof. Dr. apt. Achmad Syahrani, MS. Prof. Dr. apt. Sugijanto, MS. Prof. Dr. apt. Noor Erma Nasution S., MS. Dr. apt. Achmad Toto Poernomo, M.Si.
24.	FAB601	Advanced Phytochemistry	2	Prof. Dr. apt. Achmad Fuad Hafid, MS. (Course Coordinator) Dr. apt. Aty Widyawaruyanti, M.Si. Drs. apt. Hadi Poerwono, M.Sc., Ph.D.
25.	FAB605	Phytotherapy	2	Prof. Dr. apt. Mangestuti Agil, MS. (Course Coordinator) Prof.Dr. apt. Sukardiman, MS. Prof. Dr. apt. Bambang Prayogo E.W., MS. Dr. apt. Wiwied Ekasari, M.Si.
26.	FAB604	Phytopharmacy	2	Prof. Dr. apt. Bambang Prajogo E.W, MS., Apt.( Course Coordinator) Dr. rer. nat. apt. M.L Ardhani D.L., S.Si., M.Pharm.Sci.



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27.	BIT616	Genetic Engineering	2	Prof. Dr. apt. Bambang Prajogo E.W., MS. (Course Coordinator) Prof. Dr. Ni Nyoman Tri Puspaningsih, M.Si. Prof. apt. Dr. Afaf Baktir, MS.
28.	KIO609	Organic Synthesis	2	Drs. apt. Hadi Poerwono, M.Sc., Ph.D. (Course Coordinator)
29.	KIM601	Advanced Medicinal Chemistry	2	Prof. Dr. apt. Siswandono, MS. (Course Coordinator)
30.	FAB602	Natural Substances Bioactivity	2	Dr. apt. Aty Widyawaruyanti, M.Si. (Course Coordinator) Prof. Dr. apt. Achmad Fuad Hafid, MS. Prof. Dr. apt. Sukardiman, MS. Prof. Dr. apt. Bambang Prayogo E.W, MS. Dr. apt. Idha Kusumawati, M.Si. Dr. rer.nat. apt. Mulja Hadi Santosa
31.	BIT611	Mammalian Cell Culture	2	Dr. rer.nat. apt. Mulja Hadi Santosa (Course Coordinator)
32.	KIA607	Natural Substances Analysis	2	Prof. Dr. apt. Achmad Fuad Hafid, MS. (Course Coordinator) Dr. rer.nat. apt. Mulja Hadi Santosa
33.	FAT606	Bioethics and Clinical Examination	2	apt. Chrismawan Ardianto, S.Farm., M.Sc., Ph.D. (Course Coordinator) Dr. apt. Aty Widyawaruyanti, M.Si. apt. Mahardian Rahmadi, S.Si., M.Sc., Ph.D.
34.	FAF604	Advanced Biopharmaceutics	2	Dr. apt. Budi Suprpti, M.Si. (Course Coordinator) Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D. Prof. apt. Esti Hendradi, M.Si., Ph.D.
35.	BIK602	Advanced Biochemistry	2	Dr. apt. Nuzul Wahyuning Diyah, M.Si. (Course Coordinator)
36.	KIO608	Physical Organic Chemistry	2	Drs. apt. Hadi Poerwono, M.Sc., Ph.D. (Course Coordinator) Dr. apt. Juni Ekowati, M.Si.
37.	FAT602	Molecular Pharmacology	2	Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D. (Course Coordinator) apt. Mahardian Rahmadi, S.Si., M.Sc., Ph.D. apt. Chrismawan Ardianto, S.Farm., M.Sc., Ph.D.
38.	FAT603	Pharmacometrics	2	apt. Chrismawan Ardianto, S.Farm., M.Sc., Ph.D. (Course Coordinator) Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D. Dr. apt. Aty Widyawaruyanti, M.Si.





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39	KIM602	Structure-Activity Interaction	2	Prof. Dr. apt. Siswandono, MS. (Course Coordinator)
40	KIM603	Drug Design	2	Prof. Dr. apt. Siswandono, MS. (Course Coordinator)
41	BIT633	Proteomics, Genomics, and Drug Development	2	Prof. Dr. apt. Siswandono, MS. (Course Coordinator)
42	KIM604	Enzyme and Drug Development	2	Prof. Dr. apt. Siswandono, MS. (Course Coordinator) Prof. Dr. apt. Purwanto
43	BIT609	Microbiology and Microbial Biotechnology	2	Dr. apt. Isnaeni, MS. (Course Coordinator) Prof. Dr. apt. Noor Erma Sugijanto, MS.
44.	BIT605	Biotransformation and Drugs Development	2	Prof. Dr. apt. Purwanto (Course Coordinator)
45.	FAK603	Advanced Pharmacokinetics	2	Prof. Dr. apt. Suharjono, MS. (Course Coordinator) Dr. apt. Budi Suprpti, M.Si.
46.	KIM606	New Drugs Development	2	Prof. Dr. apt. Siswandono, MS. (Course Coordinator)
47.	FAT621	Advanced Pharmacotherapy	2	Prof. Dr. apt. Suharjono, MS. (Course Coordinator) Dr. apt. Budi Suprpti, M.Si.
48.	FAM602	Pharmacogenomics- proteomics	2	apt. Mahardian Rahmadi, S.Si., M.Sc., Ph.D. (Course Coordinator) Prof. Dr. apt. Sudjarwo, MS.
49.	FAF635	Drugs Deliverance and Targeting	2	Prof. apt. Esti Hendradi, M.Si., Ph.D. (Course Coordinator) apt. Dewi Melani Hariyadi, S.Si., M.Sc., Ph.D. apt. Helmy Yusuf, S.Si., M.Sc, Ph.D. apt. Mahardian Rahmadi, S.Si., M.Sc., Ph.D. apt. Andang Miatmoko, S.Farm., M.Pharm.Sci., Ph.D.
50.	KIM605	Drugs Interaction	2	Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D. (Course Coordinator)
51.	FAM609	Drugs Surveillance	2	Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D. (Course Coordinator)
52.	BIK613	Molecular Biochemistry	2	Prof. Dr. apt. Purwanto (Course Coordinator)
53.	FAF603	Biopharmaceutical Products	2	apt. Mahardian Rahmadi, S.Si., M.Sc., Ph.D. (Course Coordinator) Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D. Prof. apt. Esti Hendradi, M.Si., Ph.D.
54.	FAK605	Clinical Pharmacokinetics	2	Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D. (Course Coordinator)



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55.	FAK601	Population Pharmacokinetics	2	Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D. (Course Coordinator)
56.	KIA621	Advanced Clinical Chemistry	2	Dr. apt. Isnaeni, MS. (Course Coordinator)
57.	BIK621	Neurobiology	2	apt. Mahardian Rahmadi, S.Si., M.Sc., Ph.D. (Course Coordinator) Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D.
58.	BII615	Molecular Immunology	2	Prof. apt. Junaidi Khotib, S.Si., M.Kes., Ph.D. (Course Coordinator)
59.	FAF601	Advanced Physical Pharmacy	2	Prof. apt. Esti Hendradi, M.Si., Ph.D. (Course Coordinator) Dr. apt. Dewi Isdiartuti, M.Si. Dr. apt. Noorma Rosita, M.Si. Prof. Dr. apt. Dwi Setyawan, S.Si., M.Si.
60.	FAF619	Nano-Particle Technology	2	Prof. apt. Esti Hendradi, M.Si., Ph.D. (Course Coordinator) Prof. Dr. apt. Retno Sari, M.Sc. Dr. apt. Noorma Rosita, M.Si. apt. Mahardian Rahmadi, S.Si., M.Sc., Ph.D.
61.	FAF636	Advanced Drug Delivery System	2	Prof. apt. Esti Hendradi, Apt., M.Si., Ph.D. (Course Coordinator) Prof. Dr. apt. Retno Sari, M.Sc. apt. Dewi Melani Hariyadi, S.Si., M.Sc, Ph.D. apt. Helmy Yusuf, S.Si., M.Sc, Ph.D. Dr. apt. M.L Ardhani D.L., S.Si., M.Pharm.Sci.
62.	FAF620	Polymer Pharmacy	2	Drs. apt. Hadi Poerwono, M.Sc., Ph.D. (Course Coordinator) Prof. Dr. apt. Retno Sari, M.Sc.
63.	FAF623	Transdermal Delivery System	2	Prof. apt. Esti Hendradi, M.Si., Ph.D. (Course Coordinator) Dr. apt. Tutiek Purwanti, M.Si. Prof. apt. Akhmad Kharis Nugroho, S.Si., M.Si., Ph.D. Dr. apt. Tristiana Erawati M., M.Si.
64.	FAF624	Inhalation Delivery System	2	Prof. apt. Esti Hendradi, MSi., Ph.D. (Course Coordinator) Prof. Dr. apt. Retno Sari, M.Sc. apt. Dewi Melani Hariyadi, S.Si., M.Sc, Ph.D.
65.	FAF641	Solids Preparation Formulation Design	2	Prof. Dr. apt. Dwi Setyawan, S.Si., M.Si. (Course Coordinator) Dr. apt. M.L Ardhani D.L., S.Si., M.Pharm.Sci.
66.	FAF642	Skin and Cosmetics	2	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator)



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				Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.
67.	FAF607	Cosmetics Formulation	2	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator) Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.
68.	FAF630	Cosmetics Safety	2	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator) Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.
69.	FAF640	Cosmetics Evaluation and Regulation	4	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator) Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.
70.	FAF643	Cosmetics Packaging an Indication	2	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator) Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.
71.	FAF606	Cosmetics Delivery System	4	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator) Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.
72.	FAF632	Anti-Aging Preparations	3	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator) Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.
73.	FAF633	Skin Bleaching Preparations	3	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator) Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.
74.	FAF611	Aromatherapy	2	Prof. Dr. apt. Mangestuti Agil, MS. (Course Coordinator) Prof. Dr. apt. Widji Soeratri, DEA.
75.	FAF612	Make-up Cosmetics	2	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator) Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.
76.	FAF613	Oral Hygiene Cosmetics	2	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator) Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.
77.	FAF614	Hair Cosmetics	2	Prof. Dr. apt. Widji Soeratri, DEA. (Course Coordinator) Dr. apt. Tristiana Erawati M., M.Si. Dr. apt. Noorma Rosita, M.Si.



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78.	FAM605	Pharmaceutical Services Management	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Dr. apt. Wahyu Utami, MS. apt. Hanni Prihastuti P, S.Si., M.Phil. Ph.D.
79.	MNP608	Pharmaceutical Marketing and Consumer Behaviour	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Dr. apt. Liza Pristianty, M.Si., MM. Dr. apt. Yunita Nita, S.Si., M.Pharm. apt. Andi Hermansyah, S.Farm., M.Sc., Ph.D.
80.	FAM604	Pharmaceutical Logistics Management	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Dr. apt. Abdul Rahem, M.Kes. Dr. apt. Wahyu Utami, MS. Dr. apt. Liza Pristianty, M.Si., MM. Dr. apt. Yunita Nita, S.Si., M.Pharm.
81.	HKD607	Pharmaceutical Ethics and Law	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Prof. Dr. apt. Wahono Sumaryono, APU. Dr. apt. Abdul Rahem, M.Kes. Dr. Lilik Pudjiastuti, SH., MH. apt. Andi Hermansyah, S.Farm., M.Sc., Ph.D.
82.	FAM606	Pharmacoepidemiology	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Dr. apt. Abdul Rahem, M.Kes. Dr. apt. Yunita Nita, S.Si., M.Pharm. apt. Elida Zairina, S.Si., MPH., Ph.D.
83.	KMA613	Policy Analysis	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Prof. Dr. apt. Wahono Sumaryono, APU. Dr. apt. Abdul Rahem, M.Kes. apt. Andi Hermansyah, S.Farm., M.Sc., Ph.D. Dr. Ernawaty, M.Kes., drg.
84.	PSI624	Organizational Behaviour	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Dr. Thinni N.R., Dra.,Ec., M.Kes. Dr. apt. Liza Pristianty, M.Si., MM. apt. Andi Hermansyah, S.Farm., M.Sc., Ph.D.
85.	MNS602	Health Management	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Prof. Dr. apt. Wahono Sumaryono, APU. Dr. Moch. Bagus Qomaruddin, M.Sc.



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				Dr. apt. Yunita Nita, S.Si., M.Pharm. apt. Elida Zairina, S.Si., MPH., Ph.D.
86.	SOK637	Professional Communication	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Dr. apt. Wahyu Utami, M.S. Titik Puji Rahayu, M.Comms., Ph.D. apt. Andi Hermansyah, S.Farm., M.Sc., Ph.D. apt. Anila Impian Sukorini, S.Si., M.Farm.
87.	FAM603	Pharmaco-Economics	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Dr. apt. Tri Murti Andayani, Sp.FRS. Dr. apt. Yunita Nita, S.Si., M.Pharm. apt. Gusti Noorizka V.A, S.Si., M.Sc. apt. Mufarrihah, S.Si., M.Sc. apt. Gesnita Nugraheni, S.Farm., M.Sc.
88.	MNS603	Health Insurance	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Dr. Djazuli Chalidyanto, SKM., MARS. apt. Andi Hermansyah, S.Farm., M.Sc., Ph.D. apt. Gesnita Nugraheni, S.Farm., M.Sc.
89.	FAM601	Pharmaceutical Information Technology	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Ira Puspitasari, S.T., M.T., Ph.D. apt. Andi Hermansyah, S.Farm., M.Sc., Ph.D. apt. Mahardian Rahmadi, S.Si., M.Sc., Ph.D.
90.	PSC614	Healthy Behaviour	2	Prof. Dr. apt. Umi Athiyah, MS. (Course Coordinator) Prof. Dr. Rika Subarniati, dr. Dr. apt. Liza Pristianty, M.Si., MM. apt. Hanni Prihastuti P, S.Si., M.Phil. Ph.D. apt. Ana Yuda, S.Si., M.Farm.