EXCELLENT WITH

MORALITY

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VISION

Becoming a department that excels in implementing education, research, and community service, especially in the field of pharmaceutical sciences at the national and international levels to produce graduates who are honest, faithful, able to develop both natural and modern pharmaceutical science and technology, open-minded, innovative, and able to balance their role as agents of change who are capable of competing at the national and international levels.

Department of Pharmaceutical Sciences
1. Providing an academic atmosphere and high quality standards in the teaching and learning process to produce graduates who excel in the field of pharmaceutical sciences.

2. Forming an effective and mutual collaboration in educational institutions, research centers, industries, hospitals and other health service centers, government agencies, professionals, and other community members both national and international in carrying out research and community services.

3. Collaborating with various agencies and non-governmental organizations in providing public information about the use of modern and natural medicines.

4. Striving to create a conducive working climate and academic atmosphere.

5. Enhancing research at the basic and applied levels in the field of pharmaceutical sciences in the use of natural resources, semi-synthetic, and synthetic to become innovative pharmaceutical products.

6. Continuing collaboration in education, research, and community services at the national and international levels for the development of the pharmaceutical sciences.

7. Organizing education, research and professional community services in pharmaceutical sciences.

Since the establishment of the Faculty of Pharmacy, Universitas Airlangga in 1963, 4 divisions have been formed, which are Prescriptions, Industrial Pharmacy, Pharmaceutical Chemistry, and Pharmaceutical Botany. In the restructuring of the organization, the Division of Prescriptions and Industrial Pharmacy is united into the Department of Pharmaceutics that consists of 3 (three) laboratories, namely the Laboratory for Prescription Formulation, Pharmaceutical Technology, and Pharmacokinetic Biopharmaceutical.

Within the demand for a new paradigm change, which is “pharmaceutical care”, therefore based on the Dean’s Decree No. 293/JO3.1.20/PP/2002, the organizational structure of the Department of Pharmaceutics changed to the Pharmaceutical Division which consists of the Laboratory of Physical Pharmacy, Pharmaceutical Solid dosage forms, Liquids, Semi Solids, Steriles, Cosmetics, Drug Delivery Systems, and Nutrition. The change in the structure of the department to a division is followed by a restructuring of the academic staff.

Furthermore, since 2007, the name has changed from the Division to the Department of Pharmaceutics in accordance with the Rector’s Decree no.9936/JO3/HK/2007.
For the Pharmaceutical Botany Division consists of 2 (two) laboratory rooms, which are Pharmaceutical Botany-Pharmacognosy and Phytochemistry. Subsequently, in 1984 this division changed its name to the Department of Pharmaceutical Biology with 4 (four) laboratories, which are: the Botanical Pharmacy-Pharmacognosy Laboratory, the Phytochemistry Laboratory, the Pharmaceutical Biotechnology Laboratory, and the Animal Testing Laboratory.

Since 2005, the Department of Natural Products has changed its name to the Department of Pharmacognosy and Phytochemistry. With the change in the organizational structure mentioned above, the Department of Pharmaceutical Chemistry changed its name to the Department of Pharmaceutical Chemistry with 4 (four) laboratories, namely the Synthesis Chemistry Laboratory, Pharmaceutical Analysis Laboratory, Medicinal Chemistry Laboratory, and Microbiology Laboratory.

On 16 December 2020, the three departments, namely the Department of Pharmaceutical Chemistry, the Department of Pharmaceutics, and the Department of Pharmacognosy and Phytochemistry were merged into one Department. In addition, within the department, there were 3 groups of expertise (KBK), which are the Pharmaceutical Chemistry, Pharmaceutics, and Expertise of Pharmacognosy and Phytochemistry.

Research focus of the Department of Pharmaceutical Sciences is the development formulation of natural ingredients derived from plants, marine biota, and synthetic drugs to improve the characteristics of active pharmaceutical ingredients and their delivery systems, design, and synthesis to improve the characteristics and activity of active pharmaceutical ingredients, grade, and quality analysis starting from active pharmaceutical ingredients to pharmaceutical formulations, both as drugs, food, and cosmetics in various bioactivities; such as anti-cancer, anti-male fertility, anti-malaria, anti-virus, anti-osteoporosis, anti-osteoarthritis, anti-diabetes, anti-hyperlipidemia, analgesic, anti-flatulent, anti-inflammatory, anti-thrombosis, immunology, anti-microbial, anti-amoebeic, and anti-aging.

Specifically, the research that has become the leading research covers the following topics:
- Ethnomedicin studies
- Natural Product
- Chemistry
- Drug Delivery Systems: micro- and nanoparticulate systems (liposomes and solid-lipid nanoparticles) for natural medicine and synthetic
- Biotechnology
- Pharmaceutical technology including solid dispersion, crystalline co-crystals, and inclusion complexes
- Vaccine Delivery System
- Cosmetics and Cosmetic Delivery System
- Design, drug discovery & development
- Analitical Development

RESEARCH FOCUS
The Natural Product Drug Discovery and Development group's research focuses on developing natural-based drugs for infectious and non-infectious diseases, as well as natural-based cosmetics and nutritional ingredients.

The Drug Development focuses on Bioassay, lead compound optimization, Structure Activity Relationship study, ADMET study, pre clinical trial (in vitro & in vivo testing).

Focuses on the development and validation of analysis methods for active substances, contaminants, solvents, heavy metals, biological preparations, microbiological analysis.

Focuses on the engineering of active substances and pharmaceutical excipients to improve physicochemical characteristics, mechanics, bioavailability and effectiveness, development of pharmaceutical formulation and preparation processes, development of effective and efficient pharmaceutical manufacturing processes.

Focuses on developing Modern and natural-based drug delivery systems for oral, parenteral, topical, transdermal and inhalation routes for the treatment of cancer, degenerative, infectious and non-infectious diseases.

Focuses on developing cosmetic product formulations and prototypes.
The main activity in the Department of Pharmaceutical Sciences is to implement the **THREE PILLARS OF HIGHER EDUCATION** covering the fields of Education, Research, and Community Services. In addition, the department also carries out other activities to support and develop the Department of Pharmaceutical Sciences, including holding seminars/conferences in the field of pharmaceutical sciences, and the Forum Group Discussion (FGD) with practitioners in the pharmaceutical industry.

**EDUCATION**

Activities:

2. Conducting education at the Master and Doctoral levels
3. Organizing international class programs with topic on traditional medicine, namely AMERTA and Summer course
4. Receiving International Inbound Student
5. Conducting International Visiting Lectures and Guest Lecture for Bachelor, Master, and Doctoral students Conducting guest lectures from Faculty of Pharmacy Alumni/Practitioners

**RESEARCH**

Activities:

1. Conducting research using funding sources from universities, the government (Ministry of Research and Technology (Kemenristek Dikti), Binarakes Research of Ministry of Health (Kemenkes) RI, and Educational Fund Management Institution (LPDP) and collaboration with other parties both National (traditional medicine industry) and International (government or university’s partner).
2. Establishing research collaborations with parties from National and International
3. Attending and organizing various webinars and seminars both national and international to disseminate research results
4. Writing Publications in various reputable national and international scientific journals
5. Writing books and book chapters
6. Joining joint research and outbound staff activities
7. Inviting inbound staff and adjunct professor
8. Producing pharmaceutical products as a result of research
COMMUNITY SERVICE

Activities:
1. Conducting community services to the community, both local, national, and international, such as providing knowledge and training on Good, Hygienic, and Halal Food Manufacturing Practices for Small Businesses, Correct Use of Food Additives for Mothers in Family Welfare Program (PKK), and Making of Traditional Medicines to the Community under the Small and Medium Enterprises (UKM), producing innovative traditional medicinal products, or Family Medicinal Plant (TOGA) Counseling.
2. Participating in community services with other faculties/institutions.
3. Participating in social services in the event of a natural disaster.
4. Organizing WUACD International community development programs.

STAFF

The Department of Pharmaceutical Sciences has staffs consisting of 17 Professors, 20 senior lecturers, 13 lecturers, and 6 junior lecturers.

Professors
1. Prof. Dr. apt. Amiruddin Prawita
2. Prof. Dr. apt. Purwanto
3. Prof. Dr. apt. M. Zainudin
4. Prof. Dr. apt. Mangestuti Agil, MS
5. Prof. Dr. apt. Wiji Soeratri, DEA
6. Prof. Dr. apt. Achmad Fuad, MS
7. Prof. Dr. apt. Suka Hardjono, MS
8. Prof. Dr. apt. Siswandono, MS
9. Prof. Dr. apt. Noor Erna Nasution, MS
10. Prof. Dr. apt. Sugijanto, MS
11. Prof. Dr. apt. H. Achmad Syahrani, MS
12. Prof. Dr. apt. Sudjarwo, MS
13. Prof. Dr. apt. Bambang Prajogo EW, MS
14. Prof. Dr. apt. Djoko Agus Purwanto, MSi
15. Prof. Dr. apt. Muhammad Faris Adrianto, S.Farm., M.Farm
16. Prof. Dr. apt. Rasa Sri, SSi, MSi
17. Prof. Dr. apt. Retno Widyowati, SSi, MPharm, PhD
18. Prof. Dr. apt. Tutik Sri Wahyuni, SSi, MSi, PhD
19. Prof. Dr. apt. Helmy Yusuf, SSi, MSc, PhD
20. Prof. Dr. apt. Tri Widiandani, SSi, Sp. FRS

Senior Lecturer
1. Dr. apt. Isnaeni, MS
2. Dr. apt. Asri Darmawati, MS
3. Dr. apt. Bambang Tri Purwanto, MS
4. Dr. apt. Herra Studiawan, MS
5. Dr. apt. Tristiana Erawati M, MSi
6. Dr. apt. Esti Hendradi, MSi, PhD
7. Dr. apt. Retno Sari, MSc
8. Dr. apt. Noorma Rosita, MSi
9. Dr. apt. Aty Widyawaruyanti, MSi
10. Dr. apt. Dewi Isardiartuti, MSi
11. Marcellino Rudyanto, MSi, PhD
12. Dr. apt. Suzana, MSi
13. Dr. apt. Juni Ekowati, MSi
14. Dr. apt. Nuzul Wahyuning Diyah, MSi
15. Dr. apt. Hadi Poerwono, MSc, PhD
16. Dr. apt. Dewi Melani Hariyadi, SSi, MPhil, PhD
17. Dr. apt. R. Retno Widyawati, SSi, MPharm, PhD
18. Dr. apt. Tutik Sri Wahyuni, SSi, MSi, PhD
19. Dr. apt. Helmy Yusuf, SSi, MSc, PhD
20. Dr. apt. Tri Widiandani, SSi, Sp. FRS

Lecturer
1. Dr. apt. Achmad Toto Poernomo, MSi
2. Dr. apt. Tutiek Purwanti, MSi
3. Dr. apt. Wiwied Ekasari, MSi
4. Dr. apt. Idha Kusumawati, SSi, MSi
5. Dr. apt. Riesta Primaharinastiti, SSi, MSi
6. Dr. apt. Muh. Agus Syamsur Rijal, SSi, MSi
7. Dra. apt. Rahmawati, MS
8. Dr. rer. nat. apt. ML Ardhani Dwi Lestari, SSi, MPharm
9. Dr. apt. Suciati, SSi, MPhil, PhD
10. Dr. apt. Melanny Ika Sulistyowaty, SFarm, MSc, PhD
11. Dr. apt. Andang Miatmoko, SFarm, MPharm, Sci, PhD
12. Dr. apt. Febri Annuryanti, SFarm, M.Sc.
13. Dr. apt. Kholis Amalia Nofianti, SFarm, M.Sc.

Junior Lecturer
1. apt. Rice Disi Oktarina, SFarm, MSc
2. apt. Neny Purwasari, SFarm, MSc
3. apt. Muhammad Faris Adrianto, S.Farm., M.Farm
4. apt. Dini Retnowati, SFarm, MSc
5. apt. Abhimata Paramanandana, SFarm, MSc
6. apt. Diajeng Putri P, SFarm, MSc

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