



**SUPERIOR
ACCREDITATION**



UBAYA
UNIVERSITAS SURABAYA



Study Programs

The Master of Clinical Pharmacy study program at the University of Surabaya includes common core subjects in Pharmaceutical Care Sciences, track-specific core subjects, and a Master's thesis. The common core subjects cover various topics that all master students must take. The track-specific subjects cover a variety of more specific topics for master students in the Clinical Pharmacy concentration.

Delivery Methods

The Master of Clinical Pharmacy study program delivers hard skills and interpersonal skills in balance. The well-developed interpersonal capabilities are regarded as extremely important besides knowledge; therefore, the study program applies delivery methods such as class lectures, tutorials, individual and group problem-based learning, class and group discussion, practical work in medical centers/hospitals and clinics, presentation, and final project/thesis/internship. All subjects are delivered by Ubaya scholars and experts, health practitioners, clinical pharmacists from hospitals, and Regulatory Affairs.



Master of Clinical Pharmacy

Postgraduate Study Program
Faculty of Pharmacy
University of Surabaya



Information

Faculty of Pharmacy University of Surabaya
Jl. Raya Kalirungkut, Surabaya 60293
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Introduction

The Master of Clinical Pharmacy at the University of Surabaya is delivered to respond to the need for expertise in Clinical Pharmacy that works directly with medical doctors, other healthcare professionals, and patients to ensure that the medications prescribed for patients contribute to optimal health outcomes. The study program aims to prepare graduates to work in healthcare environments, such as hospitals, affiliated outpatient clinics, emergency departments, community pharmacies, medical doctor's offices, community-based clinics, nursing homes, managed care organizations, and university lecturers.

The study program was established in 2005 and has recently graduated more than 200 clinical pharmacists. The academic activities are conducted in 1.5 to 2 years that cover lectures, tutorials, interprofessional discussions, seminars, practical activities, work experiences in the hospital, written tests, oral tests, proposals, thesis, and bedside examinations. The participants of this study program must hold a Bachelor of Pharmacy degree, have completed Pharmacy Professional Program, and be licensed as a Pharmacist (Apt).

Vision

Developing, Transforming, and Disseminating Advanced Community-Clinical Pharmacy and Pharmaceutical Manufacturing through Research, Education and Community Services with excellency in Advanced Pharmaceutical Manufacturing and Evidence Based Medicine towards Better Quality of Life.

Mission

- ◆ Providing advanced pharmaceutical knowledge and skills;
- ◆ Producing graduates with superior and reliable character, competence, and pharmaceutical skills;
- ◆ Developing graduates who are able to cooperate well and communicate effectively with other health professionals and patients;
- ◆ Generating graduates who are able to integrate and develop pharmaceutical knowledge and skills and fully actualize themselves in pharmacy practice in hospitals and/or community settings as well as in pharmaceutical manufacturers;
- ◆ Promoting rational use of medicines and respecting the patient's choice;
- ◆ Proactively establishing cooperation with relevant institutions at the regional, national and international levels.



PROGRAM STRUCTURE

Master of Clinical Pharmacy

Semester 1

Subject Name	Credit Units
961411 Experimental Design and Statistics	2
961441 Novel Drug Delivery and Drug Targeting	2
961421 Evidenced-base medicine	2
961431 Pharmacoeconomy and Pharmacoepidemiologi	2
961212 Pathophysiology and Management of Cardiovascular Disease	3
961222 Pathophysiology and Management of Respiratory Disease	3
961232 Pathophysiology and Management of Tropical Disease and Special Condition	2
961413 Applied Pharmacy Practices I	1
Total	17

Semester 2

Subject Name	Credit Units
962411 Pharmacokinetic and Pharmacodinamic	2
962212 Pathophysiology and Management of Endocrine System	2
962222 Pathophysiology and Management of Gastro Interstitial Disease	2
962232 Pathophysiology and Management of Musculoskeletal Disease	2
962242 Pathophysiology and Management of Neurology Disease and Psychiatric	2
962252 Pathophysiology and Management of Renal and Liver Disease	3
962211 Social Pharmacy and Patient-Base Care Concept	2
962413 Applied Pharmacy Practices II	1
Total	16

Semester 3

Subject Name	Credit Units
963011 Pathophysiology and Management of Infectious Diseases	2
963512 Drugs for Surgery and iv Admixture	1
963031 Applied Pharmacy Practices III	2
963113 Thesis Proposal	2
Total	7

Semester 4

Subject Name	Credit Units
964113 Thesis	6
Total	6

Total Program 43



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Concentration

Industrial Pharmacy Sub-Concentration:

1. Pharmaceutical Products
2. Cosmetic Products
3. Natural/herbal Products

Meanwhile, the elective subjects allow students to choose their specialization in Pharmaceutical Products, Cosmetic Products, or Natural/herbal Products.

Information

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Master of Industrial Pharmacy

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Introduction

The Master of Industrial Pharmacy study program is an international Postgraduate Program developed in response to the need for expertise in the pharmaceutical industry, research, and regulatory affairs. Considering that about 90% of prescriptions in Europe and the U.S. are generics and currently, none of the pharmaceutical industries in Indonesia and South-East Asia have developed new chemical entities (NCE), Ubaya, therefore, develops this Master program to prepare graduates to work in the development and production at dosage forms and can carry responsibility for the quality of the products in a challenging pharmaceutical industry.

The program is developed in collaboration between Ubaya, Indonesia, and the University of Groningen, The Netherlands. It is also developed in partnership with the Pharmaceutical Industries, The National Agency of Drug and Food Control, and the Ministry of the Health of the Republic of Indonesia.

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PROGRAM STRUCTURE

Master of Industrial Pharmacy

Semester 1

Subject Name	Credit Units
961411 Experimental Design and Statistics	2
English for Scientific Communication	0
961441 Novel Drug Delivery and Drug Targeting	2
961421 Evidenced-base medicine	2
961431 Pharmacoeconomy and Pharmacoepidemiology	2
Elective Course:	2
961632 Pharmaceutical Microbiology and Sterilization	
961642 Pharmaceutical Product Development	
961652 Particle Science and Powder Technology	
961612 Cosmetic Science and Technology	
961622 Natural Products Technology	
961312 Facility Design and Project Management	3
961322 Pharmaceutical Regulation	3
961413 Placement in Pharmaceutical Industry I	1
Total	17

Semester 2

Subject Name	Credit Units
962411 Pharmacokinetic and Pharmacodynamic	2
962312 Pharmaceutical Quality Management	3
962322 Pharmaceutical Manufacturing and Operations Management	3
962322 Physicochemical Aspects Related to Dosage Form Development	3
Elective Course:	3
962622 Techniques in Pharmaceutical Technology	
962632 Problem Solving on Production (upscaling) and Technology	
962612 Cosmetic Product Development	
962432 Placement in Pharmaceutical Industry II	1
Total	15

Semester 3

Subject Name	Credit Units
963321 Analytical Development and Biopharmaceutical analysis	3
963413 Placement in Pharmaceutical Industry III	2
963113 Thesis Proposal	2
Total	7

Semester 4

Subject Name	Credit Units
964113 Thesis	6
Total	6
Total Program	43