



UNIVERSITAS AIRLANGGA
Excellence with Morality



UNIVERSITAS AIRLANGGA

POSTGRADUATE PROGRAMS

Faculty of Science and Technology



INTRODUCTION

The Faculty of Science and Technology, Universitas Airlangga is committed to play a leading role in education both at the national and international levels. As part of the academic community, we are constantly evolving towards quality improvement with global standards. Improving the performance of education, research and innovation, as well as community service is carried out with the aim of achieving greater education for world civilization. All efforts and policies in the development of science and technology can be seen from the breadth of the national and international partnership network.

In improving the quality of postgraduate programs, we have collaborated with hundreds of institutions from various regions in the world, either in the form of student exchanges, staff exchanges, joint research, or other forms of cooperation. All aspects of enrichment including soft skills, creativity, entrepreneurship, internship experience, leadership experience that equip graduates' learning outcomes are carried out during the learning process. That is the hallmark of our postgraduate program.

We offer Masters Programs (Master of Biology, Master of Chemistry, Master of Biomedical Engineering, and Master of Mathematics) and Doctoral Program of Mathematics and Natural Sciences. We are committed to moving forward towards the latest global developments and preserving Indonesian local wisdom and values.

We hope that this booklet can provide information and benefits for all parties, especially for prospective postgraduate students of the Faculty of Science and Technology, Universitas Airlangga.

Best regards.

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Introduction



List of Contents



About Us



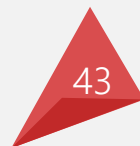
Master of Biology



Master of Chemistry



Master of Biomedical Engineering



Master of Mathematics



Doctor of Mathematics and Natural Sciences



HimaPASCA



Registration of Prospective Students



Scholarships



Person in Charge



“FROM FUNDAMENTAL & APPLIED SCIENCE TO SUSTAINABLE DEVELOPMENT”

Motto of Faculty of Science and Technology

ABOUT US

8

Undergraduate Programs

4

Master Programs

1

Doctoral Program

4

Excellent Accredited Study Programs

4

ASIN Accredited Study Programs

7

Accredited A Study Programs

A

University Accreditation

369

QS World University Rankings

100+

Researches per year

37

Research Groups

21

Professors

*as of July 2022



Surabaya, Indonesia



Master Program

BIOLOGY

www.mbiologi.fst.unair.ac.id

VISION

To be a study program that excels at the international level in the development of tropical living natural resources to improve environmental quality and health based on religious morals

MISSIONS

01

To organize quality education so that graduates are able to solve community problems in the field of Biology in everyday life

02

To carry out research in the field of tropical living natural resources to improve environmental quality and health

03

To organize community service activities based on research results to solve problems in society

04

To prepare graduates for further education

OBJECTIVES

01

To produce graduates who are able to solve societal problems in the field of Biology in everyday life

02

To produce research that supports the development of the field of tropical living natural resources to improve environmental quality and health, and is able to publish research results nationally and internationally

03

To carry out community service related to the application of biology as a result of teaching and research on an ongoing basis to solve problems in society

04

To produce graduates who can take further education

Career Profiles

ACADEMICS

01

As academics, graduates of Master of Biology can work in the field of Research & Development (R&D). Graduates of Masters of Biology are expected to have a high interest in science, be able to analyze problems in the field of Biology through an inter or multidisciplinary approach, be able to evaluate problems in the field of biology and their professional practice through research to produce innovative and tested works, be able to design and conduct research in the field of biology based on the principles of the scientific method, be able to write scientific papers (journals/books/others and communicate their work orally on a national and international scale

RESEARCHERS

02

As researchers, graduates from Masters of Biology can become research staff in research institutions. Graduates of Masters of Biology are expected to be able to evaluate problems in the field of biology and their professional practice through research to produce innovative and tested work, able to analyze problems in the field of Biology through an inter or multidisciplinary approach, able to design and conduct research in the field of Biology based on the principles of the scientific method, and able to write scientific papers in national or international journals and communicate research results orally in national or international seminars

CONSULTANTS AND/OR EXPERTS

03

As consultants or experts, graduates of Masters of Biology can work in the fields of health, agriculture, non-governmental organizations, the field of biotechnology products, the field of biological natural resources such as National Parks, Nature Reserves, Ministry of Environment, Ministry of Agriculture and Forestry, and Ministry of Health. Graduates of the Masters of Biology are expected to be able to analyze problems in the field of Biology through an inter or multidisciplinary approach and be able to communicate information in the field of Biology verbally in national or international seminars

ENTREPRENEURS

04

As entrepreneurs, graduates of Master of Biology are able to manage a business. Graduates of Master of Biology are expected to have the ability to think creatively, imaginatively, and empower themselves for the benefit and good of their surroundings

CURRICULUM

The Biology Master Program offers 4 areas of interest,

- ENVIRONMENTAL BIOLOGY
- MICROBIOLOGY
- ANIMAL PHYSIOLOGY
- PLANT TISSUE CULTURE



“The minimum credits that must be taken is 41-42 credits depending on the area of interest.”

List of Courses

1 SEMESTER 1

COMPULSORY COURSES

Research Methodology
Ecology and Environmental Science
Developmental Biology
Biostatistic
Philosophy and Bioethics
Ecotoxicology*
Microbial Analysis Techniques**
Practical Work of Microbial Analysis Techniques**
Molecular Analysis Techniques#
Practical Work of Molecular Analysis Techniques#
Plant Morphogenesis##

ELECTIVE COURSES

Translational Ecology
Biology of Population
Bioremediation
Industrial Microbiology
Immunology of Reproduction
Animal Reproductive Technique
Physiology of Plant Nutrients
Plant Biochemistry

2 SEMESTER 2

COMPULSORY COURSES

Molecular of Biology and Bioinformatics
Taxonomy and Biosystematic
Scientific Writing
Colloquium §
Environmental Sampling Techniques*
Practical Work of Environmental Sampling*
Microbial Physiology**
Adaptation Physiology#
Selected Topics of Plant Tissue Culture##
Practical Work of Selected Topics of Plant Tissue Culture##

ELECTIVE COURSES

Coastal and Marine Ecology
Environmental Management
Microbial Ecology
Medical Microbiology
Animal Cell and Tissue Culture
Comparative Endocrinology
Plant Biotechnology
Nutrient Physiology

3 SEMESTER 3

COMPULSORY COURSES

Seminal of Thesis Proposal §

4 SEMESTER 4

COMPULSORY COURSES

Thesis Research Results §
Thesis and Publication §

§ Open semester courses

* Compulsory courses of Environmental Biology

** Compulsory courses of Microbiology

Compulsory courses of Animal Physiology

Compulsory courses of Plant Tissue Culture

Graduation Requirements

- Have passed $\geq 41-42$ credits (according to areas of interest) and have passed all required courses
- GPA ≥ 3.00
- Have published the results of his thesis research in journals or proceedings with minimal status *accepted*
- Have an ELPT (English Language Proficiency Test) score of ≥ 475 carried out by the Language Center of Universitas Airlangga

Photo credit: unair.ac.id



Study Program Excellence

1

Has been accredited A by BAN PT
(2020-2025)

2

Graduate degree:
Master of Science (M.Si)

3

Period of study is 4 semesters;
maximum 8 semesters. For those
who excel can take 3 semesters.

4

Lecturers qualification :
Doctoral (44%) and
Professor (56%)

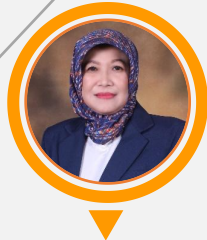
5

Laboratory Facilities: Lab. Molecular Biology;
Lab. Plant Physiology; Lab. Histology; Lab.
Microbiology; Lab. Ecology; and shared
laboratory at the Institute of Tropical Disease
(ITD) Universitas Airlangga

Lecturers



Prof. Bambang Irawan, M.Sc.



Prof. Dr. Edy Setiti Wida Utami, M.S.



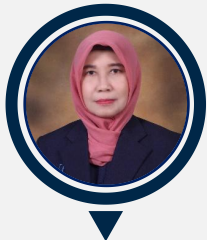
Prof. Drs. Win Darmanto, M.Si., PhD.



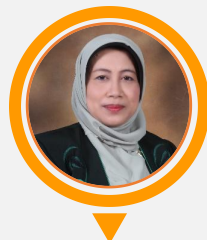
Prof. Dr. Ir. Agoes Soegianto, DEA.



Prof. Dr. Y. Sri Wulan Manuhara, M.Si.



Prof. Dr. Alfiah Hayati, M.Kes.



Prof. Dr. Sri Puji Astuti Wahyuningsih, M.Si.



Prof. Hery Purnobasuki, M.Si., Ph.D.



Dr. Salamun, M.Kes.



Dr. Hamidah, M.Kes.



Dr. Dwi Winarni, M.Si.



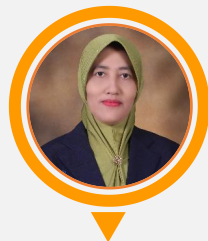
Dr. Nimatuzahroh



Dr. Moch. Affandi, M.Si.



Dr. Fatimah, S.Si., M.Kes



Dr. Junairiah, M.Kes.



Dr. Listijani Soehargo

Research Groups



Ecological Health Biology

Toxocology test and development of feed supplements and aquaculture

Environmental assessment based on environmental genetics

Production of new antimicrobial compounds sourced from microorganisms

Production of biosurfactants derived from microorganisms

Potency / Toxicity Testing and Production of Standardized Herbal Medicines for Degenerative Diseases / Diabetes mellitus, Cancer and Tissue Fibrosis

Wildlife Ecology Genetics

Microbiome engineering to improve the quality of food and medicinal plants

Development of microorganism-based biological fertilizers

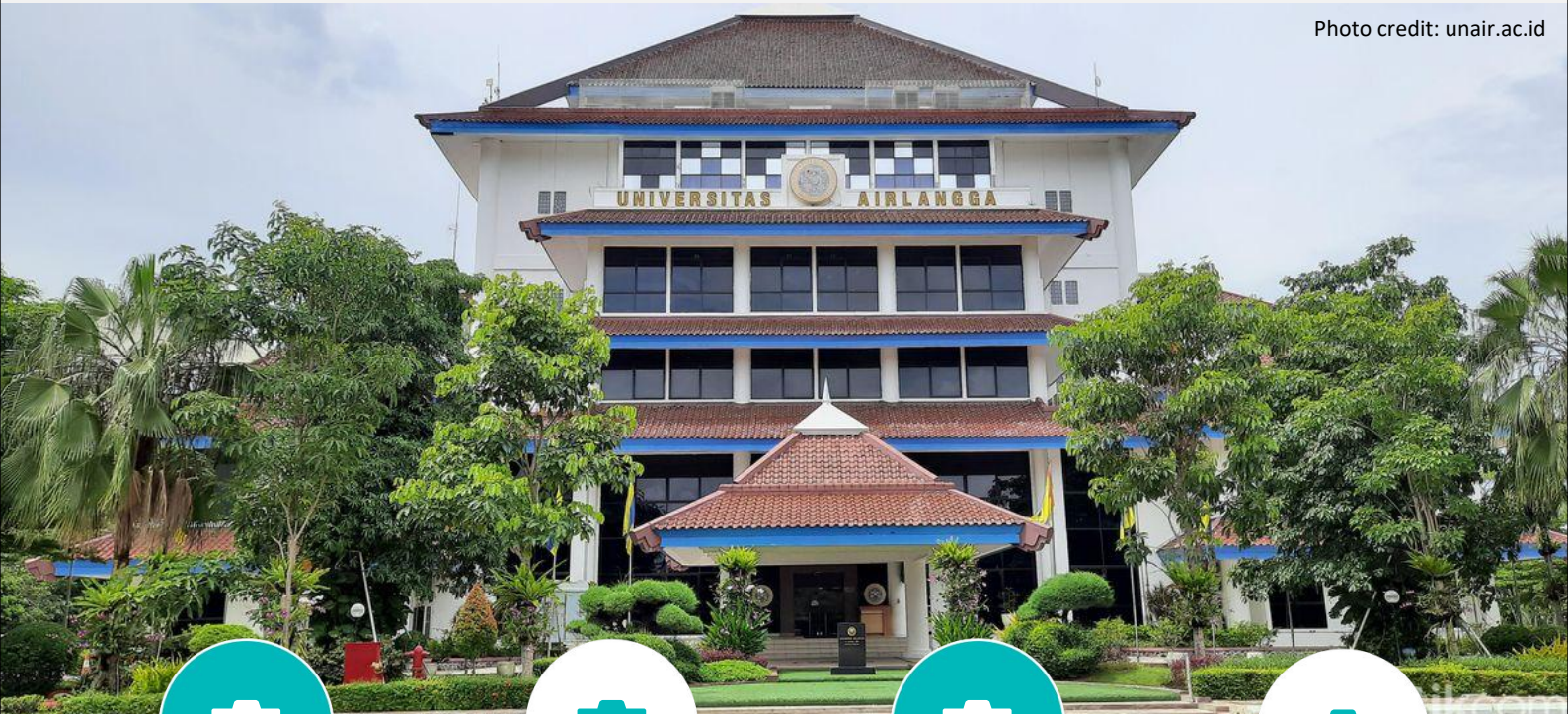
Development of microorganism-based disease vector biolarvicides

Exploration of the biodiversity of microorganisms with a metagenomic approach

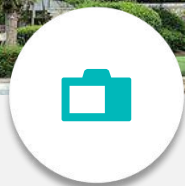
Exploration and production of drug candidates from the synthesis of organic compounds and isolation of natural materials for degenerative diseases, diabetes mellitus, and cancer

Application Requirements

Photo credit: unair.ac.id



Have an undergraduate GPA > 2,75



Hold a Bachelor's Degree in Biology or equivalent



Have a research proposal plan



Admission: open semester (odd and even semester)



GALLERY



Master Program of
B I O L O G Y

FACULTY OF SCIENCE AND TECHNOLOGY
U N I V E R S I T A S A I R L A N G G A

Campus C Jl. Dr. Ir. H. Soekarno, Mulyorejo, Surabaya 60115
Phone. (031) 5936501 Fax (031) 5936502
Official website: www.mbiologi.fst.unair.ac.id



Master Program

CHEMISTRY

www.mkimia.fst.unair.ac.id

VISION

To be a study program that excels at national and international levels in the fields of biosciences, synthesis, and chemical analysis according to the principles of sustainable technology through basic and applied science education and research, for the welfare of society based on religious morality

MISSIONS

- 01** To organize quality chemistry education based on developments in science and technology, the needs of the national and international job market
- 02** To develop innovative basic and applied science research based on scientific and technological developments
- 03** To carry out community service as a form of embodiment of social responsibility for empowering and improving the quality of life of the community
- 04** To carry out collaboration with government and private institutions at the national and international levels for the sustainability of program development

OBJECTIVES

- 01** To carry out deepening or expansion of chemical or applied chemistry knowledge by producing models/methods/theory development that are accurate, tested, innovative, and can be scientifically published in nationally or internationally accredited scientific journals
- 02** To solve science and technology problems related to chemical structure and properties at the micro and macro molecular level, through experimental approaches, theoretical deduction or computation/simulation
- 03** To develop the benefits of chemical science so that it can be applied to a wider scope in the fields of health, industry and the environment
- 04** To contribute to the planning and management of a research roadmap in chemistry through an inter- or multidisciplinary approach



Photo credit: news.unair.ac.id

Photo Credit:
Unair News

Career Profiles

01

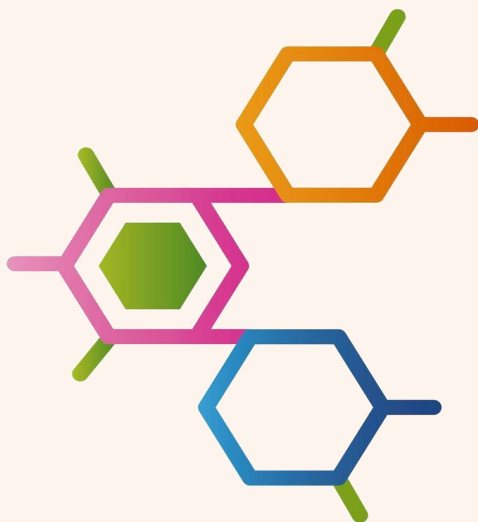
ACADEMICS

Academics who are able to deepen and expand chemistry or applied chemistry by producing models/methods/theory development that are accurate, tested, innovative, and can be scientifically published in nationally or internationally accredited scientific journals

02

RESEARCHERS

Researchers who are able to contribute to planning a research roadmap in chemistry through an inter- or multidisciplinary approach



03

EXPERTS

Experts who are able to solve complex chemistry problems through an inter- or multidisciplinary approach.

PROGRAMS OFFERED

Regular Program

For those who graduated from undergraduate programs in science, chemistry education, & health science

Fast Track Program

- Active students of the 6th semester of undergraduate program from universities with A accreditation
- Students can complete bachelor and master programs within 5 years

Double Degree Program

- In collaboration with Universiti Malaya (UM), Malaysia
- Students will obtain 2 diplomas (M.Si. from Universitas Airlangga and M.Sc. from Universiti Malaya)



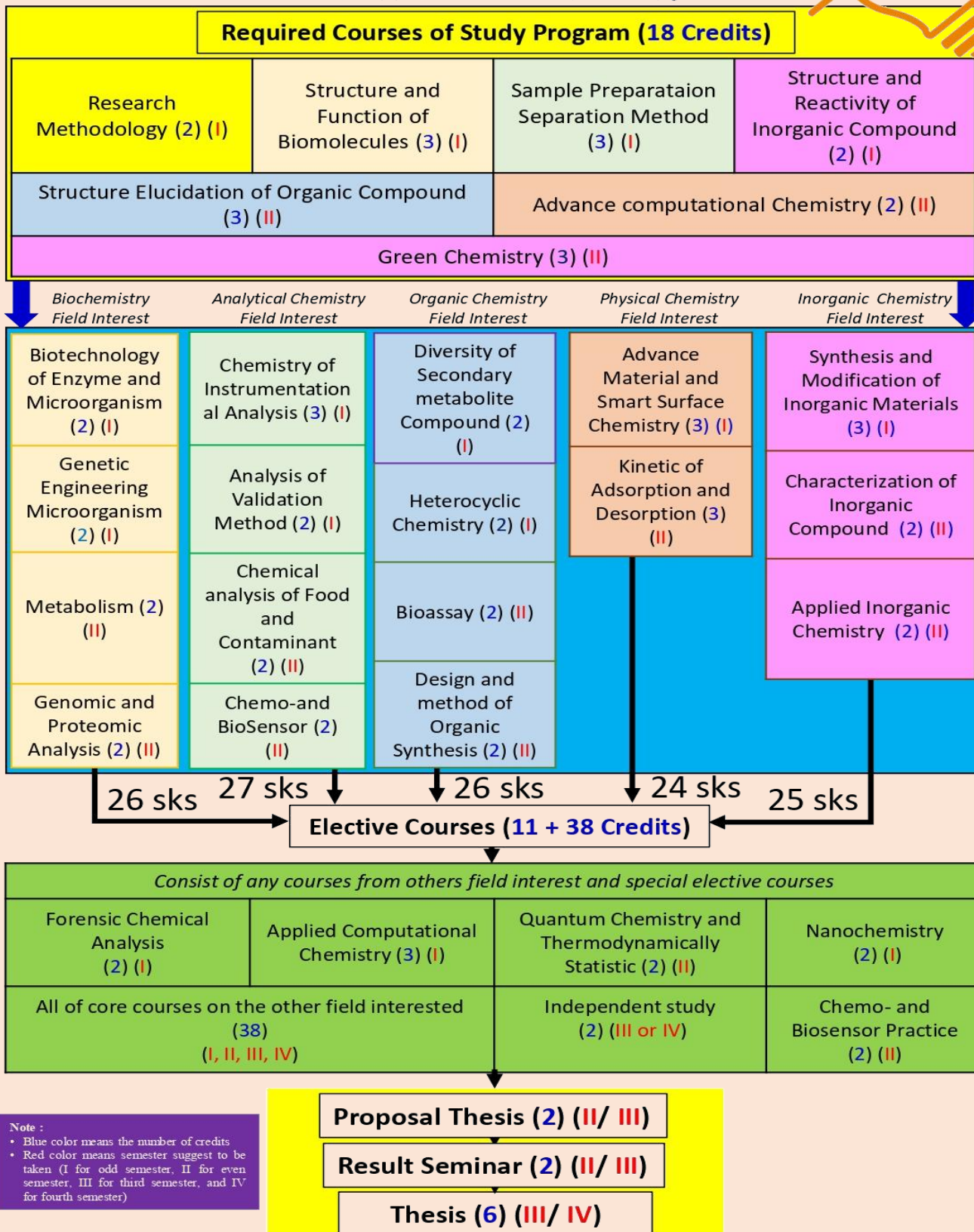
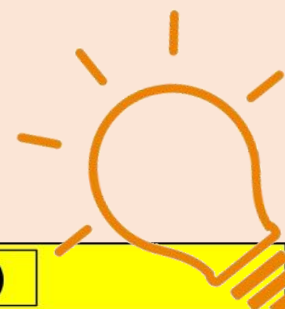
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5 Areas of Interest

Biochemistry
Organic Chemistry
Analytical Chemistry

Physical Chemistry
Inorganic Chemistry

Curriculum Structure



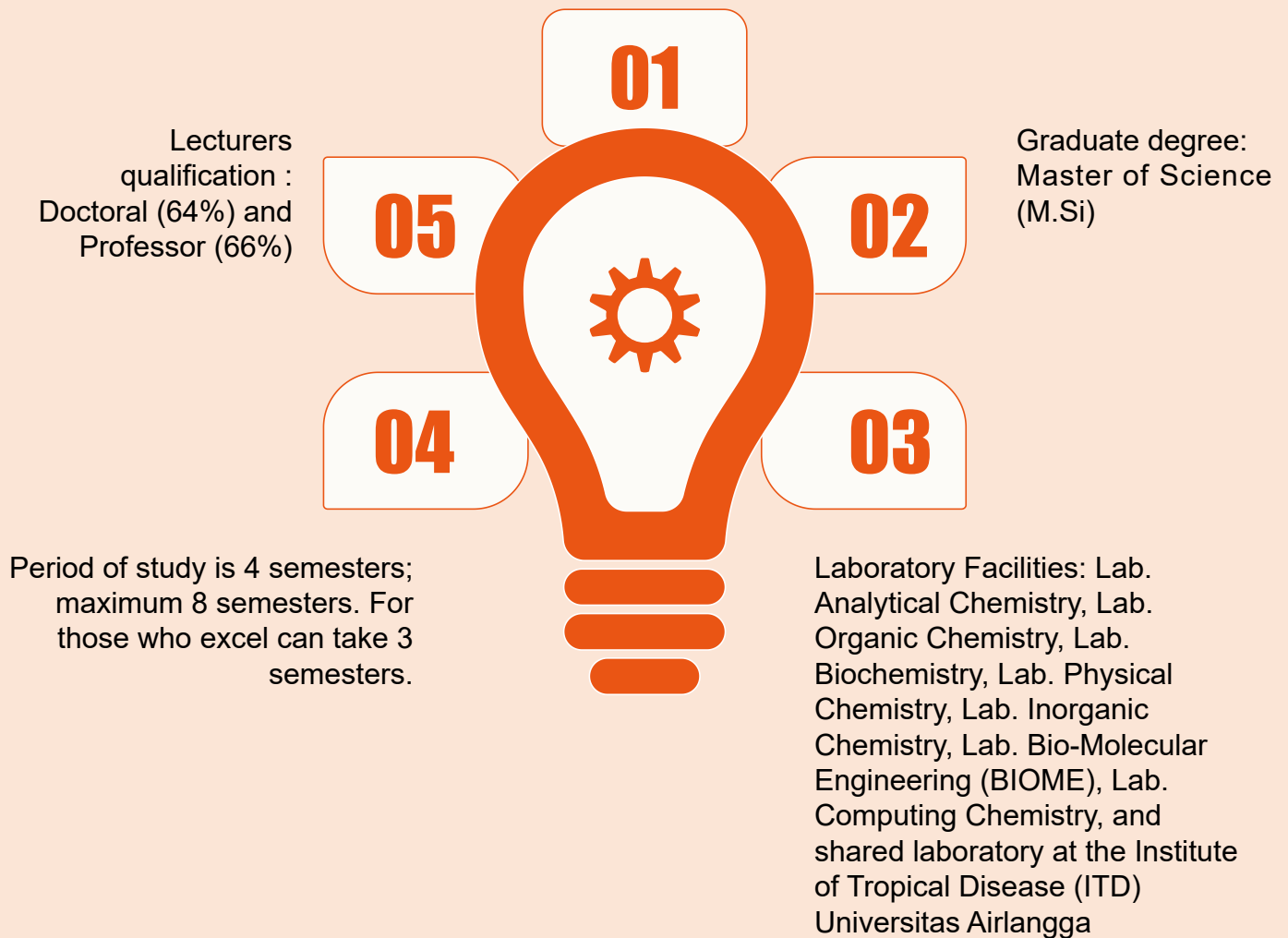
Note :

- Blue color means the number of credits
- Red color means semester suggest to be taken (I for odd semester, II for even semester, III for third semester, and IV for fourth semester)



Study Program Excellence

Has been accredited A by BAN PT
(2018-2023)



Lecturers

BIOCHEMISTRY



Prof. Dr. Ni Nyoman Tri Puspaningsih, M.Si.
ni-nyoman-t-p@fst.unair.ac.id

Proteomic and genomic analysis of lignocellulosic enzymes



Prof. Dr. Afaf Baktir, Dra., M.S.
afaf-b@fst.unair.ac.id

Enzymatic-based biosensor;
Exploration of enzyme for health and industry



Dr. Sri Sumarsih, M.Si.
sri-s@fst.unair.ac.id

Enzymes for organic waste treatment



Prof. Dr. Purkan, S.Si., M.Si.
purkan@fst.unair.ac.id

DNA recombinant on tropical disease; Modified biotechnology product



Ali Rohman, S.Si., M.Si. Ph.D.
alirohman@fst.unair.ac.id

Bioinformatic

ORGANIC CHEMISTRY



Prof. Tjitjik Srie Tjahjandarie, Dra., Ph.D.
tjitjiktjahjandarie@fst.unair.ac.id

Organic synthesis



Prof. Dr. Pratiwi Pudjiastutie, M.Si.
pratiwi-p@fst.unair.ac.id

Alkaloid isolation from Erihrina and Stemona genus



Dr. Alfinda Novi Kristanti, DEA.
alfinda-n-k@fst.unair.ac.id

Natural product and secondary metabolic



Prof. Dr. Nanik Siti Aminah, M.Si.
nanik-s-a@fst.unair.ac.id

Antioxidant activity of phenolic compounds



Dr. Hery Suwito, M.Si.
hery-s@fst.unair.ac.id

Design and synthesis of bioactive compounds



Prof. Dr. Mulyadi Tanjung, M.Si.
mulyadi-t@fst.unair.ac.id

Natural products chemistry



Rico Ramadhan, S.Si., M.P., Ph.D.
rico.ramadhan@fst.unair.ac.id

Natural products chemistry

Lecturers

INORGANIC CHEMISTRY



**Prof. Dr. Hartati, Dra.,
M.Si.**

hartati@fst.unair.ac.id

Synthesis of solid state catalysts for
organic synthesis



**Dr. Alfa Akustia Widati, S.Si,
M.Si.**

alfa-a-w@fst.unair.ac.id

Inorganic surface chemistry



**Satya Candra Wibawa
Sakti, S.Si., M.Sc., Ph.D.**

satya.sakti@fst.unair.ac.id

Advanced materials for water
treatments

ANALYTICAL CHEMISTRY



Dr. Muji Harsini, M.Si.

muji_harsini@yahoo.co.id

Chemo- and bio-sensors;
electrochemical degradation of
textile waste



**Dr. rer. nat. Ganden
Supriyanto, Dipl. EST., M.Sc.**

ganden88@yahoo.com

Photometrical biosensor;
bioremediation; and waste treatment



Dr. Miratul Khasanah, M.Si.

miratulkhasanah@gmail.com

Chemo-sensor and electroanalysis



**Yanuardi Raharjo, S.Si.,
M.Sc., Ph.D.**

yanuardiraharjo@fst.unair.ac.id

Sample preparation, microextraction,
and membrane technology

PHYSICAL CHEMISTRY



Drs. Imam Siswanto, M.Si.

imamsiswanto@fst.unair.ac.id

Computational Chemistry



**Dr. Handoko
Darmokoesoemo, DEA.**

handoko-d@fst.unair.ac.id

Absorbent materials



**Mochamad Zakki Fahmi,
S.Si, M.Si., Ph.D.**

m.zakki.fahmi@fst.unair.ac.id

Medical-purposed nanomaterial,
polymer and fly ash-based geopolymer

Research Group

Nanoparticles and drug delivery

Membrane Science & Technology Research Group

Inorganic Materials

Development Method of Analysis

Supra Modification and Nano Micro-Engineering

Environmental Technology

Polymicrobial Biofilms and Antibiotic Resistance

Center for testing the potency and toxicity of natural ingredients for food and standardized medicines



Research Centre for Bio-Molecules Engineering

Separation Science and Technology Towards Green Chemistry

Indonesian Medicinal Plant Biotechnology

Natural Materials Organic Chemistry

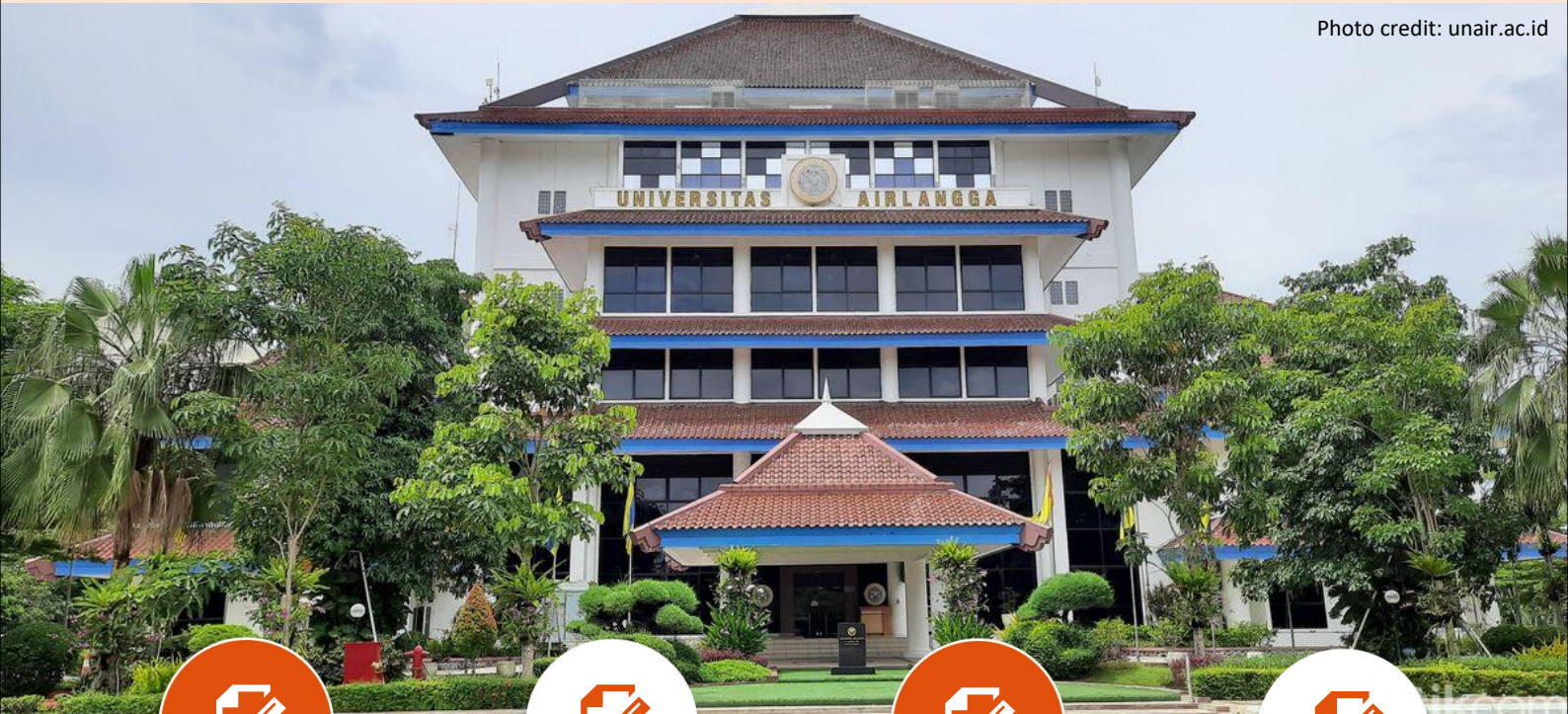
Chemosensor and Biosensor

Exploration and synthesis of bioactive compounds

Research Group of Biochemical Engineering- (BIOME): Enzyme Technology, Genomic and Proteomic Analysis, Bioinformatics, Bioprocess Technology, Polymicrobial Biofilm, Applied microbiology and bioresource technology)

Application Requirements

Photo credit: unair.ac.id



Have an undergraduate GPA > 2,75



Hold a Bachelor's Degree in Chemistry, Chemistry education, and health science



Have a research proposal plan



Admission: open semester (odd and even semester)



GALLERY



Disinfektan Anolyte Aman bagi Kesehatan

Pembuktian secara Klinis Seratus Kali Lebih Efektif daripada Pemutih

SURABAYA, Jawa Pos – Penggunaan cairan disinfektan kini menjadi kontroversi di kalangan pakar kesehatan. Kandungan di dalam cairan disinfektan dianggap memiliki risiko bagi kesehatan manusia. Karena itu, pakar Universitas Airlangga (Unair) menginisiasi penggunaan disinfektan dari anolyte (hasil elektrolisis dari larutan garam).
Anolyte menjadi salah satu cairan antiseptik penyemprot yang aman bagi kesehatan dan rumah lingkungan jika digunakan pada bilik sanitasi (toilet). Inovasi tersebut diciptakan Dr Muji Harsini, dosen Fakultas Sains dan Teknologi Unair.
Muji menyatakan, cairan antiseptik di bilik disinfektan merupakan upaya untuk mengurangi penyebaran Covid-19. Tujuannya, mematikan mikroorganism



RAMAH LINGKUNGAN Muji Harsini menjelaskan disinfektan anolyte di kampus C Unair.

me, baik bakteri maupun virus. Larutan antiseptik ion garam yang dielektrolisis dapat membunuh bakteri dan virus hiding serta penggosokan bagi pengguna selama inhalasi (menghidup udara ke paru-paru). "Lampu mengaktifkan kesulitan bernapas, tetapi iritasi pada kulit," katanya.

Muji memutarakan, selama ini masyarakat mudah menemukan disinfektan di pasaran. Mulai misyak pirus, feses, H₂O₂, NaOCl, dan etanol. Namun, bahan-bahan tersebut memiliki efek samping bagi tubuh dan kesehatan. "Jadi, kami menggunakan bahan anolyte sebagai bahan cairan

KEUNGULAN DISINFECTAN HASIL ELEKTROLISIS LARUTAN GARAM

1. Dapat membunuh bakteri dan virus hiding serta penggosokan bagi pengguna bilik disinfektan selama inhalasi.
2. Tidak mengakibatkan kulit berpasir dan iritasi kulit.
3. Dapat membunuh sekitar 99 persen bakteri, virus, dan jamur pembawa penyakit berbahaya.
4. Anolyte sering digunakan dalam pengolahan air minum, peternakan ayam, budidaya udang, dan pengolahan makanan.
5. Di rumah sakit, anolyte digunakan untuk mencuci tangan, dekontaminasi penyempitan air dan pipa kerja, hingga mencuci dan merendam kaki.

Disinfektan yang aman dan ramah lingkungan," tuturnya.
Dia menjelaskan, anolyte adalah hasil elektrolisis dari larutan garam (NaCl). Fungsinya sebagai cairan disinfektan yang bisa membersihkan dan memiliki keunggulan dibanding senyawa klorin lainnya. Juga, tidak memiliki efek samping bagi manusia maupun hewan. "Anolyte ini tidak beracun dan dapat terurai dengan sendirinya tanpa harus mencemakan lingkungan," jelasnya.
Menurut Muji, disinfektan anolyte terbukti secara klinis 100 kali lebih efektif dibanding pembersihan dengan pemutih. Juga, dapat membunuh lebih banyak sekitar 99 persen bakteri, virus, jamur, dan pembawa penyakit berbahaya lainnya. "Anolyte juga sering digunakan dalam pengolahan air minum, peternakan ayam, budidaya udang, pengolahan makanan, limbah, sanitasi rumah sakit dan lain-lain."

Dalam penerapannya di rumah sakit, lanjut dia, anolyte digunakan untuk mencuci tangan, dekontaminasi penyempitan air dan pipa kerja, hingga mencuci dan merendam kaki. Anolyte juga bisa digunakan untuk membersihkan permukaan kasar dan dekontaminasi perlengkapan ultrasonik. "Bisa juga untuk mencuci kasar dan karu roda. Masih banyak lagi," katanya.
Muji mengatakan, anolyte sendiri dibuat melalui aktivasi elektrokimia (electro-chemical activation/ECA). Cara tersebut kali pertama dipatenkan di Italia dan dikembangkan lebih dari 40 tahun. Proses aktivasi elektrokimia tersebut menggunakan air, garam, dan listrik. Jadi, dapat menghasilkan kandungan disinfektan yang kuat dan alami.
"Anolyte dengan bahan aktif H₂OCl₂ mempunyai pH antara 2,5-5, atau pH <5. Tentu baik untuk kesehatan. Jadi, ke depan kami terus memproduksi dan sejauh ini kami bisa menghasilkan 80 liter setiap jamnya," paparnya. (ayu/el/5/dso)



Master Program of
C H E M I S T R Y

FACULTY OF SCIENCE AND TECHNOLOGY
U N I V E R S I T A S A I R L A N G G A

Campus C Jl. Dr. Ir. H. Soekarno, Mulyorejo, Surabaya 60115
Phone (031) 5936501 Fax (031) 5936502
Official website: www.mkimia.fst.unair.ac.id



Master Program

BIOMEDICAL ENGINEERING

www.mteknobiomedis.fst.unair.ac.id

VISION

To be a center of excellence in education and research in the field of Biomedical Engineering at national and international levels based on civilized ethics and morals to support the development of the field health and medical industry

MISSIONS

01

To organize education, research and its development that is beneficial to society and knowledge in the field of Biomedical Engineering at the national and international levels

02

To produce qualified graduates in the field of biomedical engineering who are oriented towards mastery of designs, devices, systems and materials in the health and medical industry

03

To develop knowledge, research and community service in the field of biomedical engineering through research to produce innovative and tested works

04

To assist in solving science and technology problems in the field of biomedical engineering through an inter or multidisciplinary approach

OBJECTIVES

01

To produce graduates who are able to solve biomedical technology problems by designing medical instrumentation system engineering and biomedical signal processing systems through a multidisciplinary approach

02

To produce graduates who are able to develop knowledge and technology in the scientific field or professional practice of biomedical engineering through innovative and tested research

03

To produce graduates who are able to design and manage research and development for the benefit of society and science in the field of biomedical engineering and gain national and international recognition.

04

To produce graduates who are able to design biomaterial engineering to produce artificial tissues and organs

05

To produce graduates who are able to formulate safety and security in accordance with medical equipment standards and regulations based on the spirit of excellence with morality

06

To produce graduates who are able to design operations planning and management in the health and medical industry

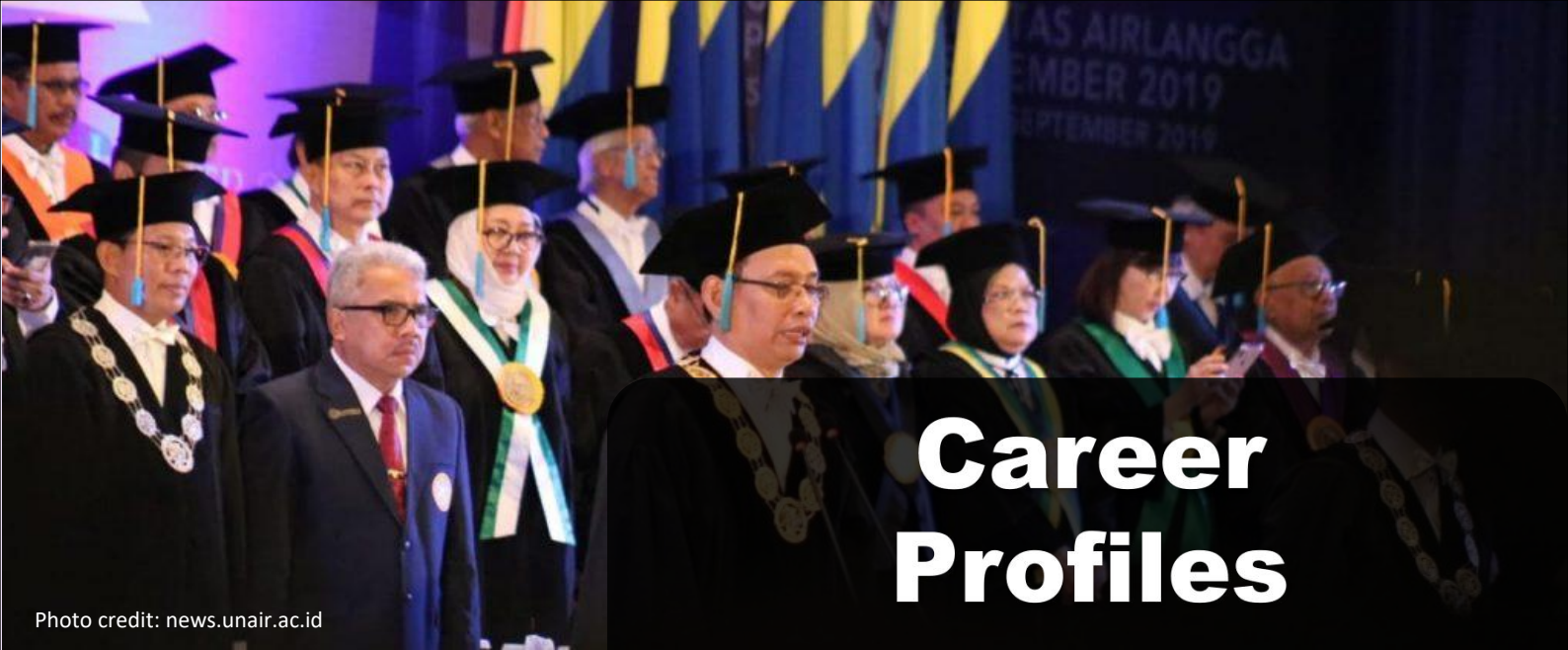


Photo credit: news.unair.ac.id

Career Profiles

01 ACADEMICS

Graduates are able to solve biomedical technology problems by carrying out engineering designs through a multidisciplinary approach. Moreover, graduates are able to improve the quality, quantity and significance of research and community service through strengthening professional and independent mastery of science and technology in the field of Biomedical Engineering



02 PROFESSIONALS

Graduates are able to design medical instrumentation system engineering, biomedical signal processing systems, and biomaterial engineering to produce artificial tissues and organs.



03 RESEARCHERS

Graduates are able to design and manage research and its development that benefit society and knowledge in the field of biomedical engineering and gain national and international recognition. Moreover, graduates are able to develop knowledge and technology in the scientific field or professional practice of biomedical engineering through innovative and tested research.



04 MANAGERS

Graduates are able to formulate safety and security in accordance with medical equipment standards and regulations based on the spirit of excellence with morality. In addition, graduates are also able to design operations planning and management in the health and medical industry.



Programs Offered



Photo credit: unair.ac.id

REGULAR PROGRAM

The regular program can be attended by students from undergraduate programs in Dentistry, Veterinary Medicine, Medicine, Pharmacy, Nursing, Public Health, Mechanical Engineering, Industrial Engineering, Mathematics, Biology, Chemistry, Physics, Radiology, Nursing, Traditional Medicine, Engineering Physics, Biomedical Engineering, and Electrical Engineering.

DOUBLE DEGREE PROGRAM

The Double Degree Program is held in collaboration with the Department of Bioinformatics and Medical Engineering, Asia University, Taiwan with an implementation scheme: the first 1 year at Airlangga University and the following 1 year at Asia University. The degree earned after completing this program is M.T. and M.Sc.



Photo credit: asia.edu.tw

FAST TRACK PROGRAM

The Fast Track program allows students to complete Bachelor and Master Programs within 5 years. Program participants take semesters 1 & 2 of the Masters program together with semesters 7 & 8 of the Bachelors program.



Photo credit: unair.ac.id

CURRICULUM

The curriculum of the Biomedical Engineering Masters Program is designed in a balanced way to provide theoretical and practical abilities that are adapted to the latest developments in science and technology and the development of clinical medical technology applications.

Curriculum redesign is carried out no later than once every 5 years by taking into account input from alumni and stakeholders.

The study program curriculum is designed as an open semester which allows students to graduate within 3 semesters.



Photo credit: news.unair.ac.id

2 Areas of Interest

Biomaterials
Medical Instrumentation

“The minimum number of credits that must be taken by students is 40 credits”

List of Courses

1 SEMESTER 1

COMPULSORY COURSES

Biomedical Technology and Clinical Applications
Applied Mathematics & Biostatistics
Biophysical System
Sustainable Therapy Management
Applied Physiology

ELECTIVE COURSES (min. 4 credits)

2 SEMESTER 2

COMPULSORY COURSES

Research Metodology
Biomedical Instrumentation Engineering
Biomedical Signal Processing
Biomaterials Engineering
Nanomaterial & Nanotechnology

ELECTIVE COURSES (min. 4 credits)

3 SEMESTER 3

COMPULSORY COURSES

Research Proposal

4 SEMESTER 4

COMPULSORY COURSES

Thesis

Elective Courses of Biomaterial

Medical Material Processing
Artificial Organ Technology
Delivery System in Drug Therapy
Capita Selecta of Biomaterials

Elective Courses of Medical Instrumentation

Biomedical Image Engineering
Optimization Technique
Artificial Intelligent
Capita Selecta of Medical Instrumentation

General Elective Courses

Standards & Regulations of Medical Devices & Materials
Industrial Planning
Biomedical Fotonics



Study Program **EXCELLENCE**



Lecturers

All lecturers have doctoral degrees and 40% of them are Professors

Areas of Interest

Has 2 areas of interest that support each other

Internationalization

Through double degree programs, outbound and inbound staff/students, as well as acceptance of foreign students

Collaborations

Collaborations in teaching, research, publication, and product downstreaming with domestic and foreign institutions and industries

LECTURERS

 <p>Prof. Dr. Suhariningsih Biophysics, Medical Physics suhariningsih@fst.unair.ac.id</p>	 <p>Prof. Dr. Retna Apsari, M.Si. Photonics retna-a@fst.unair.ac.id</p>	 <p>Prof. Dr. Moh. Yasin., M.Si. Photonics yasin@fst.unair.ac.id</p>
 <p>Prof. Dr. Suryani Dyah Astuti, M.Si. Biophysics, Medical Physics suryanidyah@fst.unair.ac.id</p>	 <p>Dr. Aminatun, M.Si. Biomaterials aminatun@fst.unair.ac.id</p>	 <p>Dr. Khusnul Ain, M.Si. Medical Instrumentation k_ain@fst.unair.ac.id</p>
 <p>Dr. Riries Rulaningtyas, M.T. Medical Instrumentation riries-r@fst.unair.ac.id</p>	 <p>Dr. Soegianto Soelistiono, M.Si. Medical Instrumentation soegianto@fst.unair.ac.id</p>	 <p>Dr. Nuril Ukhrowiyah, M.Si. Medical Instrumentation nurilukhrowiyah@fst.unair.ac.id</p>
 <p>Dr. Imam Sapuan M.Si. Medical Instrumentation i_sapuan@fst.unair.ac.id</p>	 <p>Herri Trilaksana, M.Si., Ph.D. Photonics herri-t@fst.unair.ac.id</p>	 <p>Dr. Prihartini Widiyanti, drg., M.Kes. Biomaterials pwidiyanti@fst.unair.ac.id</p>
 <p>Ersyzario Edo Yunata, M.Si., Ph.D. Biomaterials ersyzario.edo@fst.unair.ac.id</p>	 <p>Andi Hamim Zaidan, M.Si., Ph.D. Nanomaterials zaidan@fst.unair.ac.id</p>	 <p>M. Zakki Fahmi, M.Si., Ph.D. Nanomaterials m.zakki.fahmi@fst.unair.ac.id</p>
 <p>Dr. Rimuljo Hendradi, M.Si. Biomedical Signal Processing rimuljo-h@fst.unair.ac.id</p>	 <p>Dr. Hari Basuki Notobroto, dr., M.Kes. Public Health haribasuki.n@fkm.unair.ac.id</p>	 <p>Prof. Dr. Bambang Purwanto, dr., M.Kes. Medicine bambang-purwanto@fk.unair.ac.id</p>
 <p>Dr. Wisudanto, SE.,MM.CFP. Economic, Management wisudanto@feb.unair.ac.id</p>	 <p>Prof. Dr. med. Puruhito, dr., Sp.B-BTKV(K) Cardiothoracic Surgery</p>	 <p>Prof. Dr. Dwikora Novembri Utomo, dr., SpOT(K) Orthopedics & Traumatology dwikora-novembri-u@fk.unair.ac.id</p>
 <p>Prof. Junaidi Khotib, Apt., M.Kes., Ph.D. Pharmacy junaidi-k@ff.unair.ac.id</p>	 <p>Prof. Dr. Budi Suprapti, M.Si. Pharmacy budi-s@ff.unair.ac.id</p>	 <p>Dr. Yulistiani, Apt., M.Si. Pharmacy yulistiani@ff.unair.ac.id</p>

RESEARCH GROUPS



Biophysics and Medical Physics Research Group

Photodynamic Therapy (PDT)

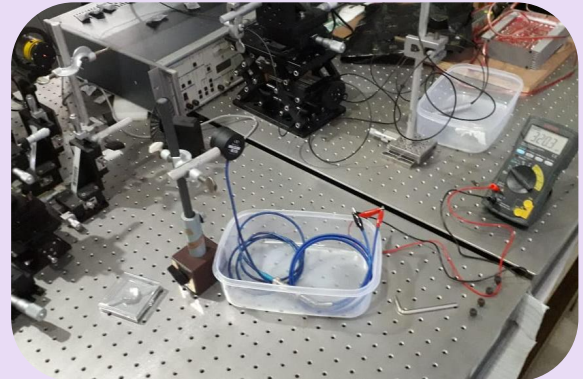
- Physical aspect of PDT,
- Photosensitizer in PDT; organic, metal and drug
- Antimicrobial PDT
- PDT for cancer
- In vitro, in vivo research
- Clinical trial
- aPDT equipment
- Intellectual Properties: 12 patens, 2 merks, 2 books
- Collaboration: Dentistry, Vocational Veterinary, PDGI, Public Health

Plasma discharge technology (Ozonized)

- Ozone formation process
- Physical and chemistry aspect
- Decontaminant of herbal medicinal ingredients
- Ozone for antimicrobial therapy
- Ozone equipment
- Collaboration: Pharmacy, Biology, UNDIP

Gas Array Sensors (Electronic Nose)

- Gas array sensors
- Physical and chemistry aspect
- computation aspect E-nose,
- Quality of food
- early detection of oral and dental diseases
- E-nose equipment
- Collaboration: Dentistry, UGM, Instrumentation, computational



Biophotonic Research Center (BRC)

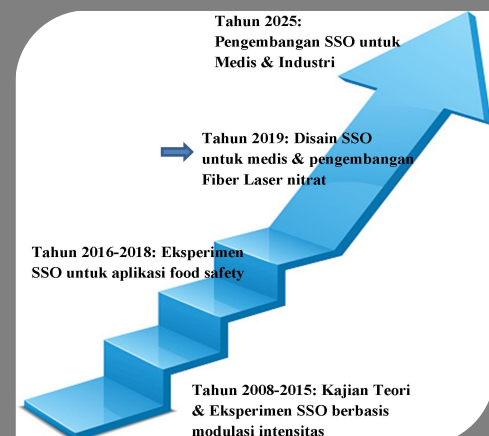
Target Product

- Microfiber Machine
- ASE (Amplified Spontaneous Emission)
- COMPACT OPTICAL EQUIPMENT (FUTURE PLAN)

Collaboration

- PRC, University of Malaya
- Photonic Eng. Lab., University of Malaya
- Laser Centre, UTM
- AIPT, Aston University, UK
- ORC, Univ. of Southampton
- CGCRC, Kolkata, India
- Niciss Lab. & Photoelectron Lab., Flinders University
- P2F LIPI

“Until 2020, more than 170 papers have been published (ISI / Scopus Index)”



RESEARCH GROUPS



Biomaterial Research Group

Hard Tissue Biomaterial

- Metal implant coating
- Hydroxyapatite composite as bone scaffold
- Hydroxyapatite-polymer composite nano-fiber as bone scaffold
- 3D printing scaffold for the mandible
- Materials injectable for bone healing

Soft Tissue Biomaterial

- PCL-PLA-HA composite nano-fiber as ligament scaffold
- Polymer as wound dressing and wound healing

Collaboration

- UGM
- ITB
- IPB
- BATAN
- RSUD Dr. Soetomo



Biomedical Signal & System Research Group

Collaborators

- Dr. Rifai Chai (Faculty of Science, Engineering & Technology, School of Software and Electrical Engineering, Department of Telecommunications, Electrical, Robotics and Biomedical Engineering, Swinburne University of Technology, Victoria, Australia).
- Dr. I Putu Alit Pawana, Sp. KFR. (Instalation of Medical Rehabilitation, Department of Physical Medicine and Rehabilitation, RSUD Dr Soetomo, Surabaya, Indonesia).
- Dr. Eng M. Abu Jamiin, S.T, M.T (Automation Engineering, Shipbuilding Institute of Polytechnic Surabaya).
- Assoc. Prof. Dr. Ardiyansyah Syahrom, M.Eng (Medical Devices and Technology Centre (MEDITEC), Faculty of Biomedical Engineering, Universiti Teknologi Malaysia (UTM), Johor Bahru, Malaysia).
- Dr. dr. Jan Halbertsma (Department of Rehabilitation Medicine, University Medical Center Groningen, Groningen, The Netherlands)



Application Requirements



Have an undergraduate GPA > 2,75 and TOEFL >450



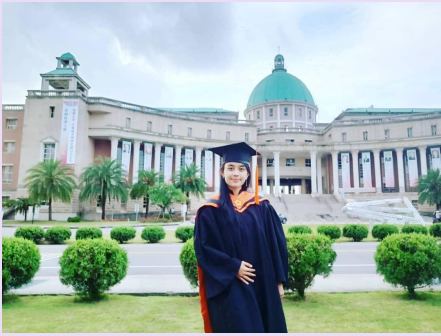
Have Bachelor's Degree in Dentistry, Veterinary Medicine, Medicine, Pharmacy, Nursing, Public Health, Mechanical Engineering, Industrial Engineering, Mathematics, Biology, Chemistry, Physics, Radiology, Nursing, Traditional Medicine, Engineering Physics, Biomedical Engineering, and Electrical Engineering.



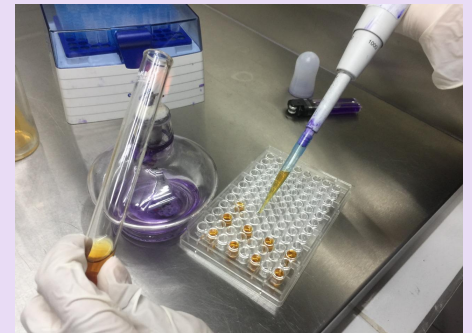
Have a pre-proposal plan including: Title, Introduction (background, problem formulation, research objectives and benefits), Literature review, Hypothesis, Research materials and methods, Bibliography.

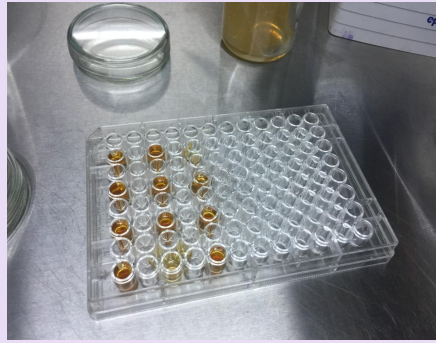


Students who are not graduates from Physics/Physical Engineering, Biomedical Engineering, Electrical Engineering undergraduate programs are required to attend matriculation courses



GALLERY





GALLERY



Master Program of
BIOMEDICAL ENGINEERING

FACULTY OF SCIENCE AND TECHNOLOGY
U N I V E R S I T A S A I R L A N G G A

Campus C Jl. Dr. Ir. H. Soekarno, Mulyorejo, Surabaya 60115
Phone (031) 5936501 Fax (031) 5936502
Official website: www.mteknobiomedis.fst.unair.ac.id



Master Program

MATHEMATICS

www.m-math.fst.unair.ac.id

VISION

To be a center for the development of Mathematics and its application in the field of life sciences based on religious morality

MISSIONS

- 01** To organize effective and efficient education based on the applicable curriculum to produce innovative and professional graduates
- 02** To conduct innovative, productive and quality research, both independently and collaboratively at national and international levels to support the development of mathematics, statistics and computing, especially in the field of life sciences
- 03** To do community service as an actualization of quality and dignified application of mathematics, statistics and computing
- 04** To produce graduates who have noble character, are competent in their fields, qualified and able to adapt to changes and developments in science and technology

OBJECTIVES

- 01** To produce graduates who are able to master the concepts and mindset of Mathematics and are able to apply them in the learning process
- 02** To produce graduates who are able to develop mathematical concepts through research in the field of mathematics
- 03** To produce graduates who are able to identify problems that arise in the industrial, health, economic and social fields and solve them using mathematical modeling
- 04** To produce graduates who have high self-confidence and are able to work together professionally and are able to compete at national and international levels



CAREER PROFILES

Photo credit: news.unair.ac.id

ACADEMICS

Graduates are able to communicate in a straightforward, easy, and precise manner in mastering mathematical concepts and their application

01



RESEARCHERS

Graduates are able to solve complex mathematical problems through an inter/multidisciplinary approach, both at the national and international levels

02

PRACTITIONERS AND CONSULTANTS

Graduates are able to contribute to solving problems faced by society and institutions

03



CURRICULUM

The curriculum structure of the Mathematics Masters Study Program is based on the KKNl and has different characteristics from the same study programs in other institutions.

The curriculum is designed for a period of 4 (four) semesters and can be completed in less than 4 (four) semesters and a maximum of 8 (eight) semesters including the preparation of a thesis.

The program offers 5 areas of interest and 2 types of course.



2 types

Master by Coursework
Master by Research



5 areas of interest

Analysis and Geometry
Algebra and Combinatorics
Modeling and Simulation
Operations Research and Computing
Statistics

Master by Coursework

1 SEMESTER 1

COMPULSORY COURSES

Research Methodology
Matrix Analysis
Probability Theory

ELECTIVE COURSES

(4-7 credits)

3 SEMESTER 3

COMPULSORY COURSES

Thesis Proposal[♦]

ELECTIVE COURSES (10-13 credits)

2 SEMESTER 2

COMPULSORY COURSES

Real Analysis
Computational Mathematics

ELECTIVE COURSES (6-9 credits)

4 SEMESTER 4

COMPULSORY COURSES

Thesis[♦]

ELECTIVE COURSES

(6-9 credits)

ELECTIVE COURSES SEMESTER 1 & 3

Functional Analysis*
Graph Theory and Combinatorics**
Optimum Control Theory#
Biomathematical Modeling#
Fractional Modeling#
Heuristic Method##
Biomedical Informatics##
Social Economic Statistical Modeling §
Data Smoothing Techniques §
Multivariate Analysis §

ELECTIVE COURSES SEMESTER 2 & 4

Capita Selecta Analysis and Geometry*
Capita Selecta Algebra and Combinatorics**
Abstract Algebra**
Dynamic System#
Capita Selecta Modeling and Simulation#
Big Data Analysis##
Optimization Theory##
Capita Selecta Operations Research and Computing ##
Capita Selecta Statistics §
Modeling of Life Statistics §
Geospatial Data Analysis §

[♦] Open Semester Courses

* Elective Courses of Analysis and Geometry

** Elective Courses of Algebra and Combinatorics

Elective Courses of Modeling and Simulation

Elective Courses of Operations Research and Computing

§ Elective Courses of Statistics

1 SEMESTER 1

COMPULSORY COURSES

Research Methodology
Independent Study
Article Reviews

ELECTIVE COURSES

(2-6 credits)

3 SEMESTER 3

COMPULSORY COURSES

Thesis Proposal[♦]

Scientific Publications 2[♦]

ELECTIVE COURSES (4-8 credits)

2 SEMESTER 2

COMPULSORY COURSES

Scientific Seminars
Research Results Exam
Scientific Publications 1[♦]

ELECTIVE COURSES (2 credits)

4 SEMESTER 4

COMPULSORY COURSES

Thesis[♦]

ELECTIVE COURSES

(6-10 credits)

Master by Research



Photo credit: unair.ac.id

Graduation Requirements

- 01** Have taken $\geq 38-42$ credits (according to areas of interest) and have passed all required courses.
- 02** GPA ≥ 3.00
- 03** Have published the results of his thesis research in journals or proceedings with *accepted* status
- 04** Have an ELPT (English Language Proficiency Test) score of ≥ 475 carried out by the Language Center of Universitas Airlangga

Study Program EXCELLENCE

GRADUATE DEGREE

Has a graduate degree: Master of Science (M.Si)

STUDENTS' STUDY PERIOD

Study period: 4 semesters; maximum 8 semesters. For those who excel can take 3 semesters.

LECTURERS QUALIFICATIONS

Lecturer qualifications: Doctor (80%) and Professor (20%)

OPEN SEMESTER

Open registration in odd and even semesters

RESEARCH ROADMAP

Has a research roadmap that is integrated with the Mathematics Department which consists of 8 Research Groups: Analysis, Algebra, Programming and Computing, System Modeling, Life Science Statistical Modeling, Social and Economic Statistical Modeling, Business Intelligence, and Information Systems Engineering Research Groups

LECTURERS



Prof. Dr. Fatmawati, M.Si.
Mathematical Modeling, Optimum Control, Applied Algebra



Dr. Miswanto, M.Si.
Mathematical Modeling, Optimum Control



Dr. Eridani, M.Si.
Mathematical Analysis



Herry Suprajitno, M.Si., Ph.D.
Optimization, Operation Research, Arithmetic Material



Cicik Alfiniyah, M.Si., Ph.D.
Biological Mathematics



Dr. Windarto, M.Si.
Fluid Dynamics Modeling, Numerical Computing



Dr. Yayuk Wahyuni, M.Si.
Graph Theory



Dr. Inna Kuswandari, M.Si.
Graph Algebra



Dr. Liliek Susilowati, M.Si.
Algebra/Graph Theory



Dr. Nenik Estuningsih, M.Si.
Applied Algebra



Dr. Nur Chamidah, M.Si.
Statistical Modeling in Health Sciences,
Nonparametric and Semiparametric Regression,
Data Mining/Text Mining Analysis



Dr. Ardi Kurniawan, M.Si.
Life Time Data Analysis, Structural Equation
Modelling, Marketing Data Analysis



Dr. Toha Saifudin, M.Si.
Spatial data Analysis, Computational Statistics



Dr. M. Fariz Fadillah Mardianto, M.Si.
Statistics Modeling for Economics and Social
Sciences, Nonparametric Time Series,
Longitudinal Data Analysis



Ira Puspitasari, M.T., Ph.D.
Information Systems Engineering, Data Analytics,
Consumer Health Informatics



Dr. Rimuljo Hendradi, M.Si.
Biomedical Signal Processing, Business
Intelligence, Decision Support Systems



Dr. Eva Hariyanti, M.T.
Risk Management, IT Governance

Research Group

MATHEMATICAL MODELING

Estimation of the spread of infectious diseases using a mathematical model approach

STATISTICAL MODELING IN LIFE SCIENCE

Children Growth Chart for Assesing Nutritional Status, Infectious and non-Infectious diseases modelling with a statistical model approach, Detection of disease based on image with a statistical model approach

INFORMATION SYSTEM ENGINEERING

Building an information technology governance framework for health. Development of a computer-assisted diagnosis system for lung disease using the hybrid deep learning method

ANALYSIS & ALGEBRA

Operator theory and Matrices dimension

COMPUTATIONAL SCIENCES

Artificial Intelligence (disease diagnosis and application development), Optimization (scheduling and assigning of health workers)

STATISTICAL MODELING IN SOCIAL & ECONOMICS SCIENCE

Queue Modelling

BUSINESS INTELLIGENT

Development of electronic diagnostic systems in health based on cellular technology





Application Requirements



Have an undergraduate GPA > 2,75



Have Bachelor's Degree in Mathematics, Mathematics Education, Statistics, Data Science, Actuarial Science, Computers, Computer Science Education and other allied fields



Have a pre-proposal plan including: Title, Introduction (background, problem formulation, research objectives and benefits), Literature review, Hypothesis, Research materials and methods, Bibliography.



Admission: open semester (odd and even semester)



Doctoral Program

Mathematics and Natural Sciences

www.doktor.fst.unair.ac.id

VISION

To be a doctoral study program that is independent, innovative, leading at the national and international levels, and being a pioneer in the development of mathematics and natural sciences based on religious morality

MISSIONS

- 01** To organize academic education programs in mathematics and natural sciences and educating students to become a scientist
- 02** To develop research in the field of mathematics and natural sciences professionally through scientific findings
- 03** To carry out community service as a form of social responsibility by involving students
- 04** To do collaborations with various institutions at the national and international levels
- 05** To improve the input quality of prospective students based on the competence and origin of domestic and foreign students

OBJECTIVES

- 01** To produce graduates who have insight, scientific abilities, and technical skills needed to solve complex problems through an interdisciplinary approach
- 02** To produce researchers in the field of Mathematics and Natural Sciences through theoretical approaches, concepts and paradigms that are appropriate to their areas of expertise and are able to communicate the results of these studies in the form of scientific papers
- 03** To produce graduates who are able to use knowledge and skills in their fields of expertise to help solve problems in society
- 04** To do collaborations at national and international levels with various institutions in the fields of education, research, and community service
- 05** Realizing a study program that has input of qualified prospective students from various regions, both from within and outside the country



Photo credit: news.unair.ac.id

CAREER PROFILES

01

RESEARCHERS

able to predict natural phenomena naturally

02

COMMUNICATORS

able to publish the results of their works in international journals and communicate them with peer groups, scientific communities, and related communities

03

PRACTITIONERS

able to develop knowledge in the field of mathematics and natural sciences in research and applications oriented to life and health sciences, industry, and the environment

04

LEADERS

able to help solve problems in society

03

MANAGERS

able to conduct research independently or in groups

4 Areas of Interest



BIOLOGY

Offers 4 study concentrations: Environmental Biology, Botany, Microbiology, and Zoology

PHYSICS

Offers 2 study concentrations: Biophysics and Laser Biooptics.



CHEMISTRY

Offers 3 study concentrations: Biochemistry, Analytical Chemistry and Organic Chemistry.



MATHEMATICS

Offers 2 study concentrations: Analysis and Algebra, and Applied Mathematics



CURRICULUM

The curriculum of Doctoral Program of Mathematics and Natural Sciences is a RESEARCH-BASED curriculum and designed for a 3 (three) years learning period with a minimum 42 credits.

Students are still allowed to take lectures that support their dissertation research, but this is non-credit. Students can also take courses in other study programs or courses held by the Promoter/Co-Promoter.

The curriculum components are divided into Non-Dissertation Components (18 credits) and Dissertation Components (24 credits).



Non-Dissertation Components

- Qualification Exam
- Periodic Seminars (Seminar 1,2,3)
- International Publications
- International Conference

Dissertation Components

- Dissertation Proposals
- Dissertation (Manuscript Eligibility Examination, Closed Dissertation Examination, and Open Dissertation Examination)

Curriculum Structure

1 SEMESTER 1

Qualification Exam
Sit-in lectures as needed (non-credits)
Dissertation Proposals

2 SEMESTER 2

Sit-in lectures as needed (non-credits)
Seminar 1*
International Conference

3 SEMESTER 3

Seminar 2*
Publications 1 (*published*)

4 SEMESTER 4

Seminar 3*
Publications 2 (*accepted*)

5 SEMESTER 5

Eligibility Examination

6 SEMESTER 6

Dissertation Examination 1 (Closed)
Dissertation Examination 2 (Open)**

* Seminars 1, 2, 3 are courses in a series of study activities which as a whole have 2 credits. The score of this course will be given after all seminars 1, 2 and 3 have been taken by students.

** Students who have 3 (three) publications in reputable international journals during their doctoral studies can be exempted from the Open Dissertation Examination



DOCTORATE

can be given if

- ❑ study period is not more than 14 semesters,
- ❑ minimum GPA 3,00,
- ❑ have publications in international journals indexed by ISI Knowledge-Thomson Reuter, SCOPUS or Microsoft Academic Search as the first author with 1 (one) published status and 1 (one) accepted status
- ❑ have 1 (one) publication in international conference proceedings indexed by ISI Knowledge-Thomson Reuter, SCOPUS or Microsoft Academic Search, and
- ❑ submit proofs of publications after the Open Examination
- ❑ have a TOEFL/ELPT certificate with a minimum score of 500

STUDY PROGRAM EXCELLENCE

- ❑ Accredited A by BAN PT
- ❑ In the first year of study, students can start their research with their potential promoters, so that the study time can be shortened
- ❑ A list of potential promoters and co-promoters from all areas of interest and their research publications can be accessed at <https://dokter.fst.unair.ac.id/staf-pengajar>
- ❑ Laboratory facilities for on-campus research can be seen at <https://dokter.fst.unair.ac.id/sarana-umum/>
- ❑ Student publications for the last 2 years can be seen at <https://dokter.fst.unair.ac.id/publikasi/>





Application Requirements



Have GPA master program $\geq 3,00$



have a linear research proposal plan with the master's thesis topic



Submit a list of scientific publications produced in the last 5 years



Have a letter of recommendation from a potential promoter

The selection process is divided into written test and non-written test. The materials for the written test are TPA (Academic Potential Test), English test and interview. In the non-written test selection, apart from interviews, there are special requirements that must be met.

Postgraduate Student Association (HIMAPASCA)



HIMAPASCA is an association of postgraduate students at the Faculty of Science and Technology consisting of students from the Masters program in Biology, Chemistry, Biomedical Engineering, and Mathematics as well as students from the Mathematics and Natural Sciences Doctoral Program.

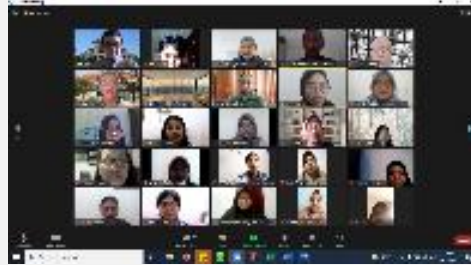
VISION

“To become a quality and excellent student association at the national and international levels based on religious morality”

MISSIONS

- 01** To establish and maintain open communication between administrators and members of the postgraduate student association
- 02** To provide a forum for activities, discussions, and creativity to develop the potential and insights of postgraduate students
- 03** To disseminate information relating to graduate student associations

Gallery HIMA- PASCA






Registration of Prospective Students

Registration and selection of prospective new students is carried out centrally at the university level under coordination of Pusat Penerimaan Mahasiswa Baru (PPMB).

Information on new student admissions can be seen at [www. ppmb.unair.ac.id/](http://www.ppmb.unair.ac.id/)

Upload the registration file at www.pendaftaran.unair.ac.id/



Photo credit: jatim.inews.id

Address:

Jln. Dr. Ir. H. Soekarno No. 123, Mulyorejo, Surabaya, Jawa Timur 60115

Phone : 031 - 5956009, 5956010, 5956013

WA Only : 0821-3861-1156, 0813-5885-0855

Fax : 031 - 5956027

Email : info@ppmb.unair.ac.id

SCHOLARSHIPS



LPDP (Lembaga Pengelola Dana Pendidikan) - Kemenkeu

www.lpdp.kemenkeu.go.id



BU (Beasiswa Unggulan) - Kemdikbud

www.buonline.beasiswaunggulan.kemdikbud.go.id



DEXA Award Science Scholarship

www.dexascholarship.com



Beasiswa Bakrie

www.untuknegeri.org/yayasan-bakrie-center-foundation/



PMDSU (Pendidikan Magister menuju Doktor untuk Sarjana Unggul)

www.pmdsu.com



ADS (Airlangga Development Scholarship) - foreigner

www.global.unair.ac.id/ads/



KNB Scholarship (Kemitraan Negara Berkembang) - foreigner

www.knb.kemdikbud.go.id

PERSON IN CHARGE

01



MASTER PROGRAM OF BIOLOGY

Prof. Dr. Alfiah Hayati, M.Kes.

Email : alfiah-h@fst.unair.ac.id

Phone : 081330950399

MASTER PROGRAM OF CHEMISTRY

Yanuardi Raharjo, M.Sc., Ph.D.

Email : yanuardiraharjo@fst.unair.ac.id

Phone : 08563320757



02

03



MASTER PROGRAM OF BIOMEDICAL ENGINEERING

Prof. Dr. Suryani Dyah Astuti, M.Si.

Email : suryanidyah@fst.unair.ac.id

Phone : 082143211353

MASTER PROGRAM OF MATHEMATICS

Dr. Nur Chamidah, M.Si.

Email : nur-c@fst.unair.ac.id

Phone : 081331140657



04

05



DOCTORAL PROGRAM OF MATHEMATICS & NATURAL SCIENCES

Dr. Dwi Winarni, M.Si.

Email : dwi-w@fst.unair.ac.id

Phone : 08175093047

POSTGRADUATE PROGRAMS

FACULTY OF SCIENCE AND TECHNOLOGY

U N I V E R S I T A S A I R L A N G G A

Campus C Jl. Dr. Ir. H. Soekarno, Mulyorejo, Surabaya 60115
Phone (031) 5936501 Fax (031) 5936502



fst.unair.ac.id



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[fstua](https://twitter.com/fstua)



admin@fst.unair.ac.id



[fsaintek](https://www.facebook.com/fsaintek)



Fakultas Sains dan Teknologi
Universitas Airlangga