

Graduate Degree

Participants who have fulfilled the requirements for completing their studies will graduate and receive the title of **Master of Science (M.Sc)**

Quality Assurance System

Master program quality assurance is carried out by following the system at both in the university level (UGM Quality Assurance Office) and the faculty level (Quality Management Unit).

Admission

Recruitment system in Master Program of Agro-industrial Technology follows the University and Faculty policies. Candidates for postgraduate programs are preferred to have a bachelor's degree in the field that appropriate or related to the course in Agro-industrial Technology. For prospective students whose background are from another field, then required to take part in the matriculation program.

International Program

STUDENT EXCHANGE

The Department of Agroindustrial Technology, Universitas Gadjah Mada provides opportunities for students to take part in student exchange programs, an activity to explore and study abroad for 25 days. Students who take part in this program will get a certificate that can be used as a substitute for special topic courses.

6 Universities of 3 ASEAN Countries: Kasetsart University Thailand, Nam Long University Vietnam, De La Salle Araneta University Philippines, Naresuan University Thailand, Vietnam National University for Agriculture, Khon Kaen University Thailand

SUIJI

SUIJI (Six University Initiative Japan Indonesia) is a program organized by the collaboration of six Japanese and Indonesian universities that are members of the SUIJI consortium (Ehime University, Kochi University, Kagawa University, Bogor Agricultural Institute, Universitas Gadjah Mada and Hasanuddin University).

The program offers several schemes such as SLP (Service Learning Program) which provide opportunities for students to live in rural areas in Japan's Shikoku and Indonesia. Students will be ordered to find the actual problems that occur in rural areas, and then jointly review and look for alternatives to overcome these problems. Other schemes offered are conducting research and thesis for 1-year at Japan Universities (Ehime, Kochi or Kagawa). In this scheme students will get thesis counselors from the Japan and Indonesia, in addition students will also attend lectures and language classes prepared to support the completion of their thesis.

Tuition Fee

The tuition fee for Academic Year 2018/2019 : Rp. 11.000.000/semester

Application Requirement

1. Recent color photograph (blue background) in formal attire and pose.
2. S1 (undergraduate) academic certificate, original or copied document that has been legalized
3. S1 (undergraduate) academic transcript, original or copied document that has been legalized
4. Certification of program accreditation from the latest educational level
5. Academic Potention Test (TPA) BAPPENAS or Graduate Academic Potention Test (PAPs) UGM or Basic Academic Ability Test by Indonesian Psychology Association (TKDA HIMPSI) proofed by the certification which is still valid max 2 years after the certificate was out
6. Certificate of English proficiency, which is still valid max 2 years after the certificate was out
7. Recommendation Letter from 2 lecturers from previous educational level

Detail information can be accessed through : <http://um.ugm.ac.id>



Schedule

Type	Period	Announcement
Odd semester	up to June	July
Even semester	up to December	January



UNIVERSITAS GADJAH MADA
FACULTY OF AGRICULTURAL TECHNOLOGY
DEPARTMENT OF AGROINDUSTRIAL TECHNOLOGY

MASTER PROGRAM OF AGROINDUSTRIAL TECHNOLOGY

OPERATIONAL PERMIT OF DIKTI No. 3787/D/T/2004
BADAN AKREDITASI PERGURUAN TINGGI (BAN-PT) GRADE A



Agroindustrial Eco-Techno-Preneurship

Vision

To be the center of excellence in education and development of engineering technology, managerial and system in sustainable agro-industry field

Mission

Operating education and development to generate human resources that have the capability of technology and management in sustainable agroindustry field

Developing and applying engineering technology, management and sustainable agroindustry system through research and community service activities

Developing wider network in order to build partnerships in engineering technology, management and agroindustrial system with government agencies, industry or universities both within and outside the country

Information

Master Program of Agroindustrial Technology

Head of Study Program Dr. Ir. Makhmudun Ainuri, M.Si

Phone +628156607076, +62274551219

Fax +62274551219

E-mail kadep-s2-tip.tp@ugm.ac.id, dun@ugm.ac.id

Website <http://tip.ugm.ac.id/pasca-tip>



Background

The balanced economic structure focuses on the invention of advanced manufacturing industry and supported by the agricultural sector. The development of industries based on agriculture and marine is the main priority. On that basis, the development of agro industry is a solution to utilizing natural resources. A reliable, entrepreneurial, technology-based and environmental oriented are needed as an agro-industrial technologist, so that the sustainable livelihoods can run effectively.

The Master Program of Agro-industrial Technology, Faculty of Agricultural Technology, Universitas Gadjah Mada offers educational services that are expected to increase the capacity of graduates. An agro-industrial technologist is expected to manage the agro-industrial sector to be more productive, consumer-oriented and highly competitive both locally and globally. A perspective that views agriculture as an integrated system, linking the chain (supply and value) of farmers, suppliers, industries, distributors, and retailers that play an important role respectively. The mastery of system approach, managerial technology, engineering technology and manufacturing system in agro-industry development are the special features offered from this master program.

The study program embraces the educational philosophy “Patrap Triloka: Ing Ngarso Sung tulodho, Ing Madya Mangun Karso, Tut wuri Handayani”

1. Ing ngarso sung tulodho: Lecturers as educators are expected to be models or exemplary figures, providing a good example
2. Ing madya mangun karso: in the middle or between students the lecturers must create the initiative and ideas
3. Tut wuri handayani: from behind, a lecturers, should be able to provide encouragement and guidance).

Facility

MAIT has 6 Laboratories to support spesific fields :

- Quality Analysis and Standardization
- Industrial System Management
- Production System
- Analysis and Industrial System Simulation
- Industrial Engineering and By-Product Handling
- Bioindustry

Other facilities such as wifi access, GMC Health Service (Gadjah Mada Medical Center), and online library with access to many national and international journals are also provided

Curriculum

The Master in Agro-industrial Technology offers 2 (two) study interest namely Agro-Industrial System Engineering Technology (AET) and Agro-Industrial Management (AM) which includes the fields of expertise : 1.Agro-industrial Business Management, 2.Quality and Standardization System, 3. Logistics and Supply Chain Management, 4.Manufacture Engineering, 5.MANufacturing Agro-industrial System

The Master Degree can be obtained in 24 months effective with total study load of 41-50 credits, supplemented by industrial visits, discussions, seminars and others.

Compulsory Courses

1. Financial Management
2. Modeling and System Simulation
3. Agroindustrial Process Technology
4. Quality Engineering
5. Strategic Operation Management
6. Innovation and Entrepreneurship
7. Research Workshop
8. Thesis

Agro-industrial Business Management

1. Strategic Management
2. Risk Management
3. Industrial Policy Analysis
4. Decision Analysis
5. Agro-industrial Projects Management
6. Human Resources Management and Organization
7. Agro-industrial Bussiness Management
8. Marketing

Quality and Standardization Systems

1. Quality Management System
2. Production and Sustainable Consumption
3. Product Geographic Indication
4. Controlled Environment Technology
5. Packaging Engineering and Management

Logistic and Supply Chain Management

1. Logistic and Supply Chain Management
2. Retail Management
3. Transportation and Distribution Management
4. Inventory and Warehousing Management System
5. Management System for Perishable Materials and Product
6. Macro Logistic System

Manufacturing Engineering

1. Materials and Product Manufacture Technology
2. Design and Product Development
3. Manufacturing Industry Engineering
4. Concepts and Management Technology
5. Bioconversion Technology
6. Industrial Biomass and Energy Technology
7. Environmental Engineering and Agroindustrial Waste
8. Work System Engineering

Manufacturing Agro-industrial System

1. System Planning and Analysis
2. Productivity Analysis
3. Smart Control for Manufacture System
4. Manufacture Automation
5. Artificial Intelligence System
6. Integrated Information System
7. Manufacture Optimatization Engineering
8. Manufacture System Simulation

	Agro-Industrial System Engineering Technology (AET)	Agro-Industrial Management (AM)	Combination AET-AM
ME Manufacturing Engineering (ME)	●		●
M Agro-industrial Business Management (M)		●	
LSCM Logistics and Supply Chain Management (LSCM)		●	●
QSS Quality and Standardization System (QSS)	●		●
MS Manufacturing Agro-industrial System (MS)	●		●

Program Spesification

Learning Outcome

The Master in Agro-industrial Technology aims to be the first choice for students and professionals in seeking sources of agro-industrial knowledge, nationally and internationally producing professionals in the field of sustainable agro-industrial technology, to produce professionals in the field of agro-industrial technology, and to provide graduates with the ability and competence in developing networks and becoming leaders in the fields of (1) systems engineering, (2) management, and (3) sustainable agro-industrial systems. To produce professionals in sustainable agro-industrial technology, the program establishes Learning Outcome (LO) as follows.

Generic LO's

1. The ability to function effectively as a member or leader in the technical team
2. The ability to identify, analyze and solve engineering technology problems that are broadly defined
3. Ability to apply written, oral and graphic communication in both technical and non-technical environments; and the ability to identify and use appropriate technical literature
4. The ability to analyze the need for sustainable professional development independently (longlife learning)
5. The ability to develop a commitment to handle professional and ethical responsibilities including respect for diversity
6. The ability to analyze the impact of engineering technology solutions in social and global contexts; and
7. Commitment to quality, timeliness, and continuous improvement

Specific LO's

1. The ability to choose and apply the latest knowledge, techniques, skills and tools in the field of agricultural industrial technology engineering in technological engineering activities
2. The ability to build and analyze knowledge of mathematics, science, engineering, management, and technology for agro-industrial engineering technology problems that require the application of principles and procedures or methodologies applied
3. Ability to carry out standard tests and measurements; to do, analyze, and interpret experiments; and to implement and evaluate experimental results to conclude the improvement of systems, processes and products in the field of agro-industry
4. Ability to design and manage systems and processes for agro-industrial engineering technology problems that are broadly defined in accordance with the objectives of the education program

Lecturer

Adi Djoko Guritno, Dr. Ir. MSIE
 Agung Putra Pamungkas, Dr. STP., M.Agr
 Anggoro Cahyo S, Dr. STP, MP
 Atris Suyantohadi, Dr. STP, MT
 Didik Purwadi, Dr. Ir. M.Ec
 Dyah Ismoyowati, Dr. Ir. M.Sc
 Endy Suwondo, Dr. Ir. DEA
 Henry Yuliando, Dr. STP, MM, M.Agr
 Novita Erma K, Dr. STP, MP

Jumeri, Dr. STP, M.Sc
 Kuncoro Harto Widodo, Dr. STP, M.Sc
 Makhmudun Ainuri, Dr. Ir. M.Si
 Mirwan Ushada, Dr. STP, M.App.LfSc
 Moch Maksum, Prof. Dr. Ir. M.Sc
 M. Affan Fajar Fallah, Dr. STP, M.Sc
 Nafis Khuriyati, Dr. STP, M.Sc
 Wagiman, Dr. STP, M.Si
 Wahyu Supartono, Dr.rer.nat.Ir.