

# Supporting Facilities



## FACULTY OF AGRICULTURAL TECHNOLOGY UNIVERSITAS GADJAH MADA



Jalan Flora No. 1 Bulaksumur Yogyakarta 55281 - Indonesia  
Telp. / Fax : 0274-551220 / 0274-589797  
Email : fateta@ugm.ac.id  
Website : <http://tp.ugm.ac.id>  
Twitter : @ftp\_ugm

### Building and Laboratories

Currently, the faculty has four main buildings with the total area of 17.950 m<sup>2</sup>, which are destined for laboratory, library, administration process, seminar and discussion room, student organization, and auditorium. All of the areas are covered with the internet connection, either wire and wireless connection.

The faculty has 16 laboratories organized by three departments as follows :

1. Department of Food and Agricultural Product Technology, supported by 5 laboratories : Lab. of Biotechnology, Lab. of Chemistry and Food Biochemistry, Lab. of Food and Nutrition, Lab. of Waste Management, and Lab. of Food Engineering.
2. Department of Agricultural Engineering, supported by 5 laboratories : Lab. of Power and Agricultural Machinery, Lab. of Land and Water Resources Engineering, Lab. of Food and Post-harvest Engineering, Lab. of Environmental Engineering and Agricultural Infrastructure, and Lab. of Biophysics.
3. Department of Agroindustrial Technology, supported by 6 laboratories : Lab. of Industrial System Management, Lab. of Simulation and System Analysis, Lab. of Production System, Lab. of Industrial Engineering and Co-Product Handling, Lab. of Quality Analysis and Standardization, and Lab. of Bioindustry.

### Library

Collection of books, scientific journals and research reports for the learning activities are available in the faculty. Besides, the students can also take advantage of university library and library of Center for Food and Nutrition Studies.

### Communication and Information Technology Unit

The unit serves to provide information related to student and faculty activities, such as schedule, scholarship opportunities, job vacancies, and others.

### Business Incubation Unit

The three departments in the faculty organize the business incubation unit, which facilitates the development and the incubation of the product prototypes into commercial-ready products.

### Cafeteria

To support academic activities of the student and staff, the faculty is also equipped with a large and hygienic cafeteria providing various Indonesian food and snacks.

### Center for Development of Agroindustrial Technology and Management

The unit is responsible to create cooperation with potential stakeholders and to conduct training activities in the field of agroindustry.

### Curriculum

The faculty implements Student Centered Learning (SCL) as a standard method of delivery in the learning and teaching activities, creating an atmosphere in which the students as the subject and the teaching staffs as the facilitator of the learning activities. The faculty designs the curriculum with the workload that can be accomplished in 4, 2, and 3 years for the undergraduate, master and doctoral degrees, respectively.

### Cooperation Experience

Currently, the faculty has more than 86 mutual cooperation with stakeholders such as universities, food and agricultural products based industries, local government, estate crop companies, research organizations and accreditation and standardization institution. The faculty regularly conducts student and staff exchange program with its partners in foreign countries as one of the cooperation implementation.

### Scholarship

There are more than 500 students who received scholarship offered by the universities and the other scholarship foundations.



### Faculty Achievement

The faculty has received competitive grants both nationally and internationally. In the past 10 years, there were 7 grant competitions received by the faculty. In addition to institutional grants, the academic staffs have also received research grants, which contribute the development of agroindustrial science and the completion of students research projects. Besides, the students also have won various competitions both at national level such as the scientific student competition, and at international level such as the IFT student competition.

### Extracurricular Activities

The faculty supports the extracurricular activities for the students, which may improve student's soft skills. The students have more than 10 organizations, which are financially supported by the faculty, to improve their soft skills.

### Prospect for Graduates

Most of the graduates work as entrepreneurs or work in the food and non food material based industries, estate crop companies, research institutions, and governmental institutions.

### Student Enrollment

Those who will register must take the examination held by Universitas Gadjah Mada. Further information can be accessed at <http://www.ugm.ac.id>. For graduate programs, the registration is offered in every semester.

# INTRODUCTION

Faculty of Agricultural Technology Universitas Gadjah Mada is the oldest agricultural technology faculty in Indonesia, which was part of Faculty of Agriculture in the same university before 19 September 1963. Faculty of Agricultural Technology focuses its study on the development and the application of technology to develop agriculture sector involving several fundamental and applied sciences such as chemistry, biology, microbiology, mathematics, physics, soil conservation engineering, industrial design, food and agricultural product technology, preservation technology, product development, process optimization, system analysis and management in agroindustrial system. Through these studies, the faculty tried to be a center of excellence in conducting educational activities, research and community service in the field of agro-industry. To assure its academic quality services, since 2008 the faculty also has been implementing and certified with ISO 9001:2008.

## Undergraduate Program

### 1. Undergraduate Program in Food and Agricultural Product Technology

The Undergraduate Study Program of Food and Agricultural Product Technology is aimed to generate human resource in gaining high competency of food and agricultural product technology with emphasized in process of research based learning on food chemical/biochemical, food biotechnology, food engineering and nutrition aspects.

### 2. Undergraduate Program in Agricultural Engineering

The program aims to develop human resource who mastered agricultural and biosystem engineering principal.

### 3. Undergraduate Program in Agroindustrial Technology

The programs aims to generate qualified graduates who are able to integrate managerial-, engineering-, and processing technological aspects of agroindustrial system in an optimal ways. In general, the aspect of management, engineering and processing technology are the key elements in running industry optimally, while agriculture in the main aspect to achieve the running success of bio-industrial activities, which have specific properties compared with other industries.

## Master Program

### 1. Master Program in Food and Science Technology

The Postgraduate Study Program of Food Science and Technology is aimed to (1) generate the master graduate possessing high competency in food science and technology; (2) provide technical skill in performing research and development activities; (3) prepare the master graduate with high qualification to precede further study in world class university.

### 2. Master Program in Estate Crop Technology

The Postgraduate Study Program of Estate Crops is aimed to (1) generate the master graduate possessing high competency in estate crops post-harvest handling and technology; (2) provide concept and technical skill in performing integrated research and development towards estate crop processing industry; (3) prepare the master graduate with high qualification to precede further study in world class university.

### 3. Master Program in Agricultural Engineering

The program focuses on the use of engineering and management principal on bio material production, handling, and processing based on the environment sustainability.

### 4. Master Program in Agroindustrial Technology

The objective of the establishment of Master Degree Program in the Department of Agro Industrial Tehcnology is to enable students in obtaining a more and deeper understanding of and an ability to apply the concepts and theory of system engineering, management, and technology of agro-industry and ability to communicate effectively, function on multi-disciplinary integration and have a knowlegde of partinent contemporary issue including diversity and globalization and recognize the need for a commitment to life-long learning.



## Doctoral Program

### 1. Doctoral Program in Food Science

The Doctoral Program in Food Science is aimed to generate the doctoral graduate having comprehensive concepts in food science development on research based. Upon completing of doctoral program, student should able to harmonize current problem in community and other discipline science, building the international networks, and maintaining leadership and information technology towards the development of food science.

### 2. Doctoral Program in Agricultural Engineering

The program aims to prepare its graduates with a deeper knowledge in engineering and biosystem competencies to fulfill stakeholders' needs. The students who have completed the program should be able to discover, create, contribute to the development of science and technology through scientific research and develop into a professional in the field of agricultural engineering. Doctoral Program of Agricultural Engineering consist of four concentrations of study : (1) Land and Water Resources Engineering (LWRE); (2) Biosystem and Information Engineering (BIE); (3) Post Harvest and Food Engineering (PHHE); (4) Agro Industrial Sciences (AIS).



## Human Resources

The faculty has sufficient qualified and certified teaching staffs, who graduated from reputable universities in the world. A number of 83 experienced teaching staffs (about 62% hold PhD and 38% hold master) were distributed in 16 laboratories and research center in the faculty.