

Course Detail
Master of Science Program in Agriculture Biotechnology

Course Title:	Master of Science Program in Agricultural Biotechnology
Master Degree:	M.S. (Agricultural Biotechnology)
Academic Institution:	Faculty of Agriculture Natural Resources and Environment, Naresuan University
Duration:	2 years (June 2020 – May 2022)

Objectives:

To offer master degree courses in Agricultural Biotechnology.

To apply advanced knowledge in Agricultural biotechnology for agriculture improvement.

Course Synopsis and Methodology:

This course is designed to provide advanced training in the use of recent technological developments in agricultural biotechnology. The major topics covered include plant biotechnology, molecular plant breeding, plant cell and tissue culture, animal biotechnology, fisheries biotechnology, industrial biotechnology and microbial biotechnology.

The course will train students with theoretical knowledge, communication, and management skills which in turn, allow them to become efficient researchers concerning over ethics of agricultural biotechnology.

Study plan (Plan A, Type A 1) 36 Credit

Year	Semester 1	credits	Semester 2	credits
Year 1	110511 Research Methodology in Science and Technology (non-credit)	3(3-0-6)	110501 Agricultural Biotechnology Seminar I (non-credit)	1(0-2-1)
	110591 Thesis I, Type A 1	9	110592 Thesis II, Type A 1	9
Year 2	110502 Agricultural Biotechnology Seminar II (non-credit)	1(0-2-1)	110594 Thesis IV, Type A	9
	110593 Thesis III, Type A	9		

Course Description**110501 Agricultural Biotechnology Seminar I 1(0-2-1)**

The first interpretation, presentation and discussion on research topics in agricultural biotechnology, industrial biotechnology, and current knowledge in agricultural biotechnology

110502 Agricultural Biotechnology Seminar II 1(0-2-1)

The second interpretation, presentation and discussion on research topics in agricultural biotechnology, industrial biotechnology, and current knowledge in agricultural biotechnology

- 110511 Research Methodology in Science and Technology 3(3-0-6)**
 Research definition, characteristic and goal, type and research process, research problem determination, variables and hypothesis, data collection, data analysis, proposal and research report writing, research evaluation, research application, ethics of researchers and research techniques in science and technology
- 110591 Thesis I, Type A 1 9 Credits**
 The basic overview of the thesis and its educational objectives, structure and formatting of master degree's thesis, suggesting thesis proposal elements, Identify a thesis theme
- 110592 Thesis II, Type A 1 9 Credits**
 Performing a thorough review of the literature in the area of thesis theme and presentation, developing in research methodology including a description of research design, the type of data to be collected, the method of collection, and how the data will be evaluated, presenting a thesis proposal to thesis advisor and committee
- 110593 Thesis III, Type A 1 9 Credits**
 Conducting thesis research to demonstrate mastery of a body of knowledge in agricultural biotechnology, preparation of a scientific manuscript for publication, writing the master thesis document following the thesis guidelines
- 110594 Thesis IV, Type A 1 9 Credits**
 Presenting the master thesis to the colloquium which either approved, rejected, or conditionally approved with recommendations for improvement, ratifying the work and submitting it to the graduate school

Course Content

The Master of Science Program in Agricultural Biotechnology has both credit and non-credit courses which focus on two approaches, the first is plant biotechnology, and the second is industrial biotechnology. Student have to undertake basic, applied and adaptive research to generate appropriate technologies to support sustainable agriculture or to address current and future challenges of farming community and to provide technology options relevant to the agro-climatic situations.

Graduation Conditions:

1. The complete 36- credit course
2. The complete thesis submission
3. The international research publication in Scopus or ISI
4. The English score certificate according to the university requirement

Applicant Qualifications

Applicants to the program must be holding a bachelor's degree in agricultural science, biology, biochemistry, microbiology, genetics or related fields from an accredited college or university. Special consideration is given to applicants with work experience. The program admissions committee makes all admission recommendations on case-by-case basis.

Document Required

1. Entrance requirements

Graduate with a bachelor's degree or equivalent in the field of Science or related field. Other qualifications are in accordance with the Naresuan University graduate studies requirement.

2. Document for application

2.1 Postgraduate Application Form

2.2 A recent photograph.

2.3 Copy of degree certificate or letter of recommendation for degree pending.

2.4 Copy of academic transcript.

2.5 Copy of national or official identification card or passport.

2.6 An official English test score taken within the last two years is required for applicants who are not native speakers.

- A minimum paper based TOEFL of 417
- A minimum internet based TOEFL of 35 or
- A minimum IELTS score of 5.0 or

2.7 Other evidence and document have been required by the program that the applicant wants to apply for.

Contact:

Asst.Prof.Dr. Kumrop Ratanasut
Department of Agricultural Science,
Faculty of Agriculture, Natural Resources and Environment,
Naresuan University, Thailand
Telephone: 055-962736
Email: kumropr@nu.ac.th

***The application procedure will complete when TICA has received the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible countries/ territories.