

## **Course Detail**

### **Master of Science in Agricultural Research and Development**

**Course Title:** Master of Science in Agricultural Research and Development  
(International Program)

**Master Degree:** Master of Science (Agricultural Research and Development)

**Academic Institution:** Faculty of Agriculture at Kamphaeng Saen, Kasetsart University,  
Kamphaeng Saen Campus

**Duration:** 2 years (4 semesters) (August 2022 – July 2024)

#### **Background and Rational**

1. Agricultural Research and Development Program is the research study which response to national and international development strategy for food security and sustainable agricultural development

2. Agricultural development

Global climate change affects soil fertility, water shortage, the reduction of agricultural product quality, pest outbreak. These cause effects to food security, health, energy and the reduction in a strategy of self-reliance. Thus, we need to develop human resources with agricultural knowledge and research skill.

#### **Objectives:**

1. To develop human resources with knowledge and research skill in agricultural development in relation to industrial agriculture, sustainable agriculture, self-sufficient agriculture, application of traditional knowledge in agriculture and development of a unique agricultural product of a local community.

2. To cover the whole range from agricultural production through consumer need which would lead to the security of food, society, and the country as a whole. Integration of a modern bioscience, agricultural science, and other technologies is emphasized in the learning process.

3. The program consists of various fields including **Entomology, Agricultural Machinery, Soil Science, Agronomy, Horticulture, Plant Pathology, Animal Science and Agricultural Extension and Communication.**

## Course Synopsis and Methodology:

### 1. Study Plan

Plan A1: total credits minimum of 36

<b>FIRST YEAR / 1<sup>st</sup> semester</b>		
<b>Course code</b>	<b>Course Title</b>	<b>Credits</b>
02047591	Research Methods in Agricultural Research and Development	(3)
02047599	Thesis	6
	<b>Total</b>	<b>6</b>
<b>FIRST YEAR / 2<sup>nd</sup> semester</b>		
<b>Course code</b>	<b>Course Title</b>	<b>Credits</b>
02047597	Seminar	(1)
02047599	Thesis	10
	<b>Total</b>	<b>10</b>
<b>SECOND YEAR / 1<sup>st</sup> semester</b>		
<b>Course code</b>	<b>Course Title</b>	<b>Credits</b>
02047597	Seminar	(1)
02047599	Thesis	10
	<b>Total</b>	<b>10</b>
<b>SECOND YEAR / 2<sup>nd</sup> semester</b>		
<b>Course code</b>	<b>Course Title</b>	<b>Credits</b>
02047599	Thesis	10
	<b>Total</b>	<b>10</b>

### 2. Course Content / Study Topics

#### Curriculum

Plan A1: A research oriented program

Total credits	minimum	36credits	
- Major courses	minimum	5	audits
(without credits counting in total)			
o Seminar		2	audits
o Compulsory courses		3	audits
- Thesis	minimum	36	credits
Details of the Curriculum			
- Major courses	minimum	5	audits
02047591	Research Methods in Agricultural Research and Development		3(3-0-6)
02047597	Seminar		1,1
- Thesis	minimum	36	credits
02049599	Thesis		1-36 credits

**Course Description:**

02047591	Research Methods in Agricultural Research and Development	3(3-0-6)
	Research principles and methods in agricultural research and development, problem analysis for research topic identification, data collecting and research planning, identification of samples and techniques, research analysis, result explanation and discussion, report writing, presentation and preparation of journal publication.	
02047597	Seminar	1
	Presentation and discussion on current interesting topics in agricultural research and development at the master's degree level.	
0204599	Thesis	1-36
	Research at the master's degree level and compile into thesis.	

**Graduation Conditions:**

1. Students are required to submit their thesis and successfully pass a final oral examination conducted by a committee appointed by The Graduate School. The final oral examination must be held openly and interested people can attend the examination.
2. Students achieve either publication, or at least approval for publication of thesis, or parts thereof, in acceptable national or international journals as announced by the Office of the Higher Education Commission on "The Criteria of Academic Journal for Publication Consideration"
3. Students are required to pass the English language examinations set forth by The Graduate School in at least one of the following choices:
  - 3.1 The Graduate School permits a transfer of both written and oral examinations for master's degree students from KU-EPT, TOEFL, IELTS, or other examinations as required by The Graduate School. *or*
  - 3.2 Enrollment in an English class as required by The Graduate School and need to pass the pertinent examinations.

**Application Qualifications:**

1. Applicant must hold a bachelor's degree in agriculture or the relevant fields with good academic background and a potential to conduct research and meet the university's admission requirements.
2. Qualification requirements of applicants are subject to Kasetsart University Regulations on Graduate Studies of The Graduate School, Kasetsart University.

**Document Required:**

1. Application form (<http://www.grad.ku.ac.th/en>)
2. Certificate of Bachelor's degree indicating graduate date.
3. Transcript record of Bachelor's degree indicating graduate date.
4. Curriculum Vitae.
5. Conceptual proposal of research interested.
6. Recommendation Letter.

**Contact:**

Contact persons for Academic

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\*\*\*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.