

Course Title  
Master of Science Program in Agriculture

Master Degree: Master of Science Program in Agriculture

Academic Institution: Faculty of Agriculture, Khon Kaen University, Khon Kaen

Duration: 2 years

Objective:

Master of Science Program in Agriculture aims to produce graduates with the ability to conduct the research, apply new and emerging scientific findings, technologies and philosophy to benefit the development in agriculture through completion of high quality courses and/ or high quality research.

Upon the completion of the degree, students will have the following capabilities

1. A good understanding of principles and theory in agriculture and related fields and apply knowledge to enhance their professionals.
2. Apply research skill in obtaining new knowledge and to address local, regional, national and/ or global problems associated with agriculture.
3. Effectively communicate and disseminate research and technical information.
4. Function on multidisciplinary teams and become outstanding leaders.
5. An understanding of professional and ethical responsibility.

Course Synopsis and Methodology:

Program offering

1. By course work (20 credits for course work and 18 credits for thesis)
2. By research (38 credits for thesis)

Course Content/Study Topic:

Sample Classes

1. Precision Agriculture
  - Simulation Model for Precision Crop Production
  - Smart Machineries for Crop Production

- Plant Factory Techniques for Food Security
- Geographic Information Systems for Agriculture
- Resource Management for Sustainable Agriculture
- 2. Organic Agriculture
  - Soil, Water and Environment Management
  - Biocontrol for Insect Pests
  - Biocontrol for Plant Disease
  - Organic Plant Production
  - Organic for Animal Production
  - Organic Seed Production
  - Law and Regulations on Organic Agriculture and Food Safety
- 3. Sustainable Agriculture and Rural Development
  - System Theories and Concepts
  - Sustainable Agricultural and Rural Development
  - Analysis of Agro-ecosystems, Resource Systems and Community Systems
  - Project Planning and Evaluation
  - Management of Rural Development Project

**Qualification:**

1. Holding a Bachelor's degree or equivalent academic credentials in Agriculture, with a minimum undergraduate grade -- point average (GPA) of 2.75. All GPSs are based on a 4.00 scale.
2. Every applicant whose native language is not English, or whose undergraduate score will not be accepted if it is more than two years old from the start of your admission term. The English proficiency tests are accepted for graduate admissions TOEFL/IELTS.

**Document required:-**

- Prospective students can obtain the information, application form, and reference forms from <http://es.kku.ac.th/home/images/news/admission/eng/applicationpack.pdf>.
- Supplemental document, such as an essay about research interest, can be submitted with the application forms.

Closing date for Nominations: August, 2017

Late or incomplete applications/document will not be considered.

Course Title

**Master of Science Program in Bioscience for Sustainable Agriculture**  
(International Program)

**Master Degree: Master of Science Program in Bioscience for Sustainable Agriculture**  
(International Program)

**Academic Institution:** Faculty of Animal Sciences and Agricultural Technology,  
Silpakorn University, Phetchaburi IT Campus

**Duration:** 2 years

**Objective:**

The objective of the curriculum is to develop the graduate with the following qualifications:

1. The ability to comprehend both philosophy of sustainability and concept of sustainable agriculture.
2. The ability to analyze and identify both problems and strength of the mainstream agricultural development and propose measures to solve them.
3. The ability to transfer appropriate research outcome to other stakeholders working in sustainable agriculture.
4. The ability to recognize differences and work with others while maintaining leadership.
5. The ability to be responsible to oneself and to the society with integrity and professional morals.

**Couse Synopsis and Methodology:**

This program requires the candidate to take courses no less than 24 credits plus the research which is equivalent to 12 credits. The degree shall be awarded when the students fulfill one publication in the international refereed journals.

**Couse Content/Study Topic:**

**The First year**

**First Semester**

715501 Cell Science and Molecular Biology	3(3-0-6)
715502 Sustainable Agriculture and Marketing	3(2-0-6)

715503 Research Methodology and Statistical Techniques	3(3-0-6)
715504 Seminar	1(1-0-2)
<b>Total</b>	<b>10 credits</b>
<b>Second Semester</b>	
715505 Seminar 2	1(1-0-2)
715xxx Elective Course	3(x-x-x)
715xxx Elective Course	3(x-x-x)
<b>Total</b>	<b>7 credits</b>
<b>The Second year</b>	
<b>First Semester</b>	
715506 Seminar 3	1(1-0-2)
715xxx Elective Course	3(x-x-x)
715599 Thesis	6 credits
<b>Total</b>	<b>10 credits</b>
<b>Second Semester</b>	
715xxx Elective Course	3(x-x-x)
715599 Thesis	6 credits
<b>Total</b>	<b>9 credits</b>

**Qualification:**

The applications must held a bachelor's degree or equivalent in Agriculture, Science or a related field, or another degree by the consent of the Curriculum Administration Committee, Faculty of Animal Sciences and Agricultural Technology Silpakorn University

**Document required:-**

- Certified copy of transcript of record
- Certified copy of degree certified
- Copy of TOEFL, IELTS, TOEIC or equivalent test result
- Two letters of recommendations from the faculty members of the home institutes
- letter of permission from the Dean/Director/Rector/Vice Chancellor/President of the home institutes in case the candidate has been working as the staff member in the organizations

Closing date for Nominations: June 28, 2017

**Late or incomplete applications/document will not be considered.**

**Course Title**  
**Master of Science program in Tropical Agriculture**  
**(International Program)**

**Master Degree:** Master of Science program in Tropical Agriculture (International Program)

**Academic Institution:** Kasetsart University, Bang Khen campus, Bangkok

**Duration:** 1<sup>st</sup> semester from mid August – mid December and  
2<sup>nd</sup> semester from mid January – mid May

**Objective:** The program aims to enhance food security, income and well-being of human capital by adoption of agriculture science and technology in the tropical zone. The students must conduct research related activities to increase agricultural production, improve food system and sustainable manage natural resources, in partnership with national and international stakeholders.

**Course Synopsis and Methodology:**

**Plan A Option 1:** Total credits required: minimum 36 credits

(1) Major courses: minimum 5 credits (audit)

- Seminar: 2 credits

01013597 Seminar

1,1

- Major requirements: 3 credits

01013591 Research Methods in Tropical Agriculture

3(3-0-6)

(2) Thesis: minimum 36 credits

01013599 Thesis

1-36

**Plan A Option 2:** Total credits required: minimum 36 credits

(1) Major courses: minimum 18 credits

- Seminar: 2 credits

01013597 Seminar

1,1

- Major requirements: 6 credits

01013591 Research Methods in Tropical Agriculture

3(3-0-6)

01013592 Agriculture in the Tropics

3(3-0-6)

- Major electives: minimum 10 credits



Students are required to choose at least 7 credits of graduate courses in an agricultural area and/or at least 3 credits from closely related field. Approval depends upon the decision of the student's advisory committee, and consent must be obtained from the student's Graduate Committee Chairperson, and the Dean of The Graduate School.

(2) Thesis: minimum 18 credits

01013599 Thesis

1-18

### Course Description

01013591 Research Methods in Tropical Agriculture

3(3-0-6)

Research principles and methods in tropical agriculture and problem analysis for research topic identification, data collection for research planning, identification of samples and techniques. Analysis, interpretation and discussion; of research result. Report writing for presentation and publication

01013592 Agriculture in the Tropics

3(3-0-6)

Bio-geography and biodiversity in the tropics. Agricultural technology and production systems, agroindustry, logistics, economics and marketing of agricultural products and produces. Impacts of climate change on food and energy security. Laws and regulations related to biodiversity, agriculture and trade. Field trip required.

01019597 Seminar

1

Presentation and discussion on current interesting topics in tropical agriculture at the master's degree level.

01013599 Thesis

1-36

Research at the master's degree level and compile into a thesis.

**Qualification:** Graduated with a bachelor's degree in Agriculture or related field

### Document required:

- Complete application form
- A copy of passport
- 3 photos 2" (size), Not older than 6 month
- Curriculum Vitae
- A conceptual proposal for graduate applicant (3-4 pages)

- 3 recommendation letters from 3 reference persons
- IELTS overall scores 5.0 or equivalent TOEFL
- A scan of certificate scholarship award letter (if applicable)
- Scan of original degree certificate and complete transcript of Bachelor's with authorized English translation (for graduate applicant)
- Scan of original high school transcript record or equivalent with authorized English translation (for undergraduate applicant)
- A motivate letter
- A recommendation letter from home institution
- A scan of official transcript of your current degree in English language
- A scan of an official consent letter from home institution verifying you as and exchange student
- A scan of certified scholarship award letter with your name mentioned as a grant holder (if applicable)

Closing date of Nominations: early July 2017 for 1<sup>st</sup> semester  
early December 2017 for 2<sup>nd</sup> semester

Late or incomplete applications/document will not be considered.

**Course Title**  
**Master of Science Program in Disaster Management**  
**(International Program)**

**Master Degree:** Master of Science Program in Disaster Management (International Program)

**Academic Institution:** Faculty of Engineering, Naresuan University, Pitsanulok

**Duration:** 2 years

**Objective:**

1. To produce graduates with the knowledge, skills and ability in the area of Disaster Management in order to increase the capacity to cope with disaster impacts.
2. To construct new knowledge related to Disaster Management in a context of the Asian region.

**Couse Synopsis and Methodology:**

No.	Description	Number of Credits in the new curriculum 2017, Plan A, Type A2
1	Course work - a minimum of	24
	1.1 Core courses	9
	1.2 Elective courses	15
2	Thesis	12
3	Required Non - credit	5
	Total number of credits - a minimum of	36

**Couse Content/Study Topic:**

Disaster is defined as a serious disruption of the functioning of a community or a society. A disaster can interrupt essential services such as transportation, communications, electricity, health care and so on. Poor planning of responses can have a significant negative impact. Disaster Management is needed to substantially reduce disaster losses. Disaster Management can be defined as the organization and management of resources and responsibilities for dealing with all humanitarian aspects of emergencies, in particular preparedness, response and recovery in order to lessen the impact of disasters.



In order to meet these needs for a more holistic approach to Disaster Management, Naresuan University is offering a Master's program, based on the above philosophy.

Research Focus:

- GIS and Remote Sensing Application for Disaster Management
- Early Warning System
- Community – based Disaster Risk Reduction
- Climate Change Adaptation
- Hazard Mapping
- Disaster Resilience

Courese:

Curriculum Plan A, Type A2

Course work - a minimum of 24 credits

1. Core Courses - Take all the following courses 9 credits

314501 Introduction to Disaster Management 3(3-0-6)

314502 Disaster Risk Management 3(2-0-6)

314503 GIS and Remote Sensing in Disaster Management 3(2-5-5)

2. Elective Courses

Select 9 credits within one of the following groups and any 6 credits from any following groups,

a) Science Technology

314511 Meteorological Hazards 3(2-2-5)

314512 Geological Hazards 3(2-2-5)

314513 Hydrological Hazards 3(2-2-5)

314514 Industrial Hazards 3(2-2-5)

314515 Fire Hazards 3(2-2-5)

314516 Hazards Forecasting and Early Warning Systems 3(3-0-6)

314517 Urban and Rural Planning and Hazards Mapping 3(2-2-5)

314518 Climate Change Adaptation and Mitigation 3(3-0-6)

314519 Selected Topics in Disaster Management 3(2-2-5)

(Science Technology)

b) Social Science

314521 Disaster Resilience Leadership	3(3-0-6)
314522 Community – Based Disaster Risk Reduction	3(2-2-5)
314523 Earthquake Vulnerability Reduction	3(3-0-6)
314524 Legal and Policy in Disaster Management	3(3-0-6)
314525 Disaster Management in ASEAN Context	3(2-2-5)
314526 Role of Media in Disaster Management	3(2-2-5)
314527 Business Continuity Management	3(2-2-5)
314528 Selected Topics in Disaster Management (Social Technology)	3(2-2-5)

c) Health Science

314531 Health Management	3(3-0-6)
314532 Nutrition in Emergencies	3(3-0-6)
314533 Public Health in Complex Emergencies	3(3-0-6)
314534 Public Health Response in Disasters	3(3-0-6)
314535 Selected Topics in Disaster Management	3(2-2-5)

3. Thesis

314591 Thesis 1, Type A2	3 credits
314592 Thesis 2, Type A2	3 credits
314593 Thesis 3, Type A2	6 credits

4. Required Non – credits

314594 Research Methodology in Science and Technology	3(3-0-6)
314595 Seminar 1	1(0-3-1)
314596 Seminar 2	1(0-3-1)

**Qualification:**

1. Students are required to have at least bachelor' degree in Engineering or Science or a relevant degree with the experiences in Disaster Management and a good level of the English Language proficiency.

2. Students are required to have the characteristics and academic qualifications according to the regulations for Graduate Studies and addition regulations of Faculty of Engineering.

**Document required:-**

- Educational background document/certificate of degree.
- Official closed transcript of records.
- An English proficiency score. Only the score of an English proficiency test obtained from these testing agencies: TOEFL or IELTS is accepted unless English is the official language of the country.
- Two official recommendation letters written in the letter head of referee's university.
- one page statement of purpose, which includes field and level of study that you would like to apply for.
- Photocopy of passport (bearer's details) or ID Card.
- One – page CV affixed with a recent photo.
- Less than 6 month medical examination result.

**Closing date for Nominations:** May 31, 2017

**Late or incomplete applications/document will not be considered.**

## Course Title

Master of Science Program in Renewable Energy  
(International Program)

Master Degree: Master of Science Program in Renewable Energy  
(International Program)

Academic Institution: School of Renewable Energy Technology, Naresuan University,  
Pitsanulok

Duration: 2 years, start on August 2017

## Objective:

The School aims to produce graduate student having characteristics as

1. To be knowledgeable, skillful, and experienced in advanced – level renewable energy fields and capable to integrate by emphasizing on progressive development of World's renewable energy knowledge.
2. To be capable of researching in renewable energy fields systemically.
3. To be full of merit, ethics, and continuously inquisitive.

## Course Synopsis and Methodology:

The course will be taught in English. The students must take coursework and write a thesis emphasizing high quality research.

## Course Content/Study Topic:

## The first year

## First Semester

852501 Research Methodology in Science and Technology	3(3-0-6) (Non - credit)
852504 Instrumental Techniques in Renewable Energy Research	3(2-3-5)
852505 Renewable Energy	3(2-3-5)
852506 Thermal – Fluids	3(2-3-5)
<b>Total</b>	<b>9 credit</b>

#### Second Semester

852507 Simulation, Design and Optimization of Energy System	3(2-3-5)
852xxx Elective Course	3(x-x-x)
852502 Seminar 1 (Non - credit)	1(0-3-1)
852591 Thesis 1, Type A2	3
Total	9 credit

#### The second year

##### First Semester

852xxx Elective Course	3(x-x-x)
852xxx Elective Course	3(x-x-x)
852503 Seminar 2 (Non - credit)	1(0-3-1)
852592 Thesis 2, Type A2	3
Total	9 credit

##### Second Semester

852xxx Elective Course	3(x-x-x)
852593 Thesis 3, Type A2	6
Total	9 credit

#### Qualification:

##### Qualification for Admission

This program is open to applicants who have a degree in Engineering, Science, or are in the final semester of their study.

##### Requirement for Graduation

- 1) Complete all course requirement of the program
- 2) Satisfy the English proficiency requirement
- 3) Have at least one article published in journal or conference proceeding accepted by Naresuan University
- 4) Complete a dissertation of original research work and successfully defend it.

**Document required:-**

- Three (3) copies of TICA Application Form affixed with colored photographs.
- Two (2) letter of recommendation or references and two (2) copies of each.
- Educational certificates and two (2) copies of each.
- Academic transcript (Mark sheets) of studies in English and two (2) copies of each.
- English Language certificates e.g. TOEFL, IELTS and two (2) copies of each
- Three (3) copies of Personal Identify Card or Passport or Official Card.
- Document to certify change of name or surname and/or marital status (if any)
- Other supporting document.

**Closing date for Nominations:** May 31, 2017

**Late or incomplete applications/document will not be considered.**



## Course Title

Master of Science/Master of Engineering (Energy Technology and Management)

Master Degree: Master of Science/Master of Engineering (Energy Technology and Management)

Academic Institution: The Joint Graduate School of Energy and Environment, King Mongkut's University of Technology Thonburi, Bangkok

Duration: 2 years

Objective: 1) To educate advanced level engineers and scientists equipped with a mix of fundamental knowledge in energy and environmental technology as well as management, analytical skills and communication skill in English, and a professional orientation

2) To nature future energy and environmental engineers and scientists with a sound appreciation of the potential impacts on the environment due to energy production and use

3) To contribute to the body of the knowledge and solutions of challenging energy related environmental problems in industry or at governmental level

## Course Content/Study Topic:

## A. Compulsory Courses

7 Credits

Plan A – 1, Plan A – 2

JEE 601 Seminar for M.Eng/M. Sc (Energy Technology and Management) 1 credit

JEE 613 Research Methodology 3 credits

JEE 625 Energy and Environmental Economics, Management and Policy 3 credits

Plan B

JEE 601 Seminar for M.Eng/M. Sc (Energy Technology and Management) 1 credit

JEE 631 Strategic Planning and Project Management 3 credits

JEE 625 Energy and Environmental Economics, Management and Policy 3 credits

## B. Specific Compulsory Courses

9 credits

Plan A – 1, Plan A – 2

(Select at least 3 courses based on student research focus)

- Advanced Fuel Processing Laboratory (AFPL)	
JEE 642 Fuels and Combustion	3 credits
JEE 643 Energy System Modeling	3 credits
JEE 657 Catalytic Processes and Reaction Engineering	3 credits
JEE 658 Renewable Energy Technologies	3 credits
JEE 659 Energy from Biomass	3 credits
- Building Energy Science and Technology Laboratory (BEST)	
JEE 633 Energy Management in Industry	3 credits
JEE 634 Climate Influence on Buildings and End – use Requirements	3 credits
JEE 635 Building Utility Design and Wasted Management	3 credits
JEE 636 Building Performance Assessment	3 credits
JEE 637 Daylighting Applications	3 credits
JEE 638 Advanced Topics in Building Energy Technology	3 credits
JEE 639 Building Economics and Finance	3 credits
JEE 647 Design of Suitable Urban Ecology	3 credits
- Tropical Climate Science Modeling Laboratory (TCSM)	
JEE 661 Tropical Climates and Boundary Layer Science	3 credits
JEE 664 Atmospheric and Air Quality Modeling	3 credits
JEE 666 Atmospheric Science	3 credits
JEE 669 Physical Oceanography and Ocean Modeling	3 credits
- Advanced Greenhouse Gases and Aerosols Research Laboratory (AGAR)	
JEE 673 Waste and Climate Change	3 credits
JEE 685 Climate Change: Physical Science Basis	3 credits
JEE 694 Carbon Mechanism Management and Business	3 credits
JEE 695 Greenhouse Gas Mitigation Technology	3 credits
JEE 696 Greenhouse Gas Measurement, Monitoring and Accounting	3 credits
- Life Cycle Sustainability Assessment Laboratory (LCSAL)	
JEE 667 Environmental Pollution Control Technology	3 credits
JEE 671 Life Cycle Assessment	3 credits
JEE 681 Environmental Chemistry and Toxicology	3 credits
JEE 682 Environmental and Health Risk Assessment	3 credits
JEE 683 Energy and Environment	3 credits
JEE 684 GIS and Remote Sensing	3 credits

- Energy and Environmental Policy Laboratory (EEPL)	
JEE 626 Energy and Environmental Econometric Modeling and Analysis	3 credits
JEE 627 Foundation of Economics	3 credits
JEE 628 Financial Analysis and Project Appraisal	3 credits
JEE 631 Strategic Planning and Project Management	3 credits
JEE 697 Energy Outlook and Green House Gases Emissions in ASEAN	3 credits
- Others	
JEE 603 Special Study I	3 credits
Plan B	
JEE 623 Principle of Accounting and Financial Management	3 credits
JEE 624 Principle of Management and Administration	3 credits
JEE 629 Marketing Research	3 credits
<b>C. Elective Courses</b>	
Plan A – 1, Plan A – 2	
Elective as Recommended by Advisor	3 credits
Plan B	
JEE 634 Climate Influence on Buildings and End – Use Requirements	18 credits
JEE 651 Heat and Power Generation Technologies	3 credits
JEE 653 Solar Energy	3 credits
JEE 654 Oil and Natural Gas Technologies	3 credits
JEE 656 Energy Efficiency	3 credits
JEE 658 Renewable Energy Technologies	3 credits
JEE 689 Energy from Biomass	3 credits
JEE 671 Life Cycle Assessment	3 credits
JEE 674 Wasted to Energy	3 credits
JEE 698 Carbon Trading	3 credits
JEE 703 Selected Topics 1	3 credits
JEE 713 Selected Topics 2	3 credits
<b>D. Thesis/Internship/Research Study</b>	
Plan A – 1	
JEE 630 Thesis	21 credits
Plan A – 2	
JEE 610 Thesis	12 credits
JEE 616 Internship or JEE617 International Internship	9 credits

## JEE 618 Research Study

Qualification:

- 1) The applicant must hold a first degree in Engineering, Science, Technology with the least final GPA of 2.75 or is placed in the top 25% of the class or being approved by curriculum committee
- 2) Applicant should pass English entrance examination conducted by KMUTT or pass standard English proficiency test standard TOEFL – PBT 500 score, TOEFL – iBT 61 score, IELTS 5.5
- 3) It is recommended that applicants should consult with their would – be supervisor on the possible thesis topic before applying.

- Complete all course requirements of the program.
- Satisfy the English proficiency requirement.
- Have at least one article published in National journal accepted by The Joint Graduate School of Energy & Environment.
- Complete a thesis of original research work and successfully defend it.

- 1 recent photograph 1 inch size
- Transcript (if incomplete, must be submit certify letter)
- ID card or copy of passport (Bio page)
- 3 letters of recommendations
- Interview evaluation form (for an approach supervisor only)
- Tentative proposal
- Result of English performance test

Closing date for Nominations: first semester in May  
Second semester in November  
Late or incomplete applications/document will not be considered

## Course Title

Master of Science Program in Earth System Science

Master Degree: Master of Science Program in Earth System Science

Academic Institute: Interdisciplinary Graduate School of Earth System Science and Andaman  
Natural Disaster Management, Prince of Songkla University, Phuket Campus

Duration: 1<sup>st</sup> semester : August – December

2<sup>nd</sup> semester : January – July

**Objective:** The Master of Science Program in Earth System Science aims to produce graduates, who are fully equipped with high-level knowledge and research skills in the field of Earth System Science, and can create new knowledge and integrate interdisciplinary knowledge for preventing and solving natural disaster problems and managing natural resources and environment.

**Course Synopsis & Methodology:****- Curriculum Structure Total credits: 36**

Selected Topics (2 courses)	S/U credits
Special Studies (2 courses)	S/U credits
Graduate Thesis	36 credits

All courses are conducted in English. Selection of selected topic and special study courses is advised by the thesis advisor.

**- Graduation Requirements**

- 1) Have completed all required courses of the curriculum.
- 2) Have passed the qualifying examination.
- 3) Have passed the thesis proposal defense.
- 4) Have passed the thesis final defense.
- 5) Have the thesis published or have obtained acceptance of publication for a paper in a journal listed in the Scopus database or first two upper groups of the TCI database.

- 6) Have satisfied one of the following English proficiency requirements:  
TOEFL score not less than 550 (paper-based test) or 213 (computer-based test), or 80 (internet-based test)  
IELTS score not less than 6.0

**Course Content/Study Topic:**

Climate Change: Atmospheric model; Impact of Climate Change to organisms;  
Groundwater; Sea Intrusion; Landslide; Estimation of Greenhouse Gas Amount; Carbon  
Credit; Carbon Footprint Assessment; Land Use Change; Water Footprint Assessment; Energy  
Consumption Assessment; Ecotoxicity Assessment  
Conserve and sustainably use: Life Cycle Sustainability Assessment; Water Pollution;  
Air Pollution; Environmental Toxicology

**Qualification:**

1. The applicant must hold
  - a bachelor's degree within the 1st or 2<sup>nd</sup> quartile or
  - a graduate certificate with cumulative GPA not less than 3.00 or
  - a graduate diploma with cumulative GPA not less than 3.00 or
  - Must have a senior project or research study with very good quality.
  - All above must be obtained from universities approved by the PSU Interdisciplinary Graduate School Committee (IGSC).
  - Other applicants may be admitted on conditions that they receive approval from the PSU Interdisciplinary Graduate School Board.
2. The applicant must submit a TOEFL or an IELTS score.

**Document Required:**

- A statement of purpose and CV. The statement of purpose should contain the followings.
- Your general information.
  - Your purpose in graduate study.
  - The area of study in which you wish to specialize.
  - Your future use of your graduate study, your career goals.



- Your special preparation and fitness for study in the field. Your academic background, extracurricular experiences/achievements, and awards.

- Any problems or inconsistencies in your academic records. Indicate the areas that are your weak points or those needed improvement.

- The reasons you wish to attend ESSAND.

- An official transcript of academic records is required from each university you have attended. You are responsible for requesting the transcript(s) from the relevant University. Transcripts must be enclosed in an official SEALED envelope with its flap bearing the security seal of the university and the signature of the Registrar or representative. Graduates from PSU can submit copies of their result slips or transcripts.

- Applicants whose native tongue AND medium of university instruction is not completely in English have to submit the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) as evidence of their proficiency in the English language. TOEFL/IELTS scores are valid for two (2) years from the test date. If it has been more than two years since you last took the test, you must take it again to have the scores reported.

- Recommendations from two academic referees are to be submitted to *essand-admission@phuket.psu.ac.th*. You should check with your referees and obtain their institutional email address. Email addresses from domains other than ".edu" may be subject to additional screening and filtering. Alternatively, recommendations from your referees can be submitted via hardcopy. You should request your referees to return the recommendation form in a SEALED envelope, with its opening bearing their signatures across it.

- A copy of recent photograph of 1"x1" size

- A copy of citizen ID card/passport

- Please submit a copy of each of your publication(s), if any.

**Closing Date for Nominations:**

Intake	Closing Date
Semester 1 (August)	30 June
Semester 2 (January)	30 November

**Late or incomplete applications/document will not be considered.**

**Course title****Master of Science Program in Biology  
(International Program)**

Master Degree: Master of Science Program in Biology (International Program)

**Academic Institution:** Faculty of Science, Prince of Songkla University, Songkla

**Duration:** 2 years

**Objectives:** Students are able to conduct experiment, analyses and synthesize research in their selected fields, and be able to deliver such knowledge to public. The course will be emphasized on the current issue of climate changes, biodiversity, ecology and conservation.

**Course synopsis and methodology:**

Students need 36 credits including 2 credits of seminar I and II (core courses) and 14 credits (elected courses) for interested subjects, and 20 credits for thesis. We offer various courses covering all levels of biology studies from cells to ecosystem both in botany, zoology and ecology; and also in terrestrial, freshwater and marine ecosystems. Students will be provided with the essential courses to carry out their research such as experimental designs and scientific enquiries. Various tools in biological studies are also provided e.g. molecular techniques, field and laboratory techniques in various field of studies e.g. taxonomy and systematics, physiology and ecology.

**Course content/study topic:**

The study topics can range from taxonomy, systematic, biogeography, animal behavior plant-animal interactions, marine, freshwater and terrestrial ecology and conservation. In addition, there are a few number of research units that students could pick for their field of research e.g. plant research unit, physiology research unit, plankton research unit, coral research unit, seaweed and seagrass research unit, amphibian and reptile research unit, fish and crustacean research unit, bat and small mammal research unit. Those are with collaborations with Excellence Centre for Biodiversity of Peninsular Thailand and Prince MahaChackriSirindhorn Natural History Museum.

**Qualifications:**

1. Hold BSc in Biology or equivalent with GPA 2.75 or >2 years experiences in biology-related work.
2. TOEFL (Paper Based) >500, TOEFL (Computer Based) >150, TOEFL (Internet Based, iBT) >64, IELTS >5.0

**Document required:** BSc transcript, CV and English test.

**Late or incomplete applications/document will not be considered.**

Course Title

Master of Science Program in Food Technology

**Master Degree:** Master of Science Program in Food Technology

**Academic Institution:** School of Agro-Industry, Mae Fah Luang University, Chiang Rai

**Duration:** Two (2) academic years; 1<sup>st</sup> semester: August - December  
2<sup>nd</sup> semester: January - May

**Objective:**

The Master's program in Food Technology is aimed at students who want to learn more about agricultural and food products and who want to collaborate in the future social innovation. The program covers the design and production of foods with safe, health and trends. This program is research-oriented and focuses on the interface between complex food matrixes and technical processes in the development and production of value-added agricultural, food and nutritional products. In this program, students acquire expertise in the advanced knowledge of food matrixes and technical processes of foods to develop processing techniques and/or appropriate formulas combined with a thorough understanding agricultural and food products with safe, health and trend issues. The creation of innovative products and technologies, followed by transferring the results of research, according to consumers or user's need are the importantly key aspects of this program.

**Course Synopsis and Methodology:**

The Master's program in Food Technology (2017-2021), focuses on the interface between complex food matrixes and technical processes in the development and production of value-added agricultural, food and nutritional products. All course are designed to provide advanced knowledge of complex matrixes and manufacturing processes for creation and investigation of properties and compositions to optimize quality in the development and production of value-added agricultural, food and nutritional products. Courses feature both theoretical and practical learning. The core courses include Advanced Statistics and Experimental Design, Research Methodology and Seminar 1-2. Students can choose their own elective courses that meet student's personal interests in 5 areas, including

- (1) Food Chemistry and Food Analysis,
- (2) Food Safety and Food Microbiology,
- (3) Food Biotechnology,
- (4) Food Processing and Food Engineering and
- (5) Food Product Development and Food Innovation.

Recommended course based on the program objectives include Advanced Food Chemistry and Food Analysis, Nutraceutical and Functional Food, Advanced Food Processing, Quality Control and Design, Food Innovation and Product Design, Experimental Design in Innovative Product Development, Sensory Evaluation, Advanced Food Microbiology and Food Safety and so on. This program is research-oriented and requires research Master's thesis to demonstrate student's ability to conduct independent scientific work in a field of Food Technology. A student usually works together with an advisor to develop course goals and requirements.

The instructional methods are implemented using Outcome Based Education (OBE) as a tool to stimulate the active learning environment. Students are engaged in class activities in order to construct and develop their knowledge, communication, and skills. Various techniques, such as lectures, practical, seminars, intensive tutorials, individually supervised project, brainstorming, role playing, mind mapping, collaborative or cooperative learning, problem-based learning and case-study learning are used for appropriate learning objectives, providing a clear way to deliver the course schedule and engage students in class. Various assessment methods is used via Outcome Based Assessment (OBA) based on class activities and designed courses. After completing the program, students will gain advanced knowledge, communication, and success skills which allow them to become efficient researchers in national and international universities or institutions, project management, quality assurance, and technical supervision in the Food industry and its related-industries.

#### Course Content/Study Topic:

The curriculum of Master of Science Program in Food Technology offers 2 study plans, plan A1: Thesis and plan A2: Coursework and Thesis.

#### Plan A1 Thesis (36 Credits)

The degree requirement includes 36 credits of research-intensive Master's thesis and two seminar courses. Research-intensive Master's thesis allows students to demonstrate ability to



conduct independent scientific work under the supervision and approval of the thesis defense committee. Research topic can be academic in nature, or developed within industry, based on individual interests and/or current research project of lecturers in the Food Technology program. The research can be carried out either in Mae Fah Luang University or our collaborated-partners in abroad.

#### Plan A2: Coursework (24 Credits) and Thesis (12 Credits)

Program structure includes core courses and elective courses. Core courses emphasize on Advanced Statistics and Experimental Design, Research Methodology and Seminar 1-2. Elective course cover a broad range of subjects intended to broaden the student's knowledge. In the first year of the program, the focus lies on core courses and major elective courses connecting soft matter science approaches with advanced knowledge necessary to understand all aspects of the processing of a complex food matrix. Students can choose elective courses according to individual interests and preferred areas of specialization. Students become familiar with scientific approaches such as advanced concepts in processing methods, instrumental methods, research methods and statistical methods, communication skills and practical skills during seminars, lecture and practical hours. In the second year of the program, knowledge and practical skills acquired in the first year are expanded by conducting research Master's thesis, allowing students to identify, analyze, solve a problem and demonstrate ability to conduct independent scientific work under the supervision and approval of the thesis defense committee. Research topic can be academic in nature, or developed within industry, based on individual interests and/or current research project of lecturers in the Food Technology program. The research can be carried out either in Mae Fah Luang University or abroad.

#### Research focus areas

Research in the fields of Food Technology at School of Agro-Industry, Mae Fah Luang University focus on characterization, technical/optimized process and development/innovation of valued-added agricultural, food and nutritional products with safe, health and trend issues. The research activities focus on the exploration and investigation of compositions, properties, interaction, and alterations of compounds, nutrients, ingredients, microorganisms or enzymes as well as contaminants in agricultural products, food and nutritional products during processing and storage. The research activities also focus on isolation, extraction and purification of functional ingredients from agricultural products to improve the quality of food products, formulate and develop innovative food products which have additional benefits for specific consumer groups.



### Cooperation

In order to further expand and improve successful ongoing research projects as well as to create sustainable synergies, program is engaged in successful and intense cooperation with excellent partners in both national and global academic realm, including; Chiba University, Shinshu University, Japan; Bogor Agricultural University, Indonesia; Universiti Teknologi Mara, Malaysia; Universiti Putra Malaysia, Malaysia; Hohenheim University, Germany; Mendel University in Brno, Czech Republic; and is part of the AIMS programs.

### Occupational fields

- Research groups in national and international universities or institutions
- Research and development, project management, quality assurance, and technical supervision in the following industrial sectors:
  - Food industry and its supplying industries
  - Biotech, Pharmaceutical and health care industry
  - Equipment, process, and packaging technology
  - Private and public research institutes
  - Business consulting

### Reasons to Choose Food Technology, School of Agro-Industry, Mae Fah Luang University

- Small degree programs with an excellent student-teacher ratio
- Degree programs focused on connecting research and teaching
- Students are encouraged to take part in meetings, conferences, and taskforces that provide unparalleled networking opportunities.
- Modern laboratories and practical course rooms with the newest equipment
- Technical centers with pilot plants for research and education provide the opportunity to design and test new technological devices and processing techniques
- Opportunities to take Double Degree Program and gain Double Master Degree with our partners.
- Opportunities to study abroad in the student-exchange program.

### Qualification:

Students with a bachelor's degree in Food Science, Biology, Chemistry, Biochemistry, Nutrition, Biotechnology, Agricultural and related fields with cumulative undergraduate GPA  $\geq 2.5$  and TOEFL score  $\geq 450$  are encouraged to join the program. The program admissions committee makes all admission consideration on case-by-case basis.

Document Required:

- Application affixed with photographs
- A copy of transcript from institutions attended;
- Evidence of English proficiency, TOEFL exam or others
- Statement of purpose
- Letters of recommendation from referee
- A copy of passport

Closing Date for Nominations: May 2017

Late or incomplete applications/documents will not be considered.

Course Title  
Master of Public Health Program in International Health  
(International Program)

Master Degree: Master of Public Health Program in International Health (International Program)

Academic Institution: Khon Kaen University, Khon Kaen

Duration: 15 months

Objective: Continuous and rapid development in sciences and technologies has made the borderless society which has impact on livelihood and health of people from various issue including free trade, migration, information sharing and transportation.

Course Synopsis and Methodology:

Study Tract

Tract 1: Non course work

Thesis	37 credits
Seminar in international health I, II	4 credits (audit)

Tract 2: Course work

Core course	16 credits
Seminar in international health I, II	4 credits (audit)
Elective course	9 credits
Thesis	12 credits

Course content/Study Topic:

Core course: 16 credits

Health research methodology, Biostatistics for health research, International epidemiology, International Health and public health problems in ASEAN, International health service system practicum and writing and presenting research papers.

Seminar courses: 4 credits (Audit)

Seminar international health I, Seminar in international health II

### Elective course

International health service system management, International community health development, International health policy and healthy public policy development, Health and behavior and international health promotion, International environmental health, International occupational health, Public Health, Public health management in international disaster, advanced multivariate analysis, Systematic review and quantitative synthesis.

### Thesis

The student will have about 9 months for their thesis which they could select to conduct their thesis in various setting either in Thailand, or in their home countries. They also could use secondary data sets from the Data Management Statistical Analysis Center (DAMASAAC).

### Qualification:

Applicants must satisfy the following criteria:

1. Posses a Bachelor's Degree for Public Health or equivalent in any related field
2. Proficient in English
3. At least three (3) years of professional experience in Public Health
4. Preferably not over 45 years of age

### Document required:

- Scan of original degree certificate and complete transcript of Bachelor's with authorized English translation (for graduate applicant)
- Scan of original high school transcript record or equivalent with authorized English translation (for undergraduate applicant)
- A recommendation letter from home institution ( IRO Form2)
- A scan of official transcript of your current degree in English language
- A scan of an official consent letter from home institution verifying you as and exchange student
- A scan of certified scholarship award letter with your name mentioned as a grant holder (if applicable)

Closing date: First round: 19 January 2017 – 31 March 2017

Second round 26 May 2017 – 14 June 2017

**Late or incomplete applications/document will not be considered.**

Course Title  
Master of Nursing Science  
(International Program)

Master Degree: Master of Nursing Science (International Program)

Academic Institution: Chiang Mai University, Chiang Mai

Duration: 2 years

Objective: To produce expert nursing scholars skillful in knowledge development, knowledge management and research utilization for better health of population in rapid changing society.

Couse Synopsis and Methodology:

A minimum of 36 credits; including 9 credits of core courses, 12 credits of specialty courses, 3 credits of an elective courses and 12 credits of thesis.

<b>Year 1</b>			
<u>Semester 1</u>		<u>Semester 2</u>	
Core courses	6 credits	Core courses	3 credits
Specialty courses	6 credits	Specialty courses	9 credits
<b>Year 2</b>			
<u>Semester 1</u>		<u>Semester 2</u>	
Elective course	3 credits	Thesis	6 credits
Thesis	6 credits		

Couse Content/Study Topic:

Students can choose an area of concentration on one of the following; nursing administration, adult and gerontological nursing and maternal and child nursing (including breastfeeding)

Qualification:

- 1) Bachelor degree in nursing received from the relevant authorized organization in the applicant's country

- 2) Professional nursing license from relevant authorized organization in the applicant's country
- 3) At least 1 year work experience as a professional nurse
- 4) Minimum English examination score: TOEFL 500 ; IELTS band 5.5 or TEGs 65

**Document required:-**

- 2 copies of the completed application form
- Official transcripts in English with one of its copy
- 2 copies of degree certificates (with English translation if applicable)
- Two full – face photographs, 2.5 cm, less than 3 months old (affixed to the application form)
- 2 copies of passport
- letter of recommendation from 2 referees (send in a sealed envelope with the referee's signature across the seal)
- Official TOEFL/IELTS/TEGs score report

**Closing date for Nominations:** May 15, 2017

**Late or incomplete applications/document will not be considered.**



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Course Title  
Master of Science Program in Medical Informatics  
(International Program)

Master Degree: Master of Science in Medical Informatics (International Program)

Academic Institution: Faculty of Medicine Siriraj Hospital, Mahidol University.

Duration: 2 years

Objectives: This Program aims to educate students in a multidisciplinary manner via collaboration of various departments, such that graduates can appropriately incorporate related science into medical informatics applications. They will also be capable of providing consultations on personalized medicine and be able to liaise and convey medical knowledge to layperson, be skilled in conducting research and systematically analyzing research data, have morality and ethics, both academically and professionally.

Course content/Study Topic:

Elementary Courses

SIRE 507 Fundamental Computer Science for Biologist

1(1-0-2)

SIRE 508 Fundamental Genetics for Computer Scientist

1(1-0-2)

Required Courses

SIRE 503 Medical Bioinformatics

3(2-2-5)

SIRE 504 Programming in Bioinformatics

3(2-2-5)

SIRE 505 Medical Genetics

2(2-0-4)

SIRE 506 Design and Analysis in Genetics Studies of Human Diseases

3(2-2-5)

SIRE 509 Seminar in Medical Bioinformatics I

1(1-0-2)

SIRE 510 Seminar in Medical Bioinformatics II

1(1-0-2)

SIRE 518 Generic Skills in Science Research

1(1-0-2)

Elective Courses

SIID 502 Personalized Medicine

3(1-4-4)

SIAN 506 Human Genetics

2(2-0-4)

SIBC 603 Biochemistry of Diseases

2(2-0-4)

SIBC 604 Statistics of Medical Genetics

1(1-0-2)

SIIM 612 Diagnostic Immunology

3(2-2-5)

SIIM 618 Molecular Biology Techniques 3	3(2-2-5)
ITCS 503 Design and Analysis of Algorithms	3(3-0-6)
ITCS 628 Data Mining and Knowledge Discovery	3(3-0-6)
ITCS 654 Parallel Computation	3(3-0-6)
GRID 521 Research Ethics	1(1-0-2)
Thesis SIRE 698 Thesis 12(0-36-0)	
* These may be changed in case of curriculum revision	

#### Qualification:

1. Graduated in or undertaking the final semester of a Bachelor's degree in Biology, biochemistry, microbiology, pharmaceutical Science, computer science, or another relevant field, from an academic institution recognized by Thailand Higher Education Commission
2. Student should receive a cumulative GPA of at least 2.050.
3. Have a TOEFL ITP score of at least 480, TOEFL Internet-based score of 54 or IELTS score of 5.

#### Document Required:

Prepare the following required documents to submit via online admission system or post:

1. Complete an Online Application at [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th) which comprised with
  - Form A: Application Form
  - Form B: Background and Proposed Field of Study
  - Form C: Recommendation Forms (directly submitted by at least 2 referees)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photon (Passport size)
5. Two copies of Passport
6. Two copies of English Certificate (TOEFL/IELTS), For Master Program – TOEFL ITP score of at least 480, TOEFL Internet-based score of 54 or IELTS score of 5.

Note: Only accept TOEFL ITP score from examination center arranged by Faculty of Graduate Studies, Mahidol university.

– TOEFL ITP taken from other domestic and overseas institutes are invalid.

– The test date must be within previous 2 years before application date.

– Detail of English Competency Standard for Admission:

<http://www.grad.mahidol.ac.th/en/current-students/language-center.php>

7. Two copies of Curriculum Vitae.
8. Two copies of Statement of Purposes and Career Goals.
9. Two copies of Current bank statement/Scholarship letter (if any).
10. Two copies of Concept paper/research proposal/topic interest (recommended for all applicants)
11. Two copies of additional documents maybe requested by each program (such letter of work experience/professional license/related certificates and awards). Submitting documents via online admission system. All documents must be in pdf format (maximum size 2 MB). Recent photograph must be in jpeg format only (maximum size 2 MB).

**Closing date: 30 April 2017**

**Late or incomplete applications/document will not be considered.**

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**Course content/Study Topics:**

Core course: 12 credits

Elective course: 12 credits

Thesis: 12 credits

Total: 36 credits

Core course: 12 credits

- SHSH548 Health Social Science Theories
- SHSH549 Application of Health Social Science knowledge
- SHSH553 Social Science Research in Health
- SHSH695 Seminar in Health Social Science

Elective course: 12 credits

- SHSH554 Social Science of Reproductive Health and Population Policy
- SHSH555 Globalization and Health
- SHSH556 Qualitative and Quantitative Data Analysis
- SHSH557 Gender, Sexuality and Health
- SHSH558 Principles of Social Determinant of Health, Health Rights and Equity
- SHSH559 Migration and International Health
- SHSH594 Health Sociology
- SHSH595 Medical Anthropology
- SHSH596 Health Psychology
- SHSH598 Health Economics
- SHSH603 Globalization and Emerging and Re-emerging Diseases
- SHSH604 Evaluation Research in Health
- SHSH605 Health Policy and Health System Research
- SHSH613 Social Inequity and Women's Health
- SHSH693 Social Sciences in tropical Diseases
- SHSH694 Social Psychology and Positive Psychology Seminar in Health and Related  
Current Issues

Thesis: 12 credits

- SHSH698 Thesis

**Qualification:**

1. Receive bachelor's degree in social sciences, health sciences and other relates fields.
2. Have GPS 30. Or higher.
3. Good command in English (reading, writing and speaking)
4. Have a IELTS score of at least 3, TOEFL Internet-based score of 54 TOEFL ITP\* score of at least 400

**Document Required:** Prepare the following required documents to submit via online admission system or post:

1. Complete an Online Application at [www.grad.mahodol.ac.th](http://www.grad.mahodol.ac.th) which comprised with  
Form A: Application Form  
Form B: Background and Proposed Field of Study  
Form C: Recommendation Forms (directly submitted by at least 2 referees)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photon (Passport size)
5. Two copies of Passport
6. Two copies of English Certificate

**Closing date: 30<sup>th</sup> April 2017**

**Late or incomplete applications/document will not be considered.**

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Course Title  
Master of Science Program in Immunology  
(International Program)

Master Degree: Master of Science in Immunology (International Program)

Academic Institution: Faculty of Medicine Siriraj Hospital, Mahidol University.

Duration: 2 years

Objectives: The diversity of experts across various disciplines has uniquely strengthened and enriched this program. It adds more dimensions to the students' learning experiences and nurtures the abilities and skills required to solve complex scientific problems.

Course Synopsis and Methodology: Program curriculum structure for the master's degree

Required Courses	18	credits
Elective Courses no less than	6	credits
Thesis	12	credits
<u>Total</u>	36	credits

Course content/Study Topic:

Required Courses	
*study only 1 course	
GRID603 Biostatistics*	
SCID 516 Biostatistics *	3(3-0-6)
SCID 500 Cell and Molecular Biology	3(3-0-6)
SCMI 602 Advanced Immunology	3(3-0-6)
SIIM 501 Immunology	3(3-0-6)
SIIM 611 Molecular Immunology	2(2-0-4)
SIIM 612 Diagnostic Immunology	(2-0-4)
SIIM 619 Immunology Seminar I	3(2-2-5)
	(2-0-4)

#### Elective Courses

SIIM 614 Immunity and Infection	2(2-0-4)
SIIM 615 Molecular Biochemistry of Cancer	1(1-0-2)
SIIM 616 Stem Cell Science	3(3-0-6)
SIIM 617 Advanced Flow Cytometry	2(1-1-2)
SIIM 618 Molecular Biology Techniques	3(2-2-0)
Thesis SIIM 698 Thesis 12(0-36-0)* These may be changed in case of curriculum revision	

#### Qualification:

1. Student must hold a bachelor's Degree in Science or an equivalent degree in Pharmacy, Dentistry, Veterinary Medicine, Medicine or those related to Immunology.
2. Receive a cumulative GPA of at least 2.50.
3. Have a TOELF ITP score of at least 480, TOEFL Internet-based score of 54 or IELTS score of 5.

#### Document Required:

Prepare the following required documents to submit via online admission system or post:

1. Complete an Online Application at [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th) which comprised with  
Form A: Application Form  
Form B: Background and Proposed Field of Study  
Form C: Recommendation Forms (directly submitted by at least 2 referees)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photon (Passport size)
5. Two copies of Passport
6. Two copies of English Certificate (TOEFL/IELTS), For Master Program – TOELF ITP score of at least 480, TOEFL Internet-based score of 54 or IELTS score of 5.

Note: Only accept TOEFL ITP score from examination center arranged by Faculty of Graduate Studies, Mahidol university.

– TOEFL ITP taken from other domestic and overseas institutes are invalid.

– The test date must be within previous 2 years before application date.

– Detail of English Competency Standard for Admission:

<http://www.grad.mahidol.ac.th/en/current-students/language-center.php>

7. Two copies of Curriculum Vitae.
8. Two copies of Statement of Purposes and Career Goals.
9. Two copies of Current bank statement/Scholarship letter (if any).
10. Two copies of Concept paper/research proposal (recommended for all applicants)
11. Two copies of additional documents maybe requested by each program (such letter of work experience/professional license/related certificates and awards). Submitting documents via online admission system. All documents must be in pdf format (maximum size 2 MB). Recent photograph must be in jpeg format only (maximum size 2 MB).

Closing date: 30 April 2017

Late or incomplete applications/document will not be considered.





Course Title  
Master of Science in Health Systems Management  
(International Program)

Master Degree: Master of Health Systems management (International Program)

Academic Institution: College of Health Systems Management, Naresuan University.

Duration: 24 months (2 academic years)

**Objectives:**

The multidisciplinary master program Health Systems Management is designed to provide student with the skill and knowledge that are needed to understand the complexities of health system. It is also aimed enable students to develop into knowledgeable researcher, policy makers or manager in health care sector. Successful students will have the expertise to analyze and weigh up complex problems from various perspectives. They can apply their knowledge derive from various fields when solving problems. They know their way in leading and managing their complex systems to be better responsive and improve equity and level of health of their population effectively and defiantly.

**Course Synopsis and Methodology:**

Health systems management (HSM) is a unique multidisciplinary master program. It is specially designed students who are interested in fully understanding the context of health and health system issue and for those who wish to become health managers within health care organizations. Explore the complexities of health systems from different disciplinary perspectives. Scientific theories are closely intertwined with practical knowledge. The program is specially designed to give students an overview of the Thai health system and its application in a global context. Explore the complexities of health systems all over the world and be able to understand, analyze and deal with the current issue. Furthermore, students develop advanced skills for designing, carrying out and reporting academic research as well as set of professional competencies as leadership skills. Work with students and faculty from around the world to solve case studies and acquire valuable knowledge on health systems management.

The program has a clear international orientation. Health systems worldwide are facing various challenging issues to become more complex. Leadership and good management are vital to solving these increasing difficult issues in the health sector. The Master of Science in Health Systems Management fully equip you to live up with these challenges. During master you are trained to match knowledge from various academic fields with professional skills and come to a solution for just about any problem that you are encounter during your career as a health management professional. In this entire process you never lose focus on patient demands and needs.

The program is international in scope and participation. All courses, papers, exams, and the master thesis are in English. HSM attracts student from all over the world, employs teaching staff from foreign origin, and actively seeks international collaboration with the international universities and academic and professional institutions, both for students and staff exchange.

The master program alternates scientific theory and skills training through lectures, case discussion and projects. NUCHSM is keen for its teaching method of problem-based learning. This makes extensive use of case studies and requires students to participate actively

#### Course content/Study Topic:

Overall, the program amount 36 credits according to the Higher Education Commission System. It is delivered in a modular format, employing a range of learning approaches. The full-time program take two academic years of study. Students who enroll on research tract compulsorily study non-credit research methodology subject and attended seminars every semester and write a master thesis. It is required at least 2 publications published in peered academic journals for completing their graduation. For students who enroll in coursework tract study 6 mandatory subjects and 2 elective subjects and write a master thesis. It is required at least 1 publication published in peered academic journals in order to fulfill their graduation.

Within the HSM program students choose a specific stream, consisting of a pre-selected group of elective courses and a thesis with a theme. The streams are: Health Systems Management and Leadership (HSML); and Health Security, Financing, Management and Leadership (HSFML)

### Qualification:

#### General Qualifications.

- 1) Students are required to have graduated in a Bachelor's degree in Sciences; Technological Sciences or Health Sciences; Social Science, etc. from institutes approve by the Office of the Higher Educational Commission, Ministry of Education.
- 2) Have no record of court-ordered imprisonment except for a wrongdoing by recklessness or misdemeanor.
- 3) No record of dismissal on the grounds of misbehavior from any educational institutes
- 4) Healthy, with no diseases that can interfere with educational obligations
- 5) Other qualifications as specified by the Graduate School, Naresuan University
- 6) If there is some inconsistency between the conditions of No. 1-5 above, the students position will be considered by the Curriculum Committee

#### Specific Qualifications

##### Plan A Type A1

- 1) Students are required to have graduated in a Bachelor's degree or an equal level of education in Technological Sciences, Health Sciences or Social Science etc. from any institutions in Thailand or other countries approved by Ministry of Education with higher GPA than 2.5
- 2) Students who graduated from other fields of study apart from those stated No. 1 are required to be experienced in working or researching on Health Sciences or Social Sciences about health or health system for more than 1 year; or have a published an article in a journal approved by Naresuan University Regulations in the previous 5 years prior to the day of enrolment.
- 3) Student who cannot meet the requirement of No. 1 and No. 2 will be considered by the Curriculum Committee of Health Systems Management
- 4) Student are required to write an article about a relevant research project (no more than 5 pages of A4 paper)
- 5) Other qualifications as specified by Naresuan University Regulations for Graduate 2016: Title 5 Students Requirement (Information will be announced in appendix)

#### Plan A Type A2

- 1) Students are required to have graduated in a Bachelor's degree or an equal level of education in Technological Sciences, Health Sciences or Social Science etc. from any institutions in Thailand or other countries approved by Ministry of Education with higher GPA than 2.5
- 2) Student who graduated from other fields of study apart from those stated in No. 1 will be consider by the Curriculum Committee of Health Systems Management
- 3) Students are required to write an article about relevant research (no more than 5 pages of A4 paper)
- 4) Other qualifications as specific by Naresuan University Regulations for Graduate 2016; Title 5 Students Requirement (Information will be advised in appendix)

#### Document Required:

- 1) Education background document/certificate of degree
- 2) Official closed transcript of record (if you apply for Ph. D study, records of master and bachelor's degrees must be submitted)
- 3) An English proficiency score. Only the score of an English proficiency test obtained from these testing agencies: TOEFL or IELTS is accepted unless English is the official language of the country.
- 4) All applicants are required to submit a valid English test score which is not older than 2 years on the starting date of the admission.
- 5) Two official recommendation letters written in the letter head of referee's university or organization.
- 6) The statement of purpose, which includes field and level of study that you would like to apply for.
- 7) Concept paper on your proposed thesis study. (No longer than 3 pages of A4)
- 8) Photocopy of passport (bearer's details) or ID card.
- 9) A CV show you experiences on health management and/or research which includes a list of publications and affixed with a recent photo; and
- 10) A less than 6 month medical examination result.

Closing date: 31 May 2017

Late or incomplete applications/document will not be considered.





Thailand International Cooperation Agency  
Ministry of Foreign Affairs of Thailand

GUIDELINES  
for Thailand International Postgraduate Programme (TIPP)

1. Qualifications

- 1.1 Candidates must be nominated by central government agencies in a country from the TIPP eligible countries/territories list. (See "List of Eligible Countries/Territories")
- 1.2 Candidates should be an officer or agent (preferably from government agencies) currently working in the area related to the course provided.
- 1.3 Candidates must have bachelor degree and/or professional experience related field or related to graduate degree.
- 1.4 Candidates must have a good command of English.
- 1.5 Candidates whose English is not the first language/Bachelor's degree was not taught in English/who is from a country other than New Zealand, USA, the United Kingdom, Australia, Canada has to pass and English Language proficiency test according to criteria announced by University regulations.
- 1.6 It is recommended that candidates be less than 50 years of age.
- 1.7 Candidates must have good physical and mental condition.
- 1.8 TICA reserves the rights to revoke scholarship offered to participants who are pregnant during the period of study or violate rules and regulations.
- 1.9 Other requirement apart from these will be under consideration by the University regulations.



## 2. Procedures for submission of nominations

2.1 Nomination must be made by central government agencies in charge of nomination of national candidates (such as Ministry of Foreign Affairs) or by relevant central government agencies for which the nominated candidates currently work. Nomination must be in line with relevant rules and regulations of the nominating countries/territories.

Each eligible country/territory can nominate up to five (5) candidates per academic program.

2.2 The nomination must be supported by the following four (5) documents;

- Application form
- Medical Report
- Transcript
- Recommendation letters
- English score (e.g. TOEFL/IELTS)

One original with two (2) copies of all forms duly filled out, counter-signed and stamped by the authorized person must be submitted.

2.3 The nomination must be submitted to TICA through the Royal Thai Embassy/ Permanent Mission of Thailand to the United Nations/ Royal Thai Consulate-General accredited to eligible countries/territories. (See "List of Eligible Countries/Territories")

2.4 Originals of nomination documents, duly filled out, must be received no later than a specified deadline of each academic program.

2.5 Application form must be filled in typed-block letter. Soft file of the Application Form and Medical Report Form can be found at  
<http://www.tica.thaigov.net/main/contents/files/information-20161217-152430-795372.pdf>

### 3. Selection of candidates

3.1 In considering applications, particular attention shall be paid to the candidates' academic background, their current position in the service of their Government, and practical use they expect to make of the knowledge and experience gained from graduate on the return to their Government positions.

3.2 Selection of Candidates is also based on geographical distribution and gender balance, unless priority is set for particular country/ group of countries.

### 4. Condition for Attendance

4.1 Awardees are required to study full time and not to change the program topic/ study plan

4.2 Any part time employment is not allowed.

4.3 Awardees are not allowed to bring any family members to stay with them during study.

### 5. Travel and financial arrangements

5.1 Successful candidates will be offered an award which covers:

- Return economy class airfare
- Accommodation allowance
- Living allowance
- Book allowance
- Thesis allowance
- Settlement allowance
- Insurance
- Airport meeting service

## 5.2 Regulations on travel

### - Return economy class airfare

- International travel - Return economy class air ticket will be provided via the most direct and most economical route from the international airport at participant's respective country/territory to the Suvarnabhumi International Airport, Bangkok - Thailand. The award does not cover domestic travel cost in participant's respective country.

Transit destination will be arranged according to a need for visa application to Thailand and/or on the most direct and most economical route basis.

All booking and change to the booking, including a setting of date of arrival and departure, must be done by TICA only. Ticket will be issued in electronic form (e-ticket) only.

Baggage allowance quota is in line with the airlines' policy. Any purchase for extra baggage allowance is not covered by the award.

- Domestic travel - will be provided via the most economical route from the Suvarnabhumi International Airport, Thailand to the airport where the university located.

- Insurance - Group Accident and Hospitalization Insurance during the period of study in Thailand will be provided. Costs of pre-existing illnesses, dental treatment, brain disease, mental illness, pregnancy and glasses are NOT covered. Awardees are advised to obtain their own travel insurance which is fully covered for any costs arising from loss or theft of personal belongings.

- Airport meeting service - Transfer to and from airport will be provided to awardees. TICA will coordinate directly with the limousine service, upon arrival at the Suvarnabhumi International Airport please proceed to the AOT Limousine Customer Relations counter and hand the instruction of scholarship award to prepare for the airport transfer. A taxi fare paid by awardees cannot be reimbursed.

- Visa arrangement - Awardees will be responsible for obtaining "Non - F" visa prior to their travel to Thailand. TICA will provide facilitation to participants who require visa application i.e. liaising with the Royal Thai Embassy/ Consulate and advising on appropriate procedure and necessary documents for visa application.

Awardees must cover all costs arising from visa application i.e. visa fee, travel cost to the Royal Thai Embassy/ Consulate, postal fee (in case visa application is made by post,) transit visa fee (in case participants needs to apply for visa to Thailand at a transit country). The visa fee can be reimbursed upon presenting an original receipt of the fee but not exceed 2,000 THB.

Awardees must not bring their family members with them during their scholarship program. Awardees in the scholarship program cannot be used as reference for visa application to Thailand of his/her family member.

6. Contact

For more information, please contact;

Bureau of International Cooperation on Human Resource Development

Thailand International Cooperation Agency (TICA)

Government Complex, Building B (South Zone), 8<sup>th</sup> Floor,

Chaengwattana Rd. Laksi District,

Bangkok 10210

THAILAND

Website : [www.tica.thaigov.net](http://www.tica.thaigov.net)

Email : [pattara\\_pattinson@hotmail.com](mailto:pattara_pattinson@hotmail.com)

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Thailand International Development Cooperation Agency (TICA)  
Ministry of Foreign Affairs

APPLICATION FORM  
for Thailand International Postgraduate Programme: TIPP

FOR OFFICIAL USE ONLY

Reference No. ....  
Received: .....  
Checked: .....

INSTRUCTIONS

This application form is composed of five parts. Part A to part E should be completed in triplicate, part A to part D should be completed by the candidate and part E by the government authority. All application form must be filled in typewritten form. Each question must be answered clearly and completely. Detailed answers are required in order to make the most appropriate arrangements. Official authority of the nominating Government will then forward three copies of original of all certified application forms to the Thailand International Cooperation Agency (TICA), the Government Complex, Building B (South Zone), 8<sup>th</sup> Floor, Chaengwatta Road, Laksi District, Bangkok 10210, THAILAND, through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate - General accredited to eligible territories. The nominee is required to attach medical report or health status certification. No consideration will be given to the late submissions or incomplete applications/documents.

(Please attach  
photograph here)

Course Name: .....

A. PERSONAL HISTORY

Title	Family name (as shown in passport and kindly attach the copy of your passport, information will be used for travel arrangement)	Middle name	Given name	Gender
<input type="radio"/> Mr. <input type="radio"/> Mrs. <input type="radio"/> Ms. <input type="radio"/> .....				<input type="radio"/> Male <input type="radio"/> Female
City and country of birth	Nationality	Date of birth (DD/MM/YY)	Age	Marital Status
				Religion
Work address (Please complete this section as clear as possible, information will be used for travel arrangements.)		Home address (Please complete this section as clear as possible, information will be used for travel arrangements.)		
.....		.....		
.....		.....		
.....		.....		
Fax No: (Country Code / Area Code/ Number)	Telephone No :	Telephone No :		
.....	.....	Fax No : .....		
.....	.....	International Airport/City for departure :		
Update email address:				
Name and address of person to be notified in case of emergency :				
.....				
Telephone No : .....				
.....Relationship of this person to you :				



Languages:		READ			WRITE			SPEAK		
		Excellent	Good	Fair	Excellent	Good	Fair	Excellent	Good	Fair
Mother tongue: .....										
English										
Others:0.....										
English Proficiency Test (please attach) (only a candidate for a degree course)					<input type="checkbox"/> TOEFL Score .....			<input type="checkbox"/> IELTS Score .....		
					<input type="checkbox"/> Other (specify) .....					
<b>EDUCATION RECORD</b>										
Education Institution	City / Country	Years Attended		Degrees, Diplomas and Certificates	Special fields of study					
		From	To							
Have you ever been trained/studied in Thailand? If yes, what course, where and for how long?										
... <input type="checkbox"/> No										
... <input type="checkbox"/> Yes, please specify.....										
Please give a list of relevant publications/researches (do not attach details)										
.....										
.....										
.....										

**B. EMPLOYMENT RECORD:** It is important to give complete information. For each post you have occupied, give details of your duties and responsibilities.

Present or most recent post :	Description of your work, including your personal responsibilities
Dates from ..... to .....	
Title of your post:	
Name of organisation:	
Type of organisation:	
Official address:	Description of your work, including your personal responsibilities
Previous post :	
Dates from ..... to .....	
Title of your post:	
Name of organisation:	
Type of organisation:	Description of your work, including your personal responsibilities
Official address:	

**C. REFERENCES:** Please attach the recommendation letters from three (3) persons acquainted with your academic and professional experiences.



#### D. EXPECTATIONS

Please describe the practical use you will make of this training/study on your return home in relation to the responsibilities you expect to assume and the conditions existing in your country in the field of your training. (Give the attached paper, if necessary)

I certify that my statements in answer to the foregoing questions are true, complete and correct.

If accepted for a scholarship award, I undertake to:-

- carry out such instructions and abide by such conditions as stipulated by both the nominating government and the host government in respect of this program of scholarship;
- follow the program of scholarship, and abide by the rules of the University and Thailand International Cooperation Agency in which I undertake the scholarship;
- refrain from engaging in political activities, or any form of employment for profit or gain;
- study full time, make academic progress and submit progress reports to Thailand International Cooperation Agency;
- not bring any member of my family to stay with me during the course;
- return to my home country promptly upon the completion of my program of scholarship.

I also fully understand that if I am granted a scholarship award and violate Thailand International Cooperation Agency's rules and regulations, I may be required to return part or all of the scholarship paid, depending on the severity of the violation, without any appeal.

Signature of applicant: .....

Printed name: .....

Date: .....

**E. GOVERNMENT AUTHORISATION:** To be completed by the central government agencies in charge of nomination of the candidates (see guideline for TIPP for detailed information on nomination.)

I certify that, to the best of my knowledge,

- all information supplied by the nominee is complete and correct;
- the nominee has adequate knowledge and experience in related fields and has adequate English proficiency for the purpose of the scholarship in Thailand.

On return from the scholarship, the nominee will be employed in the following position:

Title of post .....

Duties and responsibilities .....

(Official stamp)

Signature of responsible Government official

Title: .....

Organisation: .....

Official address: .....

Date: .....

## MEDICAL REPORT

Name of Nominee .....

Country.....

Age: .....

Gender: .....

Physical Examination (To be filled in by physician)

Height..... Cms. Weight.....kgs. Blood Pressure..... mm.Hg. Pulse...../min.  
 Vision Right..... Left..... Eyes..... With glasses / Without glasses

Check each item in appropriate column

Items	Normal	Abnormal	Additional Comments
General	<input type="radio"/>	<input type="radio"/>	.....
Skin, Scalp	<input type="radio"/>	<input type="radio"/>	.....
Lymph nodes	<input type="radio"/>	<input type="radio"/>	.....
Eyes	<input type="radio"/>	<input type="radio"/>	.....
Ears	<input type="radio"/>	<input type="radio"/>	.....
Orthoscopic Exam			.....
Nose	<input type="radio"/>	<input type="radio"/>	.....
Pharynx & tonsils	<input type="radio"/>	<input type="radio"/>	.....
Teeth	<input type="radio"/>	<input type="radio"/>	.....
Thyroid gland	<input type="radio"/>	<input type="radio"/>	.....
Lungs	<input type="radio"/>	<input type="radio"/>	.....
Heart	<input type="radio"/>	<input type="radio"/>	.....
Abdomen	<input type="radio"/>	<input type="radio"/>	.....
Liver	<input type="radio"/>	<input type="radio"/>	.....
Spleen	<input type="radio"/>	<input type="radio"/>	.....
Hernia	<input type="radio"/>	<input type="radio"/>	.....
External genitalia	<input type="radio"/>	<input type="radio"/>	.....
Rectal exam	<input type="radio"/>	<input type="radio"/>	.....
Vertebrae	<input type="radio"/>	<input type="radio"/>	.....
Locomotor	<input type="radio"/>	<input type="radio"/>	.....
Reflejes	<input type="radio"/>	<input type="radio"/>	.....
Mental Health status	<input type="radio"/>	<input type="radio"/>	.....

# LABORATORY EXAMINATIONS

Blood group ..... Blood film for malaria ..... Hb ..... gm%

WBC ..... Cells/cu.mm.

Differential PMN ..... % Lymph ..... % Mono ..... % Eos ..... %  
 Baso ..... % Band ..... % Blast ..... %

Sugar ..... Colour ..... Sp. Gr ..... pH .....

Alb ..... Blood ..... Ketones ..... Bile .....

Micro: WBC ..... /HPF., RBC ..... /HPF., Epithelial ..... /HPF.

Casts ..... /HPD., Others .....

Stool examination for parasite & Ova .....

Chest X - Ray report .....

Urine pregnancy test .....

Is the person examined at present in good health and able to work full time?  
 .....

Is the nominee able physically and mentally to carry on intensive study away from home?  
 .....

Is the nominee free from infectious diseases (such as tuberculosis, leprosy, syphilis and filariasis) and other conditions (such as psychosis and drug addiction) which could present risks for anyone during the scholarship period?  
 .....

(For female nominee) Is the person examined pregnant?  
 .....

Does the nominee have any condition or defect which might require treatment during the scholarship period?  
 .....

I certify that the applicant is medically fit to undertake the scholarship in Thailand.

Physician signature (with stamp) ..... M.D.

(.....)

Full name and address of Examining physician (printed)

Place and Date .....

Telephone: .....

(printed)

e-mail: .....

App

((تعهد))

اني الموقع في ادناه اتعهد بعدم الحكم علي بعقوبة السجن المؤبد  
او المؤقت والحبس لمدة تزيد على سنة وبخلافه اتحمل كافة  
التبعات القانونية .

مع الاحترام

التوقيع:

الاسم:

التاريخ: