ප්‍රධාන ලේකම් කාර්යාලය - දකුණු පළාත
பிரதான செயலாளர் அலுவலகம் - தென் மாகாணம்
CHIEF SECRETARY'S OFFICE - SOUTHERN PROVINCE

මගේ අංකය எனது இல. My No.	CSS/2/8/1/Thailand	ඔබේ අංකය உமது இல. Your No.		දිනය திகதி Date	15.03.2017

All Secretaries,
Southern Province.

The Thailand International Postgraduate Programme (TIPP)

This has reference to the letters of Director General, Department of External Resources, Numbered TA&UN/TH/L/67/72/73/74/84/91/92/93/96 and Dated 01.03.2017 on the above subject. (Copy of the letter attached herewith for your easy reference.)

02. According to above letter, they have mentioned that the government of Thailand has invited nominations from eligible government officials in Sri Lanka for the following Master programmes for the academic years 2017/2018.

Training Programme	***ERD Closing Date***	***Chief Secretary's Office Closing Date***
Master of Science Programme in Environmental Management Technology	*24th March 2017*	*20th March 2017*
Master of Science Programme in Bioscience for Sustainable Agriculture	*20th June 2017*	*16th June 2017*
Master of Science Programme in Agriculture	*23rd August 2017*	*21st August 2017*
Master of Science Programme in Renewable Energy	*22nd May 2017*	*17th May 2017*
Master of Science Programme in Food Safety & Quality Management	*20th March 2017*	*16th March 2017*
Master of Science Programme in Disaster Management	*20th March 2017*	*16th March 2017*
Master of Science/ Master of Engineering (Energy Technology and Management)	*19th May 2017*	*16th May 2017*
Master of Science Programme in Food Technology	*19th May 2017*	*16th May 2017*
Master of Science Programme in Earth System Science	*09th June 2017*	*06th June 2017*

ප්‍රධාන ලේකම් பிரதான செயலாளர் Chief Secretary 091 2232343 | කාර්යාලය காரியாலயம் Office 091 2234052 091 2226118 | ෆැක්ස් பெக்ஸ் Fax 091 2246299 | විද්‍යුත් තැපෑල மின் அஞ்சல் E-mail chiefsec1@sltnet.lk | වෙබ් අඩවිය இ தளம் Web site www.cs.sp.gov.lk
ප්‍රධාන ලේකම් කාර්යාලය, එස්.එච්. දහනායක මාවත, ගාල්ල. Chief Secretary's Office, S.H. Dahanayaka Mawatha, Galle.
பிரதான செயலாளர் காரியாலயம், எஸ்.எச்.தஹநாயக மாவத்தை, காலி.

03. Therefore, you are kindly requested to submit ***suitable nominations (in 5 sets)*** *with the relevant documents according to the guidelines given by the ERD & course details, enabling me to forward them to the ERD. For further details please visit Chief Secretary Office – Southern Province website at www.cs.sp.gov.lk*

04. ***Please be informed that all the officers who go for overseas training should submit a study report to the Chief Secretary (SP) with copies to the ERD and the Hon. Governor (SP) within a month after returning to the country.***

05. Please be inform head of the Department under your purview in this regard.

Gamini Weerawickrama,
Deputy Chief Secretary (Personnel and Training),
For chief Secretary,
Southern Province.

විදේශ සම්පත් දෙපාර්තමේන්තුව
வெளிநாட்டு வளங்கள் திணைக்களம்
Department of External Resources

ජාතික ප්‍රතිපත්ති හා ආර්ථික කටයුතු අමාත්‍යාංශය
මහලේකම් කාර්යාලය (3 වැනි මහල), තැ.පෙ. 277, කොළඹ 00100, ශ්‍රී ලංකාව
தேசிய கொள்கைகள் மற்றும் பொருளாதார அலுவல்கள் அமைச்சு,
செயலகம் (3 ஆம் மாடி), த. பெ. இல. 277, கொழும்பு 00100, இலங்கை
Ministry of National Policies and Economic Affairs
The Secretariat (3rd Floor), P.O. Box 277, Colombo 00100, Sri Lanka

Web Site:www.erd.gov.lk e-mail: info@erd.gov.lk

මගේ අංකය / எனது இல. / My No } TA&UN/TH/L/67/72/73/74/84/91/92/93/96

ඔබේ අංකය / உமது இல / Your No.. }

දිනය / திகதி / Date. } 01st March 2017

Secretary to the President
Presidential Secretariat

Secretary to the Prime Minister
Prime Minister's Office

Secretary to the Cabinet
Office of the Cabinet

Secretaries / All Ministries

Dear Sir /Madam

Attn: Officer- in-charge of Foreign Training

The Thailand International Postgraduate Programme (TIPP)

The Government of Thailand has invited nominations from eligible Government Officials in Sri Lanka for the following Master programmes for the academic years 2017/2018 in Thailand. The guidelines, course details are enclosed for your information please.

Training Programme	ERD Closing Date
Master of Science Programme in Environmental Management Technology	**24th March 2017**
Master of Science Programme in Bioscience for Sustainable Agriculture	**20th June 2017**
Master of Science Programme in Agriculture	**23rd August 2017**
Master of Science Programme in Renewable Energy	**22nd May 2017**
Master of Science Programme in Food Safety & Quality Management	**20th March 2017**
Master of Science Programme in Disaster Management	**22nd May 2017**
Master of Science / Master of Engineering (Energy Technology and Management)	**19th May 2017**

අධ්‍යක්ෂ ජනරාල් / பணிப்பாளர் நாயகம் } 94-11-2484693
කාර්යාලය / அலுவலகம் } 94-11-2484500, 94-11-2484600
ෆැක්ස් අංකය / தொலை நகல் } 94-11-2447633

Master of Science Programme in Food Technology	19th May 2017
Master of Science Programme in Earth System Science	09th June 2017

You are kindly requested to submit nominations along with the following documents (in four sets) in line with the required qualifications mentioned in the attached document and the "Guidelines" submitted by TICA.

1. Dully filled Application Form in **typed-block letter** form along with certified copies of the certificates of Academic and Professional Qualifications (**in four sets**)
2. The completed Medical Report
3. A copy of the passport (names written in the forms must be the same as appear in the passport)
4. Duly filled ERD form No: 2 "Essential Information of the nominee" (Original Copy only).
5. Other required documents specified in the course details

The guidelines, Course details, Application Form, Medical Form and the ERD Form can be downloaded from (www.erd.gov.lk) or http://www.tica.thaigov.net/main/contents/files/information-20161217-152430-795372.pdf). The Government clearance to leave the country to participate in this programme has to be obtained only after the offer is granted to the nominee.

Your early response in this regard is highly appreciated.

Yours faithfully

Noor Rizna Anees
Additional Director General
for Director General

Copy to :

Chief Secretaries, All Provincial Councils - Please submit nominations through the relevant Provincial Council

Course Title

Master of Science Program in Environmental Management Technology
(International Program)

Master Degree: Master of Science Program in Environmental Management Technology (International Program)

Academic Institution: Faculty of Technology and Environmental, Prince of Songkla University, Phuket campus

Duration: Two (2) years academic years Master Course will start on August 2017.

Objectives: To emphasizes on producing graduates with knowledge and research skills for applying technological knowledge for protecting, problem-solving and managing natural resources and environment sustainably especially for monitoring and solving the climate change problem.

Course Synopsis/Methodology

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

Course Contents/Studies Topic

The students must complete a minimum requirement of 36 credits to graduate. The course program is divided into 2 options:

Subject	Options (Credits)	
	A1	**A2**
Compulsory Course	-	12
Selected Topics	-	6
Dissertation for M.Sc.	36	18
Total	**36**	**36**

Option A1: Thesis for M.Sc. 36 credits

991-301	Thesis for M.Sc.	36
991-105	Seminar on Environmental Management Technology	S/U

Option A2: Courses and thesis 36 credits

991-101	Research Methodology	3
102-991	Integrated Environmental Problem Solving	3
991-103	Technology for Environmental Management	3
991-104	Environmental Systems	3
991-105	Seminar on Environmental Management Technology	S/U
991-XXX	Selected Topics	6
991-301	Thesis for M.Sc.	18

Selected Topics

Code	Subject	Credit
I.	**Environmental Technology and Management Module**	
991-541	Environmental Pollution: Prevention and Management	3(3-0-6)
991-542	Advanced Pollution Treatment Technology	3(3-0-6)
991-543	Environmental Chemistry and Ecotoxicology	3(3-0-6)
991-544	Mathematical Modelling on Environmental Applications	3(3-0-6)
991-551	Environmental Risk Assessment and Management	3(3-0-6)
991-552	Life Cycle Assessment of Products	3(3-0-6)
991-553	Climate Change and Environmental Management	3(3-0-6)
991-554	Green City	3(3-0-6)
991-555	Urban Environmental Management	3(3-0-6)

991-556	Decision Support System for Environmental Management	3(3-0-6)
II.	**Integrated Technology and Biological Environment Module**	
991-561	Integrated Coastal Zone Management	3(3-0-6)
991-562	Marine and Coastal Protected Areas	3(3-0-6)
III.	**Environmental Geoinformatics Technology and Modeling Module**	
991-531	Advance Remote Sensing	3(3-0-6)
991-532	Geographic Information System	3(3-0-6)
991-533	Geoinformatics and Risk Management	3(3-0-6)
991-534	Spatial Analysis in Environmental Problem	)5-2-2(3
IV.	**Sustainable Tourism and Socio-environment Module**	
991-571	Sustainable Tourism Product Development and Management	3(3-0-6)
991-572	Policy Planning and Participatory Approach	3(3-0-6)
991-573	Technology for Sustainable Tourism	3(3-0-6)
V.	**Special study and special topic**	
991-506	Special Study	3(0-0-9)
991-507	Special Topics I	3(3-0-6)
991-508	Special Topics II	3(3-0-6)

Qualification:

This program is opened to applicants who have a degree in Engineering or Science.

Note: The applicants should have required English score;

TOEFL score of at least 500,

TOEFL computer-based score of 173 or IELTS score of 5.5

Requirement for Graduation

1. Complete all course requirements of the program.
2. Satisfy the English proficiency requirement.
3. Have at least one article published in ISI journals
4. Complete a thesis of original research work and successfully defend it.
5. Have satisfied one of the following English proficiency requirements: TOEFL score of at least 500, TOEFL computer-based score of 173 or IELTS score of 5.5

Document Required:

1. Three (3) copies of the TICA Application Form affixed with colored photographs.
2. Two (2) letters of recommendation or references and two (2) copies of each.
3. Educational certificates and two (2) copies of each.
4. Academic transcripts (mark sheets) of studies in English and two (2) copies of each.
5. English language certificate e.g. TOEFL, IELTS and its two (2) copies.
6. Three (3) copies of Personal Identity Card or Official Staff Card.
7. Document to certify change of name or surname and/or marital status (if any).
8. Recommendation letter form advisor or supervisor.
9. Concept paper of research interest
8. Other supporting document.

Closing Date for Nominations: March 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 Moccecular 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)
	Total	**10 credits**

Second Semester

715505 Seminar 2		1(1-0-2)
715xxx Elective Course		3(x-x-x)
715xxx Elective Course		3(x-x-x)
	Total	**7 credits**

The Second year

First Semester

715506 Seminar 3		1(1-0-2)
715xxx Elective Course		3(x-x-x)
715599 Thesis		6 credits
	Total	**10 credits**

Second Semester

715xxx Elective Course		3(x-x-x)
715599 Thesis		6 credits
	Total	**9 credits**

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 Agriculture

Master Degree: Master of Science Program in Agriculture

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

Duration: 2 years

Objective: .

Mater of Science Program in Agriculture aims to produce graduates with the ability to conduct the research, apply new and emerging scientific findings, technologies an dphilosophy 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.

Couse 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)

Couse 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://gs.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 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 n renewable energy fields systemically.
3. To be full of merit, ethics, and continuously inquiditive.

Couse Synopsis and Methodology:

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

Couse 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)
Total	**9 credit**

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 Program in Food Safety and Quality Management

(International Program)

Master Degree: Master of Science Program in Food Safety and Quality Management (International Program)

Academic Institution: Faculty of Technology and Graduate School, Khon Kaen University, Khon Kaen

Duration: 2 years

Objective: .

This program will prepare food technologists who can apply fundamental scientific principles in addressing practical food industry situations, gain experiences and skills in food science and technology. Students will acquire the capacity, knowledge and skills with international perspective so that they can make a contribution towards the improvement of safety and quality of products and services. This will enhance the competitiveness of Thai products and services in the global and regional market place.

Couse Synopsis and Methodology:

Program Plan:

- Plan A1 (Research plan) is for and applicant who holds a Bachelor's degree in Food Science and Food Technology, Food Engineering or Food Product Development with a Grade Point Average (GPA) of at least 2.75, or has experiences in food industry or any related area. Students will conduct a research for a total of 36 credits and participate in 2 required courses (graduate seminars 1 & 2, non - credit).

- Plan A2 (Research and Coursework plan) is for and applicant who holds a Bachelor's degree in Science of related fields, with a GPA of at least 2.50, or has experiences in food industry or any related area. Students have to enroll of 15 credits.

- Plan B (Independent Study and Coursework plan) is for and applicant who holds a Bachelor's degree in Science or Science of related fields, with a GPA of at least 2.50, or has experiences in food industry or any related area. Students have to enroll in several required and elective courses for 30 credits and conduct an independent study for a total of 6 credits.

Structure of the Curriculum:

To obtain a Master of Science degree in Food Safety and Quality Management, the student must choose to follow Plan A1, Plan A2 or Plan B below, and fulfill their requirements. Each requires a total of 36 credits.

Course	The Number of Credit Hours		
	Plan A1	Plan A2	Plan B
Required Course	2*	14	14
Elective Course	-	7	16
Thesis	36	15	-
Independent Study	-	-	6
Total	36	36	36

* (non - credit) Food Safety and Quality Management Seminar 1 & 2

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.

Study Plan * Non - credit

Course Code	Course Name	The Number of Credits Hours		
		Plan A1	Plan A2	Plan B
Year 1 Semester 1				
677771	Food Safety and Quality Management Research Methodology	-	3	3
677761	Safety Aspects of Food Production	-	3	3
677xxx	Elective (s)	-	5	5
672898	Thesis (Plan A1)	9	-	-
	Total credits for this semester	9	11	11
	Accumulated credits	9	11	11

Course Code	Course Name	The Number of Credits Hours		
		Plan A1	Plan A2	Plan B
Year 1 Semester 2				
677762	Quality Management Systems in Food Industry	-	3	3
677763	Risk Analysis in Food Industry	-	3	3
677xxx	Elective (s)	-	2	5
672891	Food Safety and Quality Management Seminar 1	1*	1	1
672898	Thesis (Plan A1)	9	-	-
	Total credits for this semester	**9(1*)**	**9**	**12**
	Accumulated credits	**18 (1*)**	**20**	**23**
Year 2 Semester 1				
677xxx	Elective (s)	-	-	6
677897/ 677898/ 677899	Thesis (Plan A1 or A2) Independent Study (Plan B)	9	7	3
	Total credits for this semester	**9**	**7**	**9**
	Accumulated credits	**27 (1*)**	**27**	**32**
Year 2 Semester 2				
677892	Food Safety and Quality Management Seminar 2	1*	1	1
677897/ 677898/ 677899	Thesis (Plan A1 or A2) Independent Study (Plan B)	9	9	3
	Total credits for this semester	**9(1*)**	**9**	**4**
	Accumulated credits	**36(2*)**	**36**	**36**

Research Areas

- - Symbiotic systems (Probiotics and prebiotics)
  - Stress response in food pathogens
  - Analysis of chemical hazards in foods
  - Emerging technology in food processing and analysis (DDC, Rheology, Image analysis, Minimal processing technology, Thermal and non-thermal processing)

- Physicochemical and functional properties of food products
- Functional foods (Antioxidants, Dietary fibers, Bioactive peptides, etc.)
- Product development techniques
- Food quality management systems
- Applications of microbiology in food industry
- Risk assessment for food industry

Courses:

1. Required Course

677761 Safety Aspects of Food Production	3 credits
677762 Quality Management Systems in Food Industry	3 credits
677763 Risk Analysis in Food Industry	3 credits
677771 Food Safety and Quality Management Research Methodology	3 credits
677891 Food Safety and Quality Management Seminar 1	1 credits
677892 Food Safety and Quality Management Seminar 2	1 credits

2. Elective Courses

677711 Food Agnatical Techniques in Safety and Quality Aspects	3 credits
677712 Food Toxicology	3 credits
677733 Functional Food Ingredients and Safety Aspects	3 credits
677721 Rapid Analytical Techniques in Food Microbiology	3 credits
677864 International Food Safety Policy and Regulations 1	2 credits
677765 Quality Monitoring, Verification and Improvement in Food Industry	3 credits
677773 Current Topics in Food Safety and Quality Management Systems	2 credits
677774 Logistic and Food Supply Chain Management	3 credits

3. Thesis/Independent Study

677897 Independent Study (Plan B)	6 credits
677898 Thesis (Plan A1)	36 credits
677899 Thesis (Plan A2)	15 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:

Admission Requirement:

1. Holding a Bachelor's degree or equivalent academic credentials, with a minimum undergraduate grade – point average (GPA) of 2.75 (Plan A1) or 2.50 (Plan A2/Plna B). All GPSs are based on a 4.00 scale. The applicant with experience in food industry or any associated area will also be considered.

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, and a minimum score should be as follows:

TOEFL (Paper - based)	475
TOEFL (Computer - based)	152
TOEFL (Internet - based)	52
IELTS	5

An applicant who cannot meet these criteria is required to take KKU English proficiency test and should consult the executive graduate program committee.

Evaluation and Graduation Requirement:

1. Students must take the Proposal Examination within the second semester of the first year of study. All examination committee is appointed by the Faculty.

2. Students must submit the research progress report every semester.

3. Students have to take a Thesis Defense according to the Code of Conduct of Graduate School, Khon Kaen University.

4. To graduate, student must have a Grade – Point Average (GPA) of at least 3.00 based on a 4.00 scale.

5. Students have to present their research work a the international or international conference (with full proceedings) or have at least 1 national or international publication (according to the Code of Conduct of Graduate School, Khon Kaen University).

Document required:-

- Two (2) letters of recommendation
- Official transcript (s) (original or Certified True Copies) of all academic records.

- All foreign documents must be accompanied with and English translation by an approved foreign credential evaluation service.

- A copy of a degree certificate in English

- Additional document needed for international students: A copy of a passport (profile page)

Closing date for Nominations: March, 2017

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 (Science Technology)	3(2-2-5)

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/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 foundamental 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

Couse 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 1	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

C. Elective Courses

Plan A – 1, Plan A – 2	3 credits
Elective as Recommended by Advisor	3 credits
Plan B	18 credits
JEE 634 Climate Influence on Buildings and End – Use Requirements	3 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

D. Thesis/Internship/Research Study

Plan A – 1	21 credits
JEE 630 Thesis	
Plan A – 2	
JEE 610 Thesis	12 credits
JEE 616 Internship or JEE617 International Inturnship	9 credits

Plan B

JEE 618 Research Study 6 credits

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 – iBTO 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.

Graduate required:

– 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.

Document required:

- 1 recent photograph 1 inch size
- Transcript (if incompletes, 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 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; 1st semester: August - December
2nd 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

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 aboard 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 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: 1st semester : August – December

2nd 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 2nd 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.