



**විදේශ සම්පත් දෙපාර්තමේන්තුව**  
**வெளிநாட்டுவளங்கள்திணைக்களம்**  
**Department of External Resources**

මුදල්, ආර්ථික සහ ප්‍රතිපත්ති සංවර්ධන අමාත්‍යාංශය  
මහලේකම් කාර්යාලය (3වැනි මහල), තැ.පෙ. 277, කොළඹ 00100, ශ්‍රී ලංකාව

நிதி பொருளாதாரம் மற்றும் கொள்கை அபிவிருத்தி அமைச்சு  
செயலகம் (3ஆம் மாடி), த. பெ. இல. 277, கொழும்பு 00100, இலங்கை

Ministry of Finance, Economy and Policy Development  
The Secretariat (3<sup>rd</sup> 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/TH/Gen/2020

ඔබේ අංකය  
உமது இல  
Your No

දිනය  
திகதி  
Date

10<sup>th</sup> February 2020

- Secretary to the Cabinet Ministers / Office of the Cabinet**  
**Secretary General to the Parliament / The Parliament**  
**Secretary of the Chief Government Whip / Office of the Chief Government Whip of Parliament**  
**Secretary to the Leader of the House of Parliament / Office of the Leader of the House of Parliament**  
**Secretary / Public Service Commission**  
**Secretaries / All Ministries**  
**Auditor General / Auditor General's Department**  
**Commissioner General / Election Commission of Sri Lanka**  
**Director General / Commission to Investigate Allegations of Bribery or Corruption**

**Attn: Officer- in-charge of Foreign Training**

Dear Sir / Madam,

**Scholarships for Masters Degrees / Diploma Certificates Under the Thailand International Postgraduate Programme (TIPP) for the year 2020**

The Government of Thailand has invited nominations from eligible Government Officials in Sri Lanka for the following Masters programmes for the academic years 2020-2022 to be held in Thailand. The guidelines and course details are enclosed for your information please.

ERD Code	Training Programme	Duration
TA/TH/L/01	Master of Science in Bioscience for Sustainable Agriculture (International Programme)	Jul. 2020 – Oct. 2022
TA/TH/L/02	Master of Rural Development Management (M.R.D.M.) (International Programme)	Jun. 2020 – Sep. 2021
TA/TH/L/03	Master of Science (Environmental Science)	Jun. 2020 – May 2022
TA/TH/L/04	Master of Science / Master of Engineering Programme in Energy Technology and Management	Aug. 2020 – Jul. 2022
TA/TH/L/05	Master of Science Programme in Geographic Information Science	Jun. 2020 – May 2022
TA/TH/L/06	Master of Science Programme in Earth System Science	Jul. 2020 – Jun. 2022
TA/TH/L/07	Master of Science, Programme in Food Science and Technology (International)	Aug. 2020 – May 2022

අධ්‍යක්ෂ ජනරාල්  
பணிப்பாளர் நாயகம்  
Director General

94-11-2484693

කාර්යාලය  
அலுவலகம்  
Office

94-11-2484500  
94-11-2484600

ෆැක්ස් අංකය  
தொலைநகல்  
Fax

94-11-2447633  
94-11-2387153  
94-11-2434876



TA/TH/L/08	Master of Science Programme in Agriculture Biotechnology	Jun. 2020 – May 2022
TA/TH/L/09	Master of Science Programme in Postharvest Technology and Innovation	24.08.2020 – Aug. 2022
TA/TH/L/10	Master of Science (Veterinary Public Health)	Jun. 2020 – May 2022
TA/TH/L/11	Master of Science Programme in Dermatology and Dermatotomy	Aug. 2020 – May 2022
TA/TH/L/12	Master of Public Health (International Programme)	27.05.2020– 30.06.2021
TA/TH/L/13	Master of Public Health	24.08.2020 – Aug. 2022
TA/TH/L/14	Master of Science (Nursing Science)	Jun. 2020 – May 2022
TA/TH/L/15	Master of Science Programme in Occupational Medicine and Occupational Health	Aug. 2020 – Jul. 2022
TA/TH/L/16	Master of Science Programme in Phytopharmaceutical Science	Aug. 2020 – Jun. 2022
TA/TH/L/17	Master of Science in Pharmacy Programme in Pharmacology and Biomolecular Science	Aug. 2020 – Jul. 2022
TA/TH/L/18	Master of Science Programme in Environmental, Safety Technology and Health	Aug. 2020 – Jul. 2022
TA/TH/L/19	Master of Science Programme in Engineering and Technology	Aug. 2020 – Jul. 2022
TA/TH/L/20	Master of Science Programme in Biopharmaceutical Sciences	Aug. 2020 – Jul. 2022
TA/TH/L/21	Master of Arts Programme in Asia Pacific Studies	Aug. 2020 – Jan. 2022
TA/TH/L/22	Master of Arts Programme in Diplomacy and International Studies	Aug. 2020 – Jul. 2022
TA/TH/L/23	Master of Arts Programme in Diplomacy and International Studies	Jun. 2020 – Mar. 2022
TA/TH/L/24	Master of Arts (Public Policy)	May. 2020 – Jun. 2021

You are kindly requested to submit your 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 on or before 26<sup>th</sup> of March 2020.

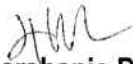
1. Dully filled Application Form in **typed-block letters** form along with certified copies of the certificates of Academic and Professional Qualifications (**in four sets**)
2. Transcript with all details of subjects and marks and other required documents specified in the course details
3. The completed Medical Report (four reports)
4. Recommendation letter (three referees)
5. Candidates who English is not the first language and Bachelor's degree was not taught in English have to pass an English Language proficiency test according to criteria announced by University regulations.

6. TOEFL or IELTS result (not more than 2 years from the date of result to the date of study commencement).
7. A copy of the passport (names written in the forms must be the same as appear in the passport)
8. Duly filled ERD form No: 2 "Essential Information of the nominee" (Original Copy only).

The guidelines, Course details, Application Form, Medical Form and the ERD Form can be downloaded from ([www.erd.gov.lk](http://www.erd.gov.lk)) or (<http://www.tica.thaigov.net/main/en/relation/75500-TIPP-Application-form.html>). 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



**L.A.Y. Darshanie De Silva**  
Director/TA Division  
for Director General





**Thailand International 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 forms 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.** The National Focal Point for International Development Cooperation of the nominating Government will forward one original and two copies of certified application form and other related documents 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 countries/territories. The candidate 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:** .....

**Institute:** .....

**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 : .....		
.....		.....	E-mail : .....		
.....		.....	Fax No : .....		
.....		.....	International Airport/City for departure :		
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:.....									
<b>English Proficiency Test</b> (please attach) <input type="checkbox"/> TOEFL Score ..... <input type="checkbox"/> IELTS Score ..... (only a candidate for a degree course) <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 : Dates from _____ to _____	Description of your work, including your personal responsibilities
Title of your post:	
Name of organisation:	
Ministry .....	
Type of organisation:	
Official address:	
Previous post : Dates from _____ to _____	Description of your work, including your personal responsibilities
Title of your post:	
Name of organisation:	
Ministry .....	
Type of organisation:	
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:

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

Printed name: .....

Date: .....



**E. GOVERNMENT AUTHORISATION** (To be completed by the National Focal Point for International Development Cooperation in charge of nomination of the candidate (see guideline for TIPP for detailed information on nomination.))

**Supervisor's Endorsement:**

I certify that, to the best of my knowledge,

- (a) all information supplied by the candidate is complete and correct;
- (b) the candidate 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 candidate will be employed in the following position:

Title of post .....

Duties and responsibilities.....

.....

.....

*Signature of responsible supervisor*

*(Official stamp)*

Title: .....

Organisation: .....

Official address: .....

.....

.....

E-mail :.....

Date: .....

**National Focal Point for International Development Cooperation Endorsement:**

(To be completed by the National Focal Point for International Development Cooperation, please affix seal here or attach a Diplomatic Note)

*(Official stamp)*

## Attachment

<b>MEDICAL REPORT</b>			
Name of Candidate.....	Age: .....	Gender: .....	
Country.....			
<b>Physical Examination (To be filled in by physician)</b>			
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"/>	.....
<b>Orthoscopic Exam</b>			
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 ..... %

: Colour ..... Sp. Gr ..... pH .....

Sugar .....

Alb ..... Blood ..... Ketones ..... Blie.....

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

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

Stool examination for parasite &amp; 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 candidate able physically and mentally to carry on intensive study away from home?  
.....Is the candidate 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 candidate) Is the person examined pregnant?  
.....Does the candidate have any condition or defect which might require treatment during the scholarship period?  
.....

I certify that the candidate 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: .....



**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 the National Focal Point for International Development Cooperation in a country from the TIPP eligible countries/territories list. (See "List of Eligible Countries/Territories")

1.2 Candidates should be working in the area related to the course provided.

1.3 Candidates must have Bachelor's 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 who English is not the first language and Bachelor's degree was not taught in English have to pass an 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 awardees who violate rules and regulations.

1.9 Other requirements apart from these will be under consideration by the University regulations.



## **2. Procedures for application submissions**

2.1 The candidates must fill in the online application form on TICA website: Thailand International Cooperation Agency (TICA). Menu: Fellowships and Scholarships, Sub - menu: Thailand International Postgraduate Programme, Click on: TIPP 2020

([https://docs.google.com/forms/d/e/1FAIpQLSccoSVDLB5Kgg13jLTJBtL28Y\\_A-uQB4YAvCLj6haWkNgmaAA/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSccoSVDLB5Kgg13jLTJBtL28Y_A-uQB4YAvCLj6haWkNgmaAA/viewform?usp=pp_url))

2.2 The candidates must be nominated by the National Focal Point for International Development Cooperation (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. The National Focal Point will forward the nominated candidates' documents to the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible countries/territories.

Please prepare one (1) original with two (2) copies of each document as these following items:

1. TIPP application form (Download at:

<http://www.tica.thaigov.net/main/en/relation/75500-TIPP-Application-form.html>)

2. Medical report

3. Transcript of Bachelor's degree (to show the courses that you have learnt throughout Bachelor's degree)

4. Certificate of Bachelor's degree

5. English test score (e.g. TOELF, IELTS)

6. Recommendation Letter (At least 3 people)

7. Thesis proposal or other documents (As university request)

All forms are duly filled out and endorsed by the candidates' supervisor and the National Focal Point for International Development Cooperation. All of related documents must be in English.

Each of eligible countries/territories can nominate up to five (5) candidates per academic programme.

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

### 3. Selection of candidates

3.1 In considering applications, particular attention shall be paid to the candidates' background, their current position in the service of their Government, and practical use they expect to make of the knowledge and experience gained from studying 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 countries/ cooperation frameworks.

### 4. Condition for Attendance

4.1 Awardees are required to study full time and not to change the programme 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. Benefit of Awardees

The Royal Thai Government will bear the following expenses for successful candidates during their study in Thailand. The expenses include:

5.1 Return economy class air ticket and airport pick - up service

#### Return economy class air ticket

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

Transit destination will be arranged, in case of a need for visa application to Thailand, with the most direct and the most economical route basis.

All booking and changes to the booking, including 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 in Thailand* – will be provided via the most economical route from the Suvarnabhumi International Airport, Thailand to the airport where the university located.

Your scholarship is confirmed once the travel documents/flights are verified.

#### Airport pick - up 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 present the instruction of scholarship award for the airport transfer. A taxi fare paid by awardees cannot be reimbursed.

#### 5.2 Monthly subsistence, settlement, books and thesis allowance

##### Monthly subsistence allowance

- *Living allowance* - Awardees will receive living allowance at the amount of 7,000 Baht per month.

- *Accommodation allowance* - Awardees will receive accommodation allowance at the amount of 7,000 Baht per month in the regional province or 9,000 Baht per month in Bangkok and Phuket.

Awardees need to bring pocket money of approximately USD30 to cover the payment of rental deposit (usually for 2 months) and advance rental for 1 month as requested by most accommodation owners. TICA will not be responsible for the deposit since awardees will receive back the deposit when their accommodation contract terminated.

##### Settlement allowance

Awardees will receive the settlement allowance at the amount of 6,000 Baht on their first arrival to Thailand.

##### Books allowance

Awardees will receive books allowance at the amount of 10,000 Baht per year. (Only 4 semesters for Master's degree)

##### Thesis allowance

Awardees are strongly recommended to make necessary data collection in relation to their proposed research topic, if it is to be done in their country, prior to coming to Thailand. Awardees will be given the thesis allowance as a lump sum amount of 20,000 Baht for compulsory fieldwork or data collection and a lump sum amount of 12,000 Baht for thesis printing or 8,000 Baht for independent study (IS) printing.



### 5.3 Visa arrangement

Awardees will be responsible for obtaining Non – immigrant visa Type “F” prior to their travel to Thailand. TICA will provide facilitation to awardees who require visa application i.e. liaising with the Royal Thai Embassy/Royal Thai Consulate – General 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 awardees 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.

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

### 5.4 Tuition fee

Awardees’ tuition fee will be directly reimbursed from TICA, except equipment insurance fee, transcript and certificate fee

### 5.5 Insurance

Accident and Hospitalization Insurance during the period of study in Thailand will be provided. Cost 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.

## 6. Contact address

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: [tipp@mfa.mail.go.th](mailto:tipp@mfa.mail.go.th)

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## Course Detail

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

<b>Course Title:</b>	Master of Science in Bioscience for Sustainable Agriculture (International Program)
<b>Master Degree:</b>	M.Sc. (Bioscience for Sustainable Agriculture)
<b>Academic Institution:</b>	Faculty of Animal Sciences and Agricultural Technology, Silpakorn University.
<b>Duration:</b>	2 years 4 months (July 2020 – October 2022)

#### **Background and Rational:**

Faculty of Animal Sciences and Agricultural Technology (ASAT) locating in the area which has been developed under His Majesty the King Rama IX Royal Projects (such as the HuaySai Royal Development Study Center, Sirindhorn International Environment Park, “Chang-Hua-Mun” Royal Initiative Project and the King Royally Initiated Laem Phak Bia Environmental Research and Development Project) -is thus in a suitable position to produce graduates who are capable of solving agricultural problems using the theory of sufficient economy. In addition to several learning center for sufficiency economy, there are many agricultural activities, involving extensive production of plants, animals and aquatic animals, such as pineapple production, dairy farming, goat raising and cultivation of commercial aquatic animals. However, not all farmers can practice a good and sustainable agriculture. Thus, providing the farmers with principles and assist them to conduct agricultural production safely, efficiently and sustainably will not only benefit the livelihood of the farmers, provide safe food for the consumers but also benefit to the natural resources and environment.

For this reason, ASAT, Silpakorn University, Phetchaburi IT campus, has initiated the project to launch the curriculum with the emphasis on teaching and researching for the sustainability in agriculture. This curriculum will emphasize on the use of tool and technology in biological science to solve the problem in agricultural production sector. The program aims for academic excellence on producing postgraduate personnel who possess academic capability, ethical and social acceptance, ability to conduct research to create new knowledge and ability to transfer this knowledge to help develop the community, the society, and the nation.

With the readiness of facilities and personals in agricultural research of the ASAT faculty, the research topics, in which both the Faculty of ASAT and other collaborative governmental agencies should conduct under the framework of sufficient economy, include sustainable animal production, clean technology, animal care and hygiene, plant pest control, sustainable coastal resource management, appropriate technology for environmental control, soil conservation, integrated soil fertility management, plant genetic management and

efficient agricultural waste utilization. These researches are highlighted by the ASAT staffs and the concept of sustainable agriculture is put realistically into practice.

### Objectives:

Master of Science in Bioscience for Sustainable Agriculture (International Program) aims to create personnel in agriculture with the capability to integrate bioscience knowledge with local wisdom, on the emphasis of the conservation of natural resources and environment to promote and develop the sustainability of agriculture.

### Course Synopsis and Methodology:

The Master of Science Program in Bioscience in Sustainable Agriculture (International Program) requires the candidate to take courses no less than 24 credits plus the research which is equivalent to 12 credits (Total 36 credits). The degree shall be awarded when the students fulfill one international publication.

### Study plan

#### The first year

Course code	Course name	Credits
<u>First Semester</u>		
715 501	Cell Science and Molecular Biology	3(3-0-6)
715 502	Bioscience for Agricultural Sustainability	3(3-0-6)
715 503	Research Methodology and Applied Bioscience for Agricultural Sustainability	3(3-0-6)
715 504	Seminar in Bioscience for Sustainable Agriculture I	1(1-0-2)
715 506	Generic Skills for Research in Bioscience for Sustainable Agriculture	1(1-0-2)
<b>Total</b>		<b>11 credits</b>
<u>Second Semester</u>		
715 505	Seminar in Bioscience for Sustainable Agriculture II	1(1-0-2)
715 507	Research in Bioscience for Sustainable Agriculture	3(2-3-4)
	Elective Course	6
<b>Total</b>		<b>10 credits</b>

Thesis Proposal examination shall be conducted before the first semester of the second year.

#### The second year

<u>First Semester</u>		
715 592	Thesis	6
	Elective Course	3
<b>Total</b>		<b>9 credits</b>



		Comprehensive examination	
<u>Second Semester</u>			
715 592	Thesis		6 credit
	<b>Total</b>		<b>6 credits</b>
		Thesis defense examination	

### Courses

<b>Required courses</b>		<b>15 credits</b>	
715 501	Cell Science and Molecular Biology		3(3-0-6)
715 502	Bioscience for Agricultural Sustainability		3(3-0-6)
715 503	Research Methodology and Applied Bioscience for Agricultural Sustainability		3(3-0-6)
715 504	Seminar in Bioscience for Sustainable Agriculture I		1(1-0-2)
715 505	Seminar in Bioscience for Sustainable Agriculture II		1(1-0-2)
715 506	Generic Skills for Research in Bioscience for Sustainable Agriculture		1(1-0-2)
715 507	Research in Bioscience for Sustainable Agriculture		3(2-3-4)
<b>Elective courses</b>		<b>not less than 9 credits</b>	
715 521	Animal Genetic Improvement and Conservation		3(3-0-6)
715 522	Farming Management Technology		3(3-0-6)
715 523	Hygiene in Dairy Production		3(3-0-6)
715 524	Organic Livestock Production For Sustainability		3(3-0-6)
715 525	Diagnosis of Aquatic Animal Diseases		3(2-3-4)
715 526	Ecology and Management of Aquatic Resources		3(3-0-6)
715 527	Genetic Improvement for Crop Production		3(3-0-6)
715 528	Integrated Pest Management		3(2-3-4)
715 529	Microbial Diversity and Application		3(2-3-4)
715 530	Plant Genetic Resource and Application		3(3-0-6)
715 531	Postharvest Physiology and Technology		3(2-3-4)
715 532	Seed Technology		3(2-3-4)
715 533	Soil Fertility and Integrated Soil Resource Management		3(2-3-4)
715 534	Natural Resources and Management		3(3-0-6)
715 535	Plant Pathology		3(2-3-4)
715 536	Biological Control of Insect Pests		3(2-3-4)
715 537	Insect Biotechnology		3(3-0-6)
715 538	Research in Agricultural Areas		3(3-0-6)
715 539	Agribusiness Entrepreneur		3(3-0-6)
715 540	Molecular Biology Techniques for Bioscience		3(3-0-6)
715 541	Bioinformatics for Research		3(3-0-6)
715 542	Pathobiology		3(3-0-6)
715 543	Applications of Geographical Information Systems for Sustainable Agriculture		3(3-0-6)
715 544	Selected Topics in Bioscience for Sustainable Agriculture		3(3-0-6)
<b>Thesis (equivalent to)</b>		<b>12 credits</b>	
715 592	Thesis (equivalent to) credits		12

**Graduation Conditions:**

- Complete the courses as specified by the program with an average score of not less than 3.00 from the 4 levels score system or equivalent.
- Pass the comprehensive examination and English test.
- Present a thesis and pass the final oral examination by the committee that the University has appointed. The examination shall be open to the general public who may be interested on the examined topic.
- Thesis work or part of the thesis must be either published in a journal or an international conference proceeding at least 1 publication.

**Applicant Qualifications**

The applicants must hold 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 GPA of 2.50 or higher in the 4 levels score system or equivalent. Age should be no more than 40 year-olds.

**Document Required**

1. Certified copy of transcript of record (High school and Bachelor's degree transcript, English version)
2. Certified copy of degree certified (English version)
3. Copy of TOEFL, IELTS, TOEIC or equivalent test result
4. Two letters of recommendations from the faculty members of the home institutes
5. 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
6. Concept proposal of research field of interest (not more than 250 words)

**Contact:**

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For academic information:

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For administrative contact:  
Miss Suchanuch Klongjai

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



### Course Detail

#### Master of Rural Development Management (M.R.D.M.) (International Program)

<b>Course Title:</b>	Master of Rural Development Management (M.R.D.M.) (International Program)
<b>Master Degree:</b>	Master of Rural Development Management (International Program)
<b>Academic Institution:</b>	Graduate School, Khon Kaen University
<b>Duration:</b>	One (1) academic year (15 months) (June 2020 – September 2021)
<b>Background and Rational:</b>	

#### Program's Background

Economic, political, social and cultural changes that occur in the current globalization has a great impact on people's lives. As a former Secretary-General of the United Nations,

Mr. Ban Ki – Moon noted in the Millennium Development Goals Report 2015, “*disparities between rural and urban areas remain pronounced*” and big gaps persist in different sectors. In addition, the United Nations also realizes the importance of rural development for sustainability that making rural development plays an important role for developing the country, especially for the rural area where most of the world's poorest people live. From the past, although the development policy of Thailand and many other countries have been focusing on the solutions of poverty and inequality among rural people, still it is not as successful as it should be. Many people are still poor, in debt, being a migrant worker. Also, some rural people have lost their arable land and become a producer that have to rent others to do agriculture. They often lack of morale in the development of production and lack of incentives to conserve agricultural resources for sustainable use.

#### Program's Rationale

From the above changes and including the disruptive change of the world today, this inevitable affects people's way of life more or less. Khon Kaen University is an initial university that produce graduates dedicating to work for the society since 1969. Specifically, for graduate study, Master of Rural Development is the first international program for international students since 1992. The program has been implemented, since then following the changes of economy, politic, society, and culture that happens throughout the times. Hence, the program has improved in 2017 to be in accordance with the Twelfth National Economic and Social Development Plan (2017-2021), for the graduates to be able to adapt the knowledge of Sufficiency Economy Philosophy to apply for their professional and academic works.

#### Benefits of program:

The program provides the ways to promote economic prosperity. Since materialism and globalization affect to rural people's living, way of life and local traditions, because most of them cannot adjust themselves to the changing of society, economic and technology. Urban society and foreign culture also influences on rural people who receive information from many channels which affect their living, values, eating behavior and entertainment activities. These things make the living cost of rural people higher. However, rural people have limited income, so it's caused debt in rural communities. Rural labors have to immigrate to work in the city that



cause the family's problems. Beliefs, values and local traditions are passed on to the new generation less than the past. The relationship among people in rural society get worse.

Thai Government is developing economic, politics, society and cultures by using sufficiency economy theory especially THE TWELFTH NATIONAL ECONOMIC AND SOCIAL DEVELOPMENT PLAN (2017-2021). The plan adapts sufficiency economy theory to development strategies. The strategies focus on continuous process and conform to good governance. The program is improved to conform to Thai government's strategies and insert sufficiency economy theory to develop society and culture.

### **Expertise, Excellence, Knowledge, Staffs and facilities:**

One of Khon Kaen University missions is to produce the qualified and international standard students to develop society. Hence, Khon Kaen University has a vision to be the leader in the higher educations of ASEAN. We will be the university of learning, research, qualified, and community and country development.

Rural development management program is a uniqueness of multi-disciplinary program coordinated by Graduate School at Khon Kaen University. The main purpose of the curriculum is to increase knowledge and experiences in management focus to rural society which are mostly located in rural region or some part of cities or towns. The curriculum emphasizes on community analysis, leadership, factors to drive change, tools to manage and tackle the problems, and how to approach the community, which respects people ability and social value. The field trip experiences to understand difficulties of work and management style are important to create atmosphere for learning and discussion. The key areas of study – human resource, social - cultural aspect, economic aspect and ecology/environmental aspect.

Committee and teaching staffs come from related faculties of Humanities and Social Sciences, Agriculture, Public Health, Education Nursing, Engineering, Science, Pharmacy and Management Science. We assure that our expertise, and excellence of academic and research knowledge, and facilities resources have been operated in Rural Development Management Program for 27 years.

### **Program Proficiency**

Khon Kaen University recognizes the importance and necessity of personnel development in rural development management, as to promote and support countries' development on policy plan and provide guidelines for suitable and successful rural development projects for international students' great experience. From the past, the program has produced numerous graduates from different parts of the world such as Asian countries that are Laos, Vietnam, Myanmar, Indonesia, Timor-Leste, Sri Lanka, Bangladesh, China, Japan, Bhutan, Pakistan; African countries that are Gambia, Kenya, Namibia, Tanzania, Vanuatu, Lesotho, South Sudan, Cameroon, Malawi, and Eritrea and the north America – the USA. In 2018, the program has produced 166 graduates who will be involved in rural development work in their countries and international organizations for the consistent and suitable for political, economic, social and cultural changes.

### **Objectives:**

The Master's program in Rural Development Management intends to produce post-graduates who are qualified as follows:

1. Being able to understand principles and theories of rural development as a multi-disciplinary science, and able to apply the principles and theories of rural development management by inculcating knowledge and experience from former careers.

2. Skilled in management, development plan establishment, development project settlement, as well as skilled in conducting and analyzing research on the physical circumstances, society, economy, culture, technology and environment of an individual locality.

3. Have good attitudes towards rural development management and have a sense of initiative about self-development, as well as well-defined social skills in the areas of human interaction and leadership.

### Course Synopsis and Methodology:

#### Study plan

This program is one year and three-month full-time program, divided into three semesters, 12-15 weeks per each semester. The program plan study can be as follows:

#### First Semester: (14 credits)

No.	Course Title	Number of Credits
1.	Theories and Approaches in Rural Development	3
2.	Economics and Politics of Rural Development	3
3.	Applied Statistics for Rural Development	3
4.	Research Methodology for Rural Development	3
5.	Field Study Experience in Rural Development	2

#### Second Semester: (12 credits)

No.	Course Title	Number of Credits
1.	Local Institutional Development	3
2.	Management of Rural Development Project	3
3.	Rural Resource Systems Analysis	3
4.	Seminar in Rural Development Management	1
5.	Independent Study	2



**Third Semester: (10 credits)**

No.	Course Title	Number of Credits
1.	Conflict Resolution in Community and Environment	3
2.	Sufficiency Economy Philosophy for Sustainable Rural Development Management	3
3.	Independent Study	4
	<b>Total</b>	<b>36</b>

**Course Content**

Plan A	Categories of Courses	Courses	Credits
Type A1	Major Required Courses	117 711 Theories and Approaches in Rural Development	3 (Non-credits)
		117 723 Research Methodology for Rural Development	3 (Non-credits)
		117 892 Seminar in Rural Development Management	1 (Non-credits)
	Thesis	117 898 Thesis	36
<b>Total</b>			<b>36</b>
Plan A Type A2, Plan B	Major Required Courses	117 711 Theories and Approaches in Rural Development	3
		117 723 Research Methodology for Rural Development	3
		117 724 Management of Rural Development Project	3
		117 725 Rural Resources System Analysis	3
		117 715 Sufficiency Economy Philosophy for Sustainable Rural Development Management	3
		117 891 Seminar on Field Study Experiences in Rural Development	2

	117 892 Seminar in Rural Development Management	1
<b>Total</b>		<b>18</b>
Major Elective Courses	117 712 Economics and Politics of Rural Development	3
	117 713 Local Institutional Development	3
	117 714 Comparative Studies in Rural Development	3
	117 721 Evidence-based Practices in Rural Development	3
	117 722 Applied Social Statistics for Rural Development	3
	117 726 Knowledge Management in Rural Development	3
	117 727 Conflict Management in Rural Development	3
	117 728 Specific Topics in Rural Development	3
<b>Total</b>		<b>(A2=10)</b> <b>(B=22)</b>
Thesis	117 899 Thesis	12
	117 897 Independent Study	6
<b>Total</b>		<b>(A2=12)</b> <b>(B=6)</b>

**Graduation Conditions:**

Adherence to the Regulations of Khon Kaen University

1. Earn all credits required by the program and obtain a cumulative GPA not lower than 3.00
2. Pass the Comprehensive Examination and Independent Study examination as applicable
3. Must have paid all fees and not be indebted to the University or the department.
4. Has submitted the IS report and other related materials according to the format and the date set by the Graduate School.
5. Has passed the English proficiency test as required by the University
6. Has published or presented research work at research conference or journal

### **Applicant Qualifications**

Applicants must satisfy the following criteria:

1. Possess a bachelor's degree or equivalent in any related field
2. Proficiency in English
3. At least three (3) years of professional experience in rural development
4. Preferably not over 45 years of age

### **Document Required**

- TIPP application form (Download here:  
<http://www.tica.thaigov.net/main/en/relation/75500-TIPP-Application-form.html>)

- Medical Report

- Transcript

- Recommendation Letter

- English Test

- A brief proposal for an independent study, including a topic, statement of the problems, objectives and expectations

### **Contact:**

Graduate School

Khon Kaen University

123 Mittraparb Highway, Muang,

Khon Kaen, 40002, Thailand

Tel. (66) 4320 2420 Fax. (66) 4320 2421

<http://inter.gs.kku.ac.th> ,

### **Contact person :**

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### **Course Detail**

#### **Master of Science (Environmental Science)**

<b>Course Title:</b>	Master of Science (Environmental Science)
<b>Master Degree:</b>	M.S. (Environmental Science)
<b>Academic Institution:</b>	Faculty of Science, Chiang Mai University
<b>Duration:</b>	2 years (June 2020 – May 2022)

### **Background and Rational**

#### **Environmental Science program at CMU**

It is well recognized that rapid economic development brings with it serious environmental problems such as deforestation, soil erosion, loss of biodiversity, pollution and climatic change. In most developing countries in Asia, environmental problems are arising faster than they did during the industrial revolution in the West. These problems often go undetected until it is too late to solve them.

The Environmental Science (ES) program provides students with the basic tools and concepts of environmental monitoring and emphasizes a multidisciplinary approach to the assessment, analysis and solving of environment problems in developing countries. Students who successfully complete the program will be competent in such activities as pollution monitoring, land use planning, ecosystem rehabilitation and the preparation of environmental impact assessments for development projects.

### **Lecturers and Staff**

Lecturers are mainly from 3 departments (Chemistry, Biology and Geology) of Faculty of Science, Chiang Mai University and some supports come from Department of Environmental Engineering, Faculty of Engineering and The Institute of Health Science Research as well as Faculty of Medicine.

### **Objectives**

To develop the knowledge and technology needed to solve emerging pollution problems and to plan for their prevention.

1. To carry out research to determine the fate of pollutants in ecosystems and to determine the risk of their detrimental effects on human health and agriculture.
2. To train students in surveying and monitoring techniques to determine the original condition of ecosystems and to enable rapid assessments to be made for hazard prevention.
3. To promote research to encourage the proper use of natural resources that minimize waste and hazards to health and the environment.

### Course Synopsis and Methodology

This program requires the student to take courses not less than 21 credits plus 15 credits for thesis. To At least 1 master's thesis work or a part of master's thesis work must be published or at least accepted to publish in international journal listed in ACI, Scopus, ISI Web of Science, IEEE, PubMed database or as a full paper in an international academic conference with proceedings.

### Study Plan

1 <sup>st</sup> year					
1st semester		Credits	2nd semester		Credits
213706	Biomonitoring and Ecosystem Management	3	213708	Experimental Design and Environmental Data Analysis	3
213707	Environmental	3		Elective course	3
	Elective course	3		Elective course	2
	Elective course	2		ES Seminar	
	ES Seminar			Thesis Proposal	
	<b>Total</b>	<b>11</b>		<b>Total</b>	<b>8</b>

2 <sup>nd</sup> year					
1st semester		Credits	2nd semester		Credits
213791	Seminar in Environmental Science 1	1	213792	Seminar in Environmental Science 2	1
213799	Master's Thesis	9	213799	Master's Thesis	6
	Study tour				
	<b>Total</b>	<b>10</b>		<b>Total</b>	<b>7</b>

### Course Content/Study Topic

A. Coursework	a minimum of	21	credits
1.1 Field of Specialization	a minimum of	18	credits
1.1.1 Required courses		11	credits
213706	Biomonitoring and Ecosystem Management	3	credits
213707	Environmental Analysis	3	credits
213708	Experimental Design and Environmental Data	3	credits
213791	Seminar in Environmental Science 1	1	credit
213792	Seminar in Environmental Science 2	1	credit
1.1.2 Elective courses	a minimum of	7	credits

202770	Tropical Plant Ecology	3	credits
202773	Limnology	3	credits
202873	Wildlife Conservation	3	credits
205808	Contaminant Hydrogeology	4	credits
213703	Environmental Science Concepts	3	credits
213711	Environmental Impact Assessment	3	credits
213712	Standard and Regulations in Environmental	1	credit
213713	Environmental Modeling	3	credits
213714	Environmental Risk Assessment	2	credits
213715	Health Impact Assessment	2	credits
213716	Environmental Microbiology	3	credits
213717	Air Quality Monitoring and Assessment	3	credits
213718	Fate and Transport of Pollutants in	3	credits
213719	Environmental Organic Chemistry	3	credits
213720	Soil and Groundwater Remediation	3	credits
213763	Integrated Waste Management Technology	3	credits
213769	Selected Topics in Environmental Science 1	1	credit
213779	Selected Topics in Environmental Science 2	2	credits
213789	Selected Topics in Environmental Science 3	3	credits
1.2	Other courses (if any)	a maximum of	3 credits

Student may enroll in graduate courses upon approval of graduate program administrative committee.

**B. Thesis**

213799	Master's Thesis	15	credits
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### **Graduation Conditions**

At least 1 publication or acceptance to publish in an international journal listed in ISI, Scopus, IEEE, PubMed or Web of Science databases.

### **Applicants Qualifications**

Applicants should have a bachelor degree in biology, chemistry, geological sciences, geography, agriculture, environmental science, environmental engineering or related fields with the least final GPA of 2.5. Other applicants may be admitted on conditions that they receive approval from the Environmental Science Program Committee.

### **Document Required**

1. Certified copy of transcript of record for Bachelor degree (in English)
2. Photocopy of the National ID card or passport.
3. Two letters of recommendations from faculty member of the home institute or Employer.
4. English language certificate (TOEFL, IELTS or equivalent test result), if available



**Contact**

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**Course Detail**  
**Master of Science/Master of Engineering Program in Energy Technology and Management**

<b>Course Title:</b>	Energy Technology and Management
<b>Master Degree:</b>	Master of Science/Master of Engineering
<b>Academic Institution:</b>	The Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology Thonburi (KMUTT)
<b>Duration:</b>	2 Academic Years (August 2020 – July 2022)

**Background and Rationale:**

Graduates from the Master of Science/Master of Engineering program in Energy Technology and Management will demonstrate professionalism through their technical and academic knowledge and capabilities in practical problem-based research, and their morals and ethics towards sustainability and self-sufficiency development pathway, and the society. The graduates will be capable to conduct collaborative research and/or technical works at the local, national, international especially at regional (e.g. GMS, ASEAN, etc.) levels on energy critical issues, including energy security, energy efficiency, energy policy, and energy and climate change and its mitigation options. Their abilities and skills include energy and environmental data and information analysis, diagnosis, and synthesis in order to develop, adapt and select appropriate technologies, methods and approaches, enabling the country to go towards green economy and sustainable development. Their professionalism should significantly benefit countries in the Asia-Pacific region as well as others in the world that are on the way of rapid growth development under the context of globalization. On an aspect of smart urban development, this program focuses on advanced digital technologies, energy storage, and intelligent net-zero energy buildings to enhance energy efficiency and renewable energy use. For the sustainable bioeconomy viewpoint, this program develops biomass and waste technologies for energy production and GHG emission reduction.

**Objectives:**

- To produce graduate scientists and engineers who have acquired advanced theoretical and practical knowledge and skill in the fields of energy and environment, professionally capable to analyze and synthesize data into key findings to be disseminated to stakeholders in native language and in English.
- To produce graduate scientists and engineers specialized in energy related issues, who possess capabilities to understand and develop approaches or solutions to energy problems and their implications on the environment.
- To promote capacity building by hands-on research and problems/challenges solving for both public and private sectors.

**Course Synopsis and Methodology:**

**Study plan** 40 Credits

	<b>Credits</b>
Compulsory	7
Specific Compulsory	9

Elective	3
Thesis	21

**Course content**

1. Compulsory Courses	7 credits	
JEE xxx Seminar		1
credit		
JEE 613 Research Methodology		3
credits		
JEE 625 Energy and Environmental Economics, Management and Policy		3
credits		
2. Specific Compulsory Courses	9 credits (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 xxx Seminar		3
credits		
JEE 631 Strategic Planning and Project Management		3
credits		
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 waste management		3
credits		
JEE 636 Building Energy 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		
Energy and Environmental Policy Laboratory (EEPL)		



credits	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
	Other	
	JEE 603 Special study I	3 credits
3. Elective Courses	3 credits	
credits	Elective As recommended by advisor	3
4. Thesis	21 Credits	
credits	JEE 630 Thesis for M.Eng/M.Sc Energy T&M	21

**Graduation Conditions:**

- **Earning credits:** The students are required to pass all the subjects (40 Credits) with minimum grade of each subject must be above C and the total average grade (GPA) must be above 3.00
- **Publications and research results:** 1 national journal paper

**Applicant Qualifications**

M.Sc program must hold a first degree in engineering, science, economics, technology, agriculture or related fields. M.Eng program must hold in engineering only, with a minimum GPA of 2.50, or be ranked top 25% of the class. Applicants with other qualifications may be admitted on a case by case basis subject to the approval of JGSEE's Executive Committee.

**Document Required**

- A copy of passport (Bio page)
- 1 Inch size photo
- Full transcript with date of graduation
- 3 letters of recommendation
- Tentative proposal
- English proficiency test result (IELTS 6, TOEFL iBT 78, International program within 2 years)

**Contact:**

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**Course Detail**  
**Master of Science program in Geographic Information Science**

<b>Course Title:</b>	Master of Science in Geographic Information Science
<b>Master Degree:</b>	M.S. (Geographic Information Science)
<b>Academic Institution:</b>	Faculty of Agriculture Natural Resources and Environment
<b>Duration:</b>	2 years (June 2020 – May 2022)
<b>Objectives:</b>	To offer master degree courses in Geographic Information Science.

**Course Synopsis and Methodology:**

Graduates with an MSc degree in Geographic information Science will be able to:

1. Understand the range of spatial thoughts, be able to analyze, synthesize, evaluate and apply creative and critical thinking in solving applications in multidisciplinary areas in the context of geographical information systems and apply specialized knowledge of geographic information science to a wide range of disciplines effectively.

2. Develop intellectual skills in critical analysis and synthesis of information to support research themes using geospatial thoughts and examine geographical trends, apply advances in spatial information technologies and contribute to innovations in the spatial science industry by developing or creating geographic information system tools to contribute to the further academic and professional development of geographic information science.

3. Recognize, beware, and adapt to a range of applications of Geographic Information System (GIS) including the variations of geography and geographical information technologies that happens dynamically at the present time.

4. Possess an affective domain of a post graduate degree holder who is fully equipped with moral knowledge, responsibility, and ethical behavior for profession towards a more peaceful society.

**Study plan (Plan A Type A1) 36 credits**

Year	Semester 1	credits	Semester 2	credits
Year 1	104545 Research Methodology in Science and Technology (Non-credit)	3(3-0-6)	104546 Seminar 1 (Non-credit)	1 (0-3-1)
	104571 Thesis I Type A1	9	104572 Thesis 2 Type A1	9
Year 2	104547 Seminar 2 (Non-credit)	1 (0-3-1)	104574 Thesis 4 Type A1	9
	104573 Thesis 3 Type A1	9		

**Course Description**

**104571 Thesis 1, Type A 1**

Study the elements of thesis, literature review and related research, and determine thesis title.

**104572 Thesis 2, Type A 1**

Develop concept paper and prepare the summary of literature review and related research synthesis.

**104573 Thesis 3, Type A 1**

Develop research instruments and research methodology and prepare thesis proposal in order to present it to the committee.

**104574 Thesis 4, Type A 1**

Collect data, analyze data, prepare progress report in order to present it to the thesis advisor, and prepare full-text thesis and research article in order to get published according to the graduation criteria.



### **104545 Research Methodology in Science and Technology**

Definition and objectives of research, research process, research categorization, statement of problem; variables, hypothesis, experimental design, data collection and data analysis are discussed; applications of computer and statistical program for database management and data analysis for geographic information science research; proposal, report and manuscript writing; evaluation of research and research ethics.

### **104546 Seminar 1**

Issue identifying, selecting, and reading skill of academic publications in geography, geographic information science, surveying, mapping, and related fields; analyze and understand academic publications.

### **104547 Seminar 2**

Techniques for oral and poster presentation for technical or academic papers; a formal presentation of academic articles related to thesis; and performing oral presentation.

### **Course Content**

This course is a Master's degree by research (thesis). Students need to take 36 credits for thesis concerning Geographic Information technologies and applications within 2 years.

### **Graduation Conditions:**

1. Follow the study plan as scheduled.
2. Enroll in all courses as specified.
3. Pass the English examination requirement specified by the university.
4. Propose the thesis and pass the oral examination.
5. The thesis or part of a thesis must be published as a research article in an international journal based on ISI Web of Science or Scopus.

### **Applicant Qualifications**

Applicants must be holding a Bachelor's degree in Geography, Geographic Information Science and Geoinformatics or a Bachelor of Science degree in related fields which uses GIS and Remote Sensing as tools in their curriculums from an accredited college or university. Applicant's work experience will be special criteria to consider. The program admissions committee makes all admission recommendations on case-by-case basis.

### **Document Required**

1. Original undergraduate transcript
2. Grade point average of 2.75 or higher
3. Two letters of recommendation
4. TOEFL (for student non-English speaking institutions)
  - Computer based: 213
  - Paper based: 550
  - iBT: 80 and IELTS: 6.5
5. Proposed Research Proposal (maximum 2 pages of A4 paper size) :
  - Research Question
  - Purposes of Research
  - Research Framework
  - Expected Results
  - Methodology
  - References

**Contact:**

Asst.Prof.Dr. Kampanart Piyathamrongchai  
Department of Natural Resources and Environment,  
Faculty of Agriculture, Natural Resources and Environment,  
Naresuan University, Thailand  
Telephone: +66 55 962756  
Email: p.kampanart@gmail.com

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

**Course Detail**  
**Master of Science Program in Earth System Science**

<b>Course Title:</b>	Master of Science Program in Earth System Science (International Programme)
<b>Master Degree:</b>	Master of Science (Earth System Science)
<b>Academic Institution:</b>	The Interdisciplinary Graduate School of Earth System Science and Andaman Natural Disaster Management (ESSAND), Faculty of Technology and Environment, Prince of Songkla University Phuket Campus
<b>Duration:</b>	2 years (July 2020 – June 2022)
<b>Background and Rational:</b>	

The Interdisciplinary Graduate School of Earth System Science and Andaman Natural Disaster Management (ESSAND) was established as an international graduate program in 2014, aiming to contribute to the prevention and management of various environmental and disaster problems of the Andaman region as well as other areas. Since then, ESSAND has produced a high level of research and educational outputs, accepting international students from different parts of the world and obtaining research grants in and out of PSU.

Considering more contributions to its location, ESSAND sets their main study themes as “environmental and disaster research towards sustainable tourism development”:

1. Environmental research towards sustainable tourism development: As uncontrolled conventional tourism development has posed serious potential threats to many tourism destinations including Phuket, leading to the deterioration of their attractions, ESSAND will do environmental research to detect, evaluate, and improve negative factors of tourism development using advanced data science-based environmental analysis methods.
2. Disaster research towards sustainable tourism development: As more disasters have been observed due to global environmental changes and such disasters brings both temporary and lasting financial damages to tourism, which is seriously critical to tourism destinations, ESSAND will do disaster management research to clarify, prevent and prepare potential disasters and their negative impacts to tourism destinations using advanced data science-based disaster-related scientific and management methods.

These two main study areas are to be pursued with international and interdisciplinary research collaborations and post-graduate education of international standards

**Objective:**

- A. Educational outcomes - advanced human resources with splendid knowledge and skills in related fields who can serve as higher governmental officials, technical influencers to enterprises and communities, and academic researchers and educators in related fields
- B. Research outcomes - indispensable knowledge and wisdom of environment and disaster for sustainable tourism development
- C. Social outcomes - valuable information, evidence, and suggestions to policymakers of environmental and disaster issues



## Course Synopsis and Methodology

### Study Plan

#### Plan A-1

Total credits: 36

- Course Works (2 courses)            S/U    credits
- Pre-Research Course (2 courses)   S/U    credits
- Thesis                                        36    credits

#### Plan A-2/1

Total credits: 36

- Course Works (4 courses)            12        credits
- Course Works (1 courses)            S/U        credits
- Thesis                                        24        credits

#### Plan A-2/2

Total credits: 36

- Core Courses (5 courses)            15        credits
- Elective Course (1 courses)            3        credits
- Special Studies (1 courses)            S/U        credits
- Thesis                                        18        credits

### Course Content/Study Topic

#### 1) Core Courses

964-501	Earth System Science
964-502	Data Sciences for Earth Science and Disaster Management
964-503	Disaster Risk Management
964-504	Research Methodology
964-505	Scientific Tools for Research

#### 2) Elective Courses

##### 2.1) Earth Science Module

964-511	Geo-Mechanics Characterization
964-512	Exploration Geophysics
964-513	Environmental Modeling and Management
964-514	Marine Biotechnology
964-515	Environmental Toxicology
964-516	Selected Topic of ESS & NDM II
979-531	Advanced Remote Sensing

##### 2.2) Disaster and Management Module

964-521	Hazard Mitigation
964-522	Investing in environmental and disaster management
964-523	Life Cycle Sustainability Assessment
964-524	Selected Topic of ESS & NDM I

979-572	Policy Planning and Participatory Approach
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## 2.3) Technology and Technique Module

964-531	Sensor Technology and the Internet of Things
964-532	Data Management and Knowledge Discovery
964-533	Selected Topic of ESS & NDM III
979-532	Geographic Information System

## 2.4) Pre-Research Module

964-601	Special Study I
964-602	Special Study II

## 3) Thesis

964-701	Thesis
964-702	Thesis
964-703	Thesis

- All courses are conducted in English. Selection of course works is advised by the thesis advisor.

**Graduation Conditions:**

## Plan A-1

- Have completed all required courses of the curriculum.
- Have passed the thesis proposal defense.
- Have passed the thesis final defense.
- Have the thesis published or have obtained acceptance of publication for a paper in a journal listed in the ISI or Scopus databases.
- Have satisfied one of the following English proficiency requirements:
  - IELTS test score 5.5 or higher overall for the Academic Test or
  - TOEFL test score:
    - For the TOEFL IBT 59 or higher or
    - For the TOEFL Paper-Delivered Testing:
      - Reading 10 or higher, and
      - Listening 9 or higher, and
      - Writing 18 or higher
    - For the TOEFL ITP:
      - Listening Comprehension 50 or higher, and
      - Structure & Written Expression 60 or higher, and
      - Reading Comprehension 52 or higher
  - CU-TEP score not less than 75
  - PSU-TEP score not less than 68

## Plan A 2-1

- Have completed all required courses of the curriculum with GPA > 3.00.
- Have passed the thesis proposal defense.
- Have passed the thesis final defense.

- Have the thesis published or have obtained acceptance of publication for a paper in a journal listed in the first two upper groups of the TCI database.
- Have satisfied one of the following English proficiency requirements:
  - IELTS test score 5.5 or higher overall for the Academic Test or
  - TOEFL test score:
    - For the TOEFL IBT 59 or higher or
    - For the TOEFL Paper-Delivered Testing:
      - Reading 10 or higher, and
      - Listening 9 or higher, and
      - Writing 18 or higher
    - For the TOEFL ITP:
      - Listening Comprehension 50 or higher, and
      - Structure & Written Expression 60 or higher, and
      - Reading Comprehension 52 or higher
  - CU-TEP score not less than 75
  - PSU-TEP score not less than 68

#### Plan A 2-2

- Have completed all required courses of the curriculum with GPA > 3.00.
- Have passed the thesis proposal defense.
- Have passed the thesis final defense.
- Have the thesis published or have obtained acceptance of publication for a paper in a full paper of international proceeding.
- Have satisfied one of the following English proficiency requirements:
  - IELTS test score 5.5 or higher overall for the Academic Test or
  - TOEFL test score:
    - For the TOEFL IBT 59 or higher or
    - For the TOEFL Paper-Delivered Testing:
      - Reading 10 or higher, and
      - Listening 9 or higher, and
      - Writing 18 or higher
    - For the TOEFL ITP:
      - Listening Comprehension 50 or higher, and
      - Structure & Written Expression 60 or higher, and
      - Reading Comprehension 52 or higher
  - CU-TEP score not less than 75
  - PSU-TEP score not less than 68

### **Application Qualifications**

#### Plan A-1

- The applicant must hold:
  - A bachelor's degree within the 1st quartile or
  - Must have an experience in publications and/or a good quality of senior project.
  - The applicant must submit a TOEFL or an IELTS or official English test scores.



- Other applicants may be admitted on conditions that they receive approval from the program committee.
- The applicant must submit a TOEFL or an IELTS or official English test scores.

Plan A-2-1

- The applicant must hold:
  - A bachelor's degree within top 50 percent
  - A graduate diploma with cumulative GPA not less than 3.50 or
  - A graduate certificate with cumulative GPA not less than 3.75 or
  - After entering the program, the GPA in the first semester must not be less than 3.25; Otherwise, the student has to switch to Plan A-2/2 degree program
  - The applicant must submit a TOEFL or an IELTS or official English test scores.
  - Other applicants may be admitted on conditions that they receive approval from the program committee.
- The applicant must submit a TOEFL or an IELTS or official English test scores.

Plan A-2-2

- The applicant must hold
  - A bachelor's degree within three upper quartiles
  - A graduate diploma with cumulative GPA not less than 3.25 or
  - A graduate certificate with cumulative GPA not less than 3.50 or
  - Other applicants may be admitted on conditions that they receive approval from the program committee.
- The applicant must submit a TOEFL or an IELTS or official English test scores.

**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.
- A copy of citizen ID card/passport
- Please submit a copy of each of your publication(s), if any.

**Contacts**

Dr. Avirut Puttiwongrak

Associate Dean for Research and Graduate Studies

D.Phil. (Environment and Resource System Engineering)

Phone: 076-276-431

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**Curriculum Coordinator**

Miss Aatitaya Neamsaard

Higher Educational Officer

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

### Course Detail

#### Master of Science, Program in Food Science and Technology (International)

<b>Course title:</b>	Master of Science in Food Science and Technology (International)
Language of Instruction	English
Academic Institute	Department of Food Technology, Faculty of Science, Chulalongkorn University, Bangkok THAILAND
Web address (for the institution, faculty, school or course)	<a href="https://www.chula.ac.th">https://www.chula.ac.th</a> <a href="http://web.sc.chula.ac.th">http://web.sc.chula.ac.th</a> <a href="http://foodtech.sc.chula.ac.th/studyprogram/interen/">http://foodtech.sc.chula.ac.th/studyprogram/interen/</a>
<b>Academic Institution:</b>	Chulalongkorn University
<b>Duration:</b>	2 years (August 2020 – May 2022)

#### Background of and Rational

Thai Food industry is growing and expanding their trading internationally as well as more overseas food companies are seeking to invest in Thailand due to attractive tax benefits and a good supporting investment package from Thai government. Therefore, a high number of food science and technologists are required in order to fulfill the need of high skill employees in terms of research and development, processing and quality control and safety. The soft skill and language of the employees are important for the food industry. Therefore, knowing English and understanding the career knowledge in English environment is also important. These needs of stakeholders are then contributed to the MSc program in Food Science and Technology at Department of Food Technology, Faculty of Science, Chulalongkorn University. The course has been designed for Thai and non-Thai residents to be able to gain their high skill and deep knowledge in food processing, food research and development, food quality control and safety. The course is taught in English induration of minimum 2 years. The student has to register in thesis for 18 credits for research skill development. The graduates are able to be employed in food industry for both Thai and internationally as well as government organization that deal with international trading or law for food industry. The program also emphasizes, both in comprehensive knowledge and practical skills, in-depth knowledge in areas of food science and technology. Since 1984, the establishment of Department of Food Technology has been progressively fruitful and achieved its goal to produce high quality graduates at any educational degree to support government institutions and Thai food industries with commitment to become the “Pillar of the Kingdom” as determinedly declared by Chulalongkorn University.

#### Objectives

The M.Sc. program in Food Science and Technology intends to produce graduates in accordance with the Chulalongkorn University’s key desired characteristics, however, our student shall have characteristics in specific major learning outcomes as following:

- Students should have well-rounded, systematic and in-depth knowledge in food science and technology (emphasize on product and processing development, food properties and food processing and engineering) and having the ability to apply it to research and development in the industrial scale.



- Students should have ability to analyze topics in a rational way and being able to think creatively.
- Students should have ability to solve problems in a systematic way using knowledge pertaining to food science and technology.
- Students should be able to demonstrate professional skills and practical skills for food industry (management of production, quality control, research development and process design) including communication skills, critical thinking, problem solving and life-long learning skills.

Therefore the specific objectives for MSc graduate in Food Science and Technology (International Program) are;

- To produce graduate who have high academic knowledge and skill in food science and technology
- To build new knowledge in food science and technology for using to serve the needs of the country

### Study Plan

Our Graduate students should have systematic and in-depth knowledge in food science and technology, emphasizing on product and processing development, food properties and food processing and engineering. The curriculum structure of M.Sc. program in Food Science and Technology comprises of three major groups of modules, accounting for a total credit of 39 credits, as follows:

1. <b>Required modules</b>	<b>9</b>	<b>Credits</b>
1.1 Statistical Methods for Food Research		
1.2 Instrumentation Techniques in Food Research		
1.3 Individual study I		
1.4 Seminar I		
1.5 Seminar II		
2. <b>Elective modules</b>	<b>12</b>	<b>Credits</b>
3. <b>Thesis</b>	<b>18</b>	<b>Credits</b>
	<b>Total 39</b>	<b>Credits</b>
	<b>2-4 years course</b>	

A total credit of 39 CU credits is required for completion of the M.Sc. program in Food Science and Technology at Chulalongkorn University. The study program (annual plan) is demonstrated as follows.

<b>Year 1</b>	<b>Semester 1</b>	<b>credits</b>
2314672	Instrumentation Techniques in Food Research	3.0
2314xxx**	Electives	6.0
<b>TOTAL</b>		<b>9.0</b>

<b>Year 1</b>	<b>Semester 2</b>	<b>credits</b>
2314665	Statistical Methods for Food Research	3.0
2314698	Individual Study I	1.0
2314xxx**	Electives	6.0
2314813	Thesis	3.0
<b>TOTAL</b>		<b>13.0</b>

<b>Year 2</b>	<b>Semester 3</b>	<b>credits</b>
2314703	Seminar I	1.0
2314813	Thesis	10.0
<b>TOTAL</b>		<b>11.0</b>

<b>Year 2</b>	<b>Semester 4</b>	<b>credits</b>
2314704	Seminar II	1.0
2314813	Thesis	5.0
<b>TOTAL</b>		<b>6.0</b>

<b>GRAND TOTAL</b>		<b>39.0</b>
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4. Thesis modules 18.0 credits

\*\*For Elective Food Science and Technology Module, students must select the available module(s) (2314XXX) offered in that academic year from the following list:

1. 2314565 Thermal Processing of Foods (2.0 credits)
2. 2314566 Food Chilling and Freezing (2.0 credits)
3. 2314568 Physical Properties of Foods (3.0 credits)
4. 2314572 Food Product Design (3.0 credits)
5. 2314573 Applied Food Microbiology (3.0 credits)
6. 2314574 Research and Development of Functional Foods (3.0 credits)
7. 2314576 Drying Technologies in Food Processing (2.0 credits)
8. 2314670 Food Phenolics (2.0 credits)
9. 2314671 Chemical and Physical Changes in Food (3.0 credits)

10. 2314673 Packaging of Food Products credits)	(3.0
11. 2314699 Individual Study II	(1.0 credits)
12. 2314501* Basic Food Processing	(3.0 credits)
13. 2314502* Basic Food Microbiology credits)	(3.0
14. 2314503* Basic Food Chemistry	(3.0 credits)

\*Only for students who are not graduated from B.Sc. in Food Science and Technology or Food Technology or Ago-Industry and they are basic modules for S/U pass but not account credits for completion of degree.

### **Graduation Conditions;**

For graduation requirements, students must have a total time of study not exceed 4 academic years. All modules stated in the curriculum must be completed with a minimum 3.00 GPAX of the whole program.

Student also is required to propose thesis proposal within 2 academic years, starting from the first semesters they enroll in the program and defend the thesis within 4 academic years, starting from the first semesters they enroll in the program. Student is required to have at least one proceedings or publication prior to request for thesis defending.

Therefore, for completion of the program, student need to have minimum of 3.00 GPAX and pass thesis examination and submit thesis with proceedings or publication to the graduate school.

### **Admission process to the program**

1. Applicants must hold a Bachelor of Science in Food Technology or related fields. For other related degree holders, an approval from the Academic Program Subcommittee is required. Students completing their eligible degrees in the last semester can also apply.
2. The applicants who are from other areas not Food Technology or Food Science or Food Science and Technology must enroll in the basic food technology subjects (Food Processing, Food Microbiology, and Food Chemistry) that the department graduate program administration committee will consider for a particular student.

### **Documents required for application**

1. Application form and a concept proposal (800-1000 words) with photo attached
2. TOEFL or IELTS scores or CU-TEP (for those who do not have TOEFL or IELTS score)  
Candidates whose first language is not English must undertake a proper English proficiency test and meet the following requirement:
  - A TOEFL score of 530 (paper-based) or 197 (computer-based) or 71 (internet-based) or higher
  - An IELTS score of 6.0 or higher.
  - CU-TEP score equivalent to TOEFL score of 530 <http://www.atc.chula.ac.th>
3. Three sealed recommendation letters
4. Academic transcript (In English) and certification of graduation of Bachelor degree.
5. Copy of passport
6. Applicant's CV



All documents should be sent to the secretariat of the program. The committee of M.Sc. in Food Science and Technology will consider the application and documents and accept as M.Sc. candidate. The selected students will be notified by website of graduate department of Chulalongkorn University as well as informed by the secretariat of the M.Sc. Program.

**Timetable of admission**

First Semester (Start in August)

March to May

Second Semester (Start in January)

September to October

**Contact:**

Assoc. Prof. Dr. Chaleeda Borompichaichartkul

Department of Food Technology, Faculty of Science

Chulalongkorn University, Phayathai Road, Patumwan, Bangkok 10330 Thailand.

Phone: +662-2185518, Fax +662-254-4314

Email: Chaleeda.b@chula.ac.th, chaleedab@hotmail.com

Website: <http://foodtech/ac/chula.ac.th/en/>

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

**Course Detail**  
**Master of Science Program in Agriculture Biotechnology**

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

**Objectives:**

To offer master degree courses in Agricultural Biotechnology.

To apply advanced knowledge in Agricultural biotechnology for agriculture improvement.

**Course Synopsis and Methodology:**

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

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

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

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

**Course Description**

- 110501 Agricultural Biotechnology Seminar I 1(0-2-1)**  
 The first interpretation, presentation and discussion on research topics in agricultural biotechnology, industrial biotechnology, and current knowledge in agricultural biotechnology
- 110502 Agricultural Biotechnology Seminar II 1(0-2-1)**  
 The second interpretation, presentation and discussion on research topics in agricultural biotechnology, industrial biotechnology, and current knowledge in agricultural biotechnology

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

#### **Course Content**

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

#### **Graduation Conditions:**

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



### **Applicant Qualifications**

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

### **Document Required**

#### 1. Entrance requirements

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

#### 2. Document for application

##### 2.1 Postgraduate Application Form

##### 2.2 A recent photograph.

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

##### 2.4 Copy of academic transcript.

##### 2.5 Copy of national or official identification card or passport.

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

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

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

### **Contact:**

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

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

## Course Detail

### Master of Science Program in Postharvest Technology and Innovation

#### (M.Sc. Postharvest Technology and Innovation)

**Master Degree:** Master of Science (Postharvest Technology and Innovation)

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

**Duration:** 2 academic years (24 August 2020 – August 2022)

**Background and Rational:**

Postharvest losses refer to measurable quantity and quality loss of food crops at harvest, storage, transportation, processing, marketing and preparation before consumption. It occurs throughout the value chain, as a result of technical and managerial setbacks during harvest, handling, transportation, processing, packaging, marketing, and distribution. On the other hand, investment efforts made to save food after harvest usually cost less and are less harmful to the environment. A minimum postharvest losses reduction can potentially reduce production cost. Postharvest losses impact on environment and climate following unnecessary emissions of greenhouse gases produced during production, processing, and transportation of fruits and vegetable which ultimately end into loss. Postharvest Technology and Innovation program aims to transfer the knowledge and innovation to all students who may use that knowledge for improving income and nutrition status of households, food security, and qualities of agricultural products in the supply chain. Application of postharvest technology and innovation on horticultural crops is an important effort for improving food and nutrition security and raised income in many countries.

The school of Agro-Industry has been established to focus the studies and research on increasing the value of agricultural produces throughout the whole chain. The lecturers in our school gain much experience from the research work and ready to transfer to the students. Examples of our major studies include postharvest technology for fruit, vegetables, ornamental, cereal grains and legumes; packaging development and application; quality and food safety management; logistics and supply chain management; and utilization of agricultural waste etc.,

**Objective:**

The aims of this Program are to educate the student to have knowledge, expertise, and potency in postharvest technology and innovation and to be able to apply this knowledge for prolonging shelf life of agricultural produce, reducing of postharvest losses, driving economy and development of country, and enhancing the national and international competitiveness.

**Course Synopsis and Methodology:**

Course features both theoretical and practical learning which is divided into 3 groups: core courses, elective courses in 4 subgroups (Postharvest Technology and Innovation, Food Science and Technology, Agricultural Technology, and Management), and Thesis/Independent Study.

**Course Content/Study Topic:****Study Plan for M.Sc. Postharvest Technology and Innovation for Academic Year 2020****Plan A1 (Research only)**

Year 1					
Semester 1 (Aug-Dec, 2020)			Semester 2 (Jan-May, 2021)		
1407891	Thesis	6	1407891	Thesis	12
			1407748	Seminar 1	0
	Total (credits)	6		Total (credits)	12

Year 2					
Semester 1 (Aug-Dec, 2021)			Semester 2 (Jan-May, 2022)		
1407891	Thesis	12	1407891	Thesis	6
1407846	Seminar 2	0			
	Total (credits)	12		Total (credits)	6

*\* Submit and present thesis proposal within Dec, 2020 and start conducting research from Jan, 2021 to April, 2022. Defend thesis within May, 2022*

**Plan A2 (Course works and research)**

Year 1					
Semester 1 (Aug-Dec, 2020)			Semester 2 (Jan-May, 2021)		
1407700	Agricultural Research Methodology	3	1407753	Postharvest Technology and Innovation	3
1407738	Postharvest Biology of Plant	3	1407749	Seminar 1	1
140xxxx	Elective 1	1	140xxxx	Elective 3	3
1407731	Advanced Instruments for Postharvest Quality Determination	3	140xxxx	Elective 4	3
140xxxx	Elective 2	3	1407892	Thesis	3
	Total (credits)	13		Total (credits)	13

Year 2					
Semester 1 (Aug-Dec, 2020)			Semester 2 (Aug-Dec, 2020)		
1407847	Seminar 2	1	1407892	Thesis	3
1407892	Thesis	6			
	Total (credits)	10		Total (credits)	3

*\* Submit and present thesis proposal within May, 2021 and start conducting research from June, 2021 to April, 2022. Defend thesis within May, 2022.*



**Plan B** (Course works and research by independent study)

Year 1					
Semester 1			Semester 2		
1407700	Agricultural Research Methodology	3	1407753	Postharvest Technology and Innovation	3
1407738	Postharvest Biology of Plant	3	1407749	Seminar 1	1
140xxxx	Elective 1	1	140xxxx	Elective 4	3
140xxxx	Elective 2	3	140xxxx	Elective 5	3
140xxxx	Elective 3	3	1407752	Farm and Industrial Visit	1
	Total (credits)	13		Total (credits)	11

Year 2					
Semester 1			Semester 2		
1407847	Seminar 2	1	1407896	Independent Study	6
1407755	Internship	5			
	Total (credits)	6		Total (credits)	6

**Courses****1. Core courses**

1407700	Agricultural Research Methodology	3(3-0-6)
1407738	Postharvest Biology of Plant	3(2-3-5)
1407753	Postharvest Technology and Innovation	3(2-3-5)
1407748	Seminar 1	0(0-3-1)
1407846	Seminar 2	0(0-3-1)
1407749	Seminar 1	1(0-3-1)
1407847	Seminar 2	1(0-3-1)
1407731	Advanced Instruments for Postharvest Quality Determination	3(2-3-5)

**2. Elective courses can be divided into 3 groups of subjects. Student can choose.****2.1) Postharvest Technology and Innovation**

14057xx	Quality and Food Safety Management	3(3-0-6)
1407734	Postharvest Diseases	3(2-3-5)
1408703	Packaging Innovation	3(2-3-5)
1407744	Postharvest Management of Fruits and Vegetables	3(2-3-5)
1407733	Postharvest Management of Cereal Grains, Legumes and Oilseeds	3(2-3-5)
1407746	Postharvest Technology of Ornamental Crops	3(2-3-5)
1407761	Non-destructive Evaluation for Agricultural Crops	3(2-3-5)
1407848	Postharvest Pest Management	3(3-0-6)
1407732	Postharvest Engineering	3(2-3-5)
1407735	Selected Topics in Postharvest Technology and Innovation	1(1-0-2)
1408704	Packaging for Transport and Distribution	3(2-3-5)
1409701	Agricultural Logistics Management	3(3-0-6)
1407755	Internship	5(0-40-6)
1407752	Farm and Industry Visit	1(0-6-1)
1407756	Agri-Business Management	3(3-0-6)

**2.2) Food Science and Technology**

1403746	Food Processing Innovation	3(2-3-5)
1406770	Consumer Trends and Technology	3(3-0-6)
1402814	Functional Foods and Nutraceuticals	3(3-0-6)

**2.3) Agricultural Technology**

1407701	Principle of Horticulture	3(3-0-6)
1407702	Agricultural and Environmental Science	3(3-0-6)
1407703	Principle of Floriculture	3(3-0-6)
1407704	Crop Technology and Innovation	3(3-0-6)

**2.4) Management**

1202701	Economic Analysis for Global Business Management	3(2-3-5)
1203721	Marketing Management	3(3-0-6)
1203707	Financial and Accounting Management	3(3-0-6)
1209731	Logistics and Supply Chain Analytics	3(3-0-6)
1209732	Inventory and Distribution Management	3(3-0-6)

**3. Thesis**

1407891	Thesis	36(0-108-36)
1407892	Thesis	12(0-36-12)
1407896	Independent Study	6 (0-18-6)

**1. Core courses****1407700 Agricultural Research Methodology 3(3-0-6)**

Principles of agricultural research; research methodology for postharvest technology; database on scientific research; research ethics; citation management; research reading and interpretation of research data; research planning and management; conceptual framework; research design; data collecting and statistical analysis of data; data explanation, literature review; writing a research report.

**1407738 Postharvest Biology of Plant 3(3-0-6)**

Nature and structure of harvested product; metabolic processes, respiration and water losses of harvested products; ethylene and other plant hormones; quality and maturity; pre- and postharvest factors affecting fruit and vegetable quality; physiological and biological changes during storage; biological and environmental factors influencing deterioration; plant senescence.

**1407753 Postharvest Technology and Innovation 3(2-3-5)**

Postharvest losses of field crops and perishable crops; quality safety and standard; maturity indices; harvesting technology; cooling; postharvest treatment; storage and controlled atmosphere; packaging technology; cool chain management; transport and distribution; postharvest technology and innovation; eco-friendly technology.

**1407748 Seminar 1 0(0-3-1)**

Literature search and preparation; presentation and discussion; writing academic report.



- 1407846 Seminar 2 0(0-3-1)**  
Academic presentation and discussion on current interests; progressive report on thesis research.
- 1407749 Seminar 1 1(0-3-1)**  
Literature search and preparation; presentation and discussion; writing academic report.
- 1407847 Seminar 2 1(0-3-1)**  
Academic presentation and discussion on current interests; progressive report on thesis research.
- 1407731 Advanced Instruments for Postharvest Quality Determination 3(2-3-5)**  
Advanced techniques and analytical instruments for evaluations of physical, chemical and microbial qualities in commodities, e.g. color and texture measurement, microstructure analysis, thermal property determination, spectroscopy, chromatography and non-destructive analysis.

**2. Elective courses can be divided into 3 groups of subjects. Student can choose.**

**2.1) Postharvest Technology and Innovation**

- 1405744 Quality and Food Safety Management 3(3-0-6)**  
Scientific basis for food regulations; national and international food regulations; quality and grade standard; statistical process control; quality assurance; total quality management; quality system in Agro-Industry; GAP, organic agricultural standard; GMP, HACCP, ISO series; implementation of food safety program and auditing; current issues in food safety
- 1407734 Postharvest Diseases 3(2-3-5)**  
Significance; postharvest losses due to biotic and abiotic stresses; postharvest disease initiation and factors affecting postharvest disease development; physiological and biochemical changes following infection; attack mechanisms of the pathogen; defense mechanisms in plant against the pathogen; control of postharvest diseases: cultural, physical, biological and chemical disease suppression practices; integrated approach for controlling postharvest diseases; postharvest diseases of economic commodities.
- 1408703 Packaging Innovation 3(2-3-5)**  
Active, smart and intelligent packaging; innovation of packing and packaging materials; sustainable packaging.
- 1407744 Postharvest Management of Fruits and Vegetables 3(2-3-5)**  
Importance of economic fruits and vegetables; harvesting; quality and food safety management; packing house operation; packaging system; transport and distribution; tracking and traceability; value added products of fruits and vegetables; current issues.



- 1407733 Postharvest Management of Cereal Grains, Legumes and Oilseeds 3(2-3-5)**  
Economic cereal grains, legumes and oilseeds; physiology, structure, composition, and characteristics of grains and seeds; quality and safety standard; pre-harvest management; harvesting practice; postharvest losses; postharvest management; storage; utilization; advances in postharvest technology; current issues.
- 1407746 Postharvest Technology of Ornamental Crops 3(2-3-5)**  
Postharvest physiology and biochemistry; postharvest management of cut flowers and cut foliages; post-production management of potted ornamentals; treatments for improving quality and the longevity of cut flowers; packing house operation and packaging systems; commercial ornamental productions; current issues and application.
- 1407761 Non-destructive Evaluation for Agricultural Crops 3(2-3-5)**  
Conventional methods for produce evaluation; theory and principle of non-destructive evaluation; near infrared spectroscopy (NIR); magnetic resonance imaging (MRI); computerized tomography (CT); electrical impedance spectroscopy (EIS); acoustic technique; image analysis and machine vision system; applications for produce quality attributes evaluation.
- 1407848 Postharvest Pest Management 3(3-0-6)**  
Importance of postharvest pests; crop loss assessment; outbreak forecasting and management decision; cultural, physical, biological and chemical approaches for postharvest pest management; postharvest integrated pest management.
- 1407732 Postharvest Engineering 3(2-3-5)**  
Principles of postharvest engineering; physical and engineering properties of produce; grading and sorting system; thermal and non-thermal processes; cold-storage systems; design of systems and facilities; current issues and trends in postharvest engineering.
- 1407735 Selected Topics in Postharvest Technology and Innovation 1(1-0-2)**  
Discussion and lectures on special aspects or advanced topics in postharvest technology and innovation of produce.
- 1408704 Packaging for Transport and Distribution 3(2-3-5)**  
Packaging types and systems for transport and distribution; shock; vibration; compression; cushion; palletization; packaging pre-shipment testing; packaging technology for transport and distribution.
- 1409701 Agricultural Logistics Management 3(3-0-6)**  
Agricultural supply chain; agricultural forecasting; crop planning and scheduling; warehousing and inventory management for perishable products; transportation management and material handling systems; partnership systems in the agricultural supply chain; information management in the agricultural supply chain.

**1407756\* Agri-business Management 3(3-0-6)**

Agribusiness practices; economics of agriculture; farm finance; international trade; supply chain management; creation of value-added products for domestic and international markets; problems and prospects.

**1407755\* Internship 5(0-40-6)**

National or international internship at the provided organization for specific period of time; report submission and oral presentation.

**1407752 Farm and Industry Visit 1(0-6-1)**

Field trips to farm, packing and processing factory, packaging industry, research institutes or organizations related to postharvest technology and innovation; oral presentation and report submission.

**2.2) Food Science and Technology****1403746 Food Processing Innovation 3(2-3-5)**

Overview of the current food processing technology; fundamental of the novel food processing technology; thermal and non-thermal food processing; the integrated processing technology; industrial application.

**1406770 Consumer Trends and Technology 3(3-0-6)**

Principles of consumer science; consumer behavioral models; consumer perception, learning and memory, motivation, and attitude; consumer decision making process and group influence; effect of income, social class, subculture and culture on consumption; methods of data collection; application of qualitative, quantitative and mixed method for designing and planning of consumer data collection; Use of consumer questionnaires; design and set up consumer study experiments; case study for food industry.

**1402814 Functional Foods and Nutraceuticals 3(3-0-6)**

Definition and classification of functional foods and nutraceuticals; sources, and health benefits of bioactive components; nutraceutical extraction and isolation; impact of processing on the bioavailability of functional and nutraceutical ingredients in foods; novel technology to retain activity in the food; development and marketing of functional foods; efficacy and safety of functional foods and nutraceuticals; functional foods and nutraceuticals regulations.

**2.3) Agricultural Technology****1407701 Principle of Horticulture 3(3-0-6)**

Plant structure and morphology; growth and development of horticultural crops; plant propagation; soil and fertility; environmental factors; vegetable crops, fruit crops, ornamental crops; modern technology in horticulture.



**1407702      Agricultural and Environmental Science      3(3-0-6)**  
 Relationship of agriculture and environment; sustainable and the eco-friendly agriculture; agricultural waste management; agricultural innovations and technology for sustainable production.

**1407703      Principle of Floriculture      3(3-0-6)**  
 Introduction; propagation; temperature; light; water; nutrition; cultural media; plant growth regulation; pest management; postharvest management; greenhouse construction and operations; marketing and business management; current issues.

**1407704      Crop Technology and Innovation      3(3-0-6)**  
 Greenhouse design and technology; plant factory; soilless technology; smart farming; integrated pest technology; current issues.

#### **2.4) Management**

**1202701      Economic Analysis for Global Business Management      3(3-0-6)**  
 Concept of economics and its application and tools; role of economics in managerial decision making; risk analysis; demand analysis and estimation; production analysis and estimation; cost analysis; market structure analysis; pricing theory and practices; trade agreement and corporation in region; business trend forecasting and its effect on country; regional; and global level.

**1203721      Marketing Management      3(3-0-6)**  
 Marketing concepts including consumer behavior; communication and CRM in Digital age focus on the analytical decision-making tools in marketing; customer analysis; market segmentation; target market with positioning; demand forecast analysis; and competitive situational analysis to create a comprehensive strategies and online marketing program for a product and brand; concept of brand building; case studies.

**1203707      Financial and Accounting Management      3(3-0-6)**  
 Accounting concepts and financial reports; recording of accounting transactions; recognition of revenue; expenses; cost of goods sold and inventory; depreciation of fixed assets; liabilities and owners' equities; break-even analysis; projected profit and loss; projected cash flow; projected balance sheet; analysis of company financial reports; evaluation of business performance; case studies.

**1209731      Logistics and Supply Chain Analytics      3(3-0-6)**  
 Analytical techniques for managing logistics and supply chain management; customer services; procurements; distribution centers; inventories and customer demand; optimal routes; distribution centers and networks; safety logistics; related technology and information management for logistics system; techniques for adding value and lowering non-value added activities along logistics system; outsourcing logistics systems; performance measurement; bullwhip effect; other related topics.



**1209732      Inventory and Distribution Management      3(3-0-6)**

Managing inventories and distribution; determination distribution center locations; distribution design; distribution management by product types; roles of distribution center in inventory management as well as logistics and supply chain management; performance measurement in inventory and distribution management; technology and information management for managing inventories and distribution; customer demand and inventory management; other related issues.

**3. Thesis**

**1407891      Thesis      36(0-108-36)**

Research on postharvest technology and innovation of agricultural produce topic pertinent to individual interest under the supervision and approval of advisor and/or co-advisor; research progress; Thesis submission and presentation.

**1407892      Thesis      12(0-36-12)**

Research on postharvest technology and innovation of agricultural produce topic pertinent to individual interest under the supervision and approval of advisor and/or co-advisor; research progress; Thesis submission and presentation.

**1407896\*      Independent Study      6(0-18-6)**

Research in interest topic under the advice of an advising professor; research methodology, the formation of research tools; the statistic applied in the research; the data analysis and the data conclusion; report submission and presentation of Independent Study.

**Graduation Conditions:**

- Complete all required courses
- Thesis oral defense
- Thesis submission
- English language: 40 % MFU-TEP/English score from other sources (see the MFU announcement)
- Publication (s): *Journal (with peer review) or Proceedings in the International Conference or Patent*

**Applicant Qualification:**

Students with a bachelor's degree in Agriculture, Food Science, Biology, Chemistry, Biochemistry, Biotechnology, and related fields with cumulative undergraduate GPA 2.50 and TOFEL score 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 attended institutions
- Evidence of English proficiency, TOEFL exam or others
- Statement of purpose
- Letters of recommendation from referee
- A copy of passport

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

## Course Detail

### Master of Science (Veterinary Public Health)

<b>Course Title:</b>	Master of Science (Veterinary Public Health)
<b>Master Degree:</b>	M.S. (Veterinary Public Health)
<b>Academic Institution:</b>	Veterinary Public Health Centre for Asia Pacific (VPHCAP), Faculty of Veterinary Medicine, Chiang Mai University
<b>Duration:</b>	2 years (June 2020 – May 2022)

### Background and Rational

Master of Science Program in Veterinary Public Health M.S. (Veterinary Public Health), an International Program that is revised from the Master of Veterinary Public Health Program (MVPH) which was a joint program between two Faculties of Veterinary Medicine (Chiang Mai University, Thailand and Freie Universitaet Berlin, Germany). The joint master program had already produced 7 batches of students (academic year 2003 – 2018). The course was established according to Chiang Mai University policy to produce an academic excellence and global citizens. Veterinary Public Health plays an important role on security and safety of food from animal origin in national and international level including animal disease control, transboundary animal diseases and zoonotic diseases which animal-human interface as well as control of food borne diseases, antimicrobial resistant pathogens and hazardous residues along the food production chain. Those veterinary public health tasks are adopted as the learning contents of the course, which promote the national and international strategic plan in sustainable agriculture and food security, the administrative direction of research consequently supported the policy of university and the country in several ways including community academic service, strengthen community sustainable agriculture under Sufficiency Economy Philosophy, promoting arts, culture and religion, local natural resources and environmental conservation. The course provides the students to integrate the knowledge from both lectures and practices according to student centered learning in 21<sup>th</sup> century education. The course also provides the area to exchange academic knowledge and experience between Thai students and international students to allow knowledge transformation in the different country contexts. The network of international alumni from different countries will later on building up the network of food security and food safety in the Asia Pacific region. Moreover, this is the development of current and future workforce in ASEAN community.

Veterinary Public Health Centre for Asia Pacific (VPHCAP), Faculty of Veterinary Medicine, Chiang Mai University, Thailand has established in 2003 as a regional center for graduate education, research and academic services in veterinary public health which emphasized on security and safety of food from animal origin, zoonotic disease control, as well as transboundary diseases in order to strengthen international trade of animals and animal origin products from Southeast Asia and the Greater Mekong Sub-region under WTO-SPS's Agreement. The mission of the centre is to operate the international master degree curriculum for students from Asia Pacific especially Southeast Asia and South Asia region. The course provides students the intellectual knowledge and practice under supervision of university professors and experts from national and international partners such as Freie Universitat Berlin, Germany, Obihiro University of Agriculture and Veterinary Medicine,



Japan, University of Minnesota, USA. The senior experts from international organization such as Food Agriculture Organization of United Nation (FAO), International Livestock Research Institute (ILRI) also are invited for co-teaching. Moreover, the objective of VPHCAP is to build capacity in academic services through training courses and scientific international conferences every year. In 2016, the World Organization for Animal Health (OIE) has designated the VPHCAP as an OIE Collaborating Centre for Veterinary Services Capacity Building under collaboration with Thailand's Department of Livestock Development (DLD). The OIE Collaborating Centre for Veterinary Services Capacity Building aims to be a center for developing and increasing the capacity of Veterinarians who work relates to food safety of animal origin, control of animal disease and zoonotic disease in the Asia Pacific region.

### Objectives

The program is intended to produce high-quality graduates who are able to:

1. Apply epidemiological approach to safety of food of animal-origin.
2. Analyze and assess the risk of epidemic, zoonotic diseases, infectious diseases and understand the import goods condition and food hygiene.
3. Having communication and interpersonal relations intellectual skill to control zoonotic diseases according to international practice.
4. Apply the rules and international regulations of Veterinary Public Health with ethics and integrity, and capable to adjust with the dynamic world.
5. Use Veterinary Public Health discipline to resolve regional problems.

### Course Synopsis and Methodology

Master of Science (Veterinary Public Health) international program aims to produce graduates from Asia countries to have all-round competency in Veterinary Public Health and create the network to control, prevent and resolve diseases caused by epidemic diseases, zoonoses and food hygiene, with an emphasis on quality control and safety of food from animal-origin along the food production including environmental hygiene in region level.

### Study Plan

#### Year 1

Module 1		Credit
VPH701 (652701)	Concepts and Methods of Veterinary Epidemiology	1
VPH702 (652702)	Data Processing and Computing	1
VPH703 (652703)	Introduction to Public Health and Veterinary Public Health	1
VPH704 (652704)	Sanitary and Phytosanitary Requirements	1
VPH705 (652705)	Zoonoses	1
	Elective courses	1
Module 2		Credit
VPH750 (652750)	Risk Analysis	2
VPH751 (652751)	Laboratory Diagnosis	2
VPH752 (652752)	Microbiological Food Safety	2
VPH753 (652753)	Disease Control in Food Chain	1
VPH754 (652754)	Veterinary Public Health Systems Approach	2
VPH755 (652755)	Laboratory Practical	2

	Elective courses	1
<b>Module 3</b>		<b>Credit</b>
VPH706 (652706)	Research Methodology and Scientific Writing	1
VPH707 (652707)	Disease Surveillance and Information Services	2
VPH708 (652708)	Veterinary Public Health Regulatory Tasks	1
VPH709 (652709)	Veterinary Public Health Structure and Legislation	1
	Elective courses	1
<b>Total</b>		<b>24</b>

**Year 2**

		<b>Credit</b>
VPH799 (652799)	Thesis	12
	- Proposal development	-
	- Thesis defense	-
<b>Total</b>		<b>12</b>
1 <sup>st</sup> workshop	Study design and field work launch	-
2 <sup>nd</sup> workshop	Data analysis	-

**Course Content/ Study Topic**

<b>A .Courses work</b>	<b>a minimum of</b>	<b>24 credits</b>
<b>1.1 Required course</b>		<b>21 credits</b>
VPH701 (652701)	Concepts and Methods of Veterinary Epidemiology	1 credit
VPH702 (652702)	Data Processing and Computing	1 credit
VPH703 (652703)	Introduction to Public Health and Veterinary Public Health	1 credit
VPH704 (652704)	Sanitary and Phytosanitary Requirements	1 credit
VPH705 (652705)	Zoonoses	1 credit
VPH706 (652706)	Research Methodology and Scientific Writing	1 credit
VPH707 (652707)	Disease Surveillance and Information Services	2 credits
VPH708 (652708)	Veterinary Public Health Regulatory Tasks	1 credit
VPH709 (652709)	Veterinary Public Health Structure and Legislation	1 credit
VPH750 (652750)	Risk Analysis	2 credits
VPH751 (652751)	Laboratory Diagnosis	2 credits
VPH752 (652752)	Microbiological Food Safety	2 credits
VPH753 (652753)	Disease Control in Food Chain	1 credit
VPH754 (652754)	Veterinary Public Health Systems Approach	2 credits
VPH755 (652755)	Laboratory Practical	2 credits
<b>1.2 Elective courses</b>	<b>a minimum of</b>	<b>3 credits</b>
VPH710 (652710)	Food Technology	1 credit
VPH711 (652711)	Environmental Health	1 credit
VPH712 (652712)	Special Residue Analysis	2 credits
VPH713 (652713)	Regulations, Rules and Requirements for Importing Food into the European Union	1 credit
VPH714 (652714)	Regional Programmes for Veterinary Public Health	1 credit
VPH756 (652756)	Project Planning and Management	1 credit
VPH757 (652757)	Animal Health Economics	1 credit
<b>1.3 Other courses</b>		
VSC752(653752)	Food Safety from Animal Origin	2 credits

VSC753(653753)	Quality Control and Assurance of Food from Animal Origin	2 credits
VSC754(653754)	Veterinary Molecular Epidemiology	2 credits
VSC755(653755)	Update in Zoonotic Diseases	2 credits

**Remark:** Student are able to register the courses from either 1.1.2 or 1.2

### **B. Thesis**

VPH799 (652799)	Master's Thesis	12 credits
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### **Graduation Conditions**

At least 1 publication or acceptance to publish in an international journal listed in ISI, Scopus, IEEE, PubMed or Web of Science databases.

### **Application Qualifications**

#### **General qualifications**

- Hold a bachelor degree in Veterinary Science or equivalent.
- If applicant holds other bachelor that relates to Food Hygiene, will be considered by administrative committee of Master of Science (Veterinary Public Health) Curriculum.
- Demonstrate official proof of English proficiency
  - TOEFL (500 points for paper based, 173 points for computer based, 61 points for iBT) or IELTS Band 5.5 or the English proficiency examination of the graduate school of Chiang Mai University score of at least 65
- Other qualifications will be considered by administrative committee of Master of Science (Veterinary Public Health)

#### **Specific qualifications**

Applicants from the Asia Pacific region.

### **Document Required**

- Two completed application forms
- Two 1 inch, full-face photographs without accessories, less than 6 months old (affixed to the application form).
- A copy of transcript.
- A copy of English test results obtained within last two years, such as TOEFL, IELTS, CMU-eTEGS (must).
- Health Certificate
- Two copies of passport
- Two Letters of recommendation
- A letter of Motivation

### **Contacts:**

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## Course Detail

### Master of Science Program in Dermatology and Dermatosurgery

<b>Course Title:</b>	Master of Science Program in Dermatology and Dermatosurgery (International Program)
<b>Master Degree:</b>	Master of Science (Dermatology and Dermatosurgery)
<b>Academic Institution:</b>	Faculty of Medicine, Rangsit University Institute of Dermatology
<b>Duration:</b>	2 years (August 2020 - May 2022)

### Background and Rational

College of Medicine, Rangsit University and the Institute of Dermatology realized the significance of doctors who have both qualities and morality. The increase in number of doctors who are specialized in the area of dermatology and dermatosurgery as well as doctors who are able to integrate their ideas to create more innovation that could benefit the society are needed.

Therefore, Rangsit University and the institute of dermatology initiated the graduate studies program with approval from the council of Rangsit University to open the master of science in dermatology and dermatosurgery (international program) in this upcoming 2019 academic year.

Hence, Rangsit University has launched this international program of the master of science in dermatology and dermato-surgery to respond to the needs of the society and the economy both in the country and as part of the Asean community.

### Objectives

To provide basic and higher knowledge in dermatology and dermatosurgery, up to the international standard. And also to fulfill the need for a better public health service in dermatology and enhance Medical Ethics and good morale.

### Course Synopsis and Methodology

#### Study plan

- Duration of the course is 2 year. It is composed of 2 semesters per year. Each semester is at least 15 week.

#### Study Program

First Year					
Subject for Study					
1 <sup>st</sup> Semester			2 <sup>nd</sup> Semester		
DDS 605	Basic Dermatology	1 (1-0-2)	DDS 608	Clinical Dermatology II	2 (2-0-4)
DDS 606	Clinical Dermatology I	2 (2-0-4)	DDS 613	Dermatosurgery Practice	3 (0-6-3)
DDS 609	Dermatosurgery	1 (1-0-2)	DDS 603	Dermatology Case Seminar	1 (0-2-1)
DDS	Laser Surgery	1 (1-0-	DDS	Dermatology Journal	1 (0-2-

First Year					
Subject for Study					
610		2)	604	Seminar	1)
DDS	Dermatopathology	2 (2-0-	DDS	Laser Surgery Practice	3(0-6-
611		4)	615		3)
DDS	Pediatric Dermatology	1 (1-0-		Total	10 Units
612		2)			
DDS	Aesthetic Dermatology	1(1-0-			
614		2)			
DDS	Laboratory Investigation	1 (1-0-			
607	in dermatology	2)			
	Total	10			Units
Second Year					
Subject for Study					
1 <sup>st</sup> Semester			2 <sup>nd</sup> Semester		
DDS	Responsibility and	2 (2-0-	DDS....	Clinical Dermatology	1(1-0-2)
601	Ethics in Biochemical	4)		III	
	Sciences Research				
DDS	Statistical Methods in	2 (2-0-	DDS....	Clinical Dermatology	1(1-0-2)
602	Biochemical Sciences	4)		IV	
DDS	Thesis	6(0-18-	DDS....	Photosensitive Skin	1(1-0-2)
699		9)		Diseases	
	Total	10			Units
			DDS....	Autoimmune Skin	1(1-0-2)
				Diseases	
			DDS	Thesis	6(0-18-
			699		9)
				Total	10 Units

**- Thesis plan**

Submit research topic: February 2021

Examination: April 2021

Data collection: August 2021

Thesis defense Examination: February 2022



**Course Content/Study Topic**

Structure of the Curriculum

Participants have to fulfill 40 credits

Subjects included in the course:

- 1) Curriculum subjects      24 Credits
- 2) Elective subjects        4 Credits
- 3) Thesis                      12 Credits
- 4) Additional program      (no Credit)  
(English for Graduate Studies)

**Curriculum subjects:**

DDS 601	Responsibility and Ethics in Bioclinical Sciences Research	2(2-0-4)
DDS 602	Statistical Methods in Bioclinical Sciences	2(2-0-4)
DDS 603	Dermatology Case Seminar	1(0-2-1)
DDS 604	Dermatology Journal Seminar	1(0-2-1)
DDS 605	Basic Dermatology	1(1-0-2)
DDS 606	Clinical Dermatology I	2(2-0-4)
DDS 607	Laboratory Investigation in Dermatology	1(1-0-2)
DDS 608	Clinical Dermatology II	2(2-0-4)
DDS 609	Dermatosurgery	1(1-0-2)
DDS 610	Laser Surgery	1(1-0-2)
DDS 611	Dermatopathology	2(2-0-4)
DDS 612	Pediatric Dermatology	1(1-0-2)
DDS 613	Dermatosurgery Practice	3(0-6-3)
DDS 614	Aesthetic Dermatology	1(1-0-2)
DDS 615	Laser Surgery Practice	3(0-6-3)

Elective subjects:

DDS 621	Dermatology Practice	1(0-2-1)
DDS 631	Contact Dermatitis and Occupational Skin Diseases	1(1-0-2)
DDS 641	Photosensitive Skin Diseases)	1(1-0-2)

DDS 651	Infections in Skin Diseases	1(1-0-2)
DDS 661	Autoimmune Skin Diseases	1(1-0-2)
Thesis		
DDS 699	Thesis	12(0-36-18)

### Graduation Content

Students who will be nominated for a master program in Plan A2 must meet the following qualifications:

1. Students have studied and passed the measurement and evaluation of courses and have passed the English examination according to the announcement of Rangsit University on the standard of English proficiency for their master programs including all other criteria in the program and the requirements of the department that offers the degree.

2. Students must have a cumulative grade point average of not less than 3.00.

3. The thesis or any part of a thesis must be published and accepted for publication in national or international qualified journals in accordance with the notification of the Higher Education Commission on publications for academic dissemination or the article must be presented in a conference where the full paper has been published in the conference proceedings report.

4. Students must not be in a period of disciplinary penalties emphasizing on not eligible for being nominated for a degree granting.

5. Students must follow the process for being nominated for a program degree identified by the university.

### Applicants Qualifications

- 1) Bachelor Degree in Medicine
- 2) No history of legal matters
- 3) No behavioral problem
- 4) No mental health issue
- 5) Medical registration from Medical Council of the country not less than 1 year
- 6) Have to pass Course Committee interview, personality, attitude and recommendation letter will be considered
- 7) Should pass TOEFL score of 500 or computed based of 173 or internet based not less than 60 or IELTS of 5.5 of all module (result of test not more than 2 years). Except for applicants coming from countries with English as their mother language or Thai nationals who studied in accredited International Universities.

### Document Required

1. 4 Photos, size 1 inch (Formal headshot, no graduation gown)
2. Copy of house registration
3. Copy of Identification Card
4. Copy of passport (for foreigner only)
5. ใบพิมพ์ผูกพัน (for Thai only)

6. Professional certified record
7. Medical certificate (use our specific form, signed & stamped by the diagnosed physician)
8. Copy of Medical License certificate
9. Medical practitioner from government sector must provide education/training leave approval letter 3 Letters of recommendation
  - a. From supervisor, applicant's previous academics professor, colleagues
  - b. 1 of 3 letters should be provided by the Dermatologist

**Contacts:**

Bensachee Pattamadilok, M.D. Tel: 095-372-8294, email: [training.inderm@gmail.com](mailto:training.inderm@gmail.com)  
Curriculum office, Institute of Dermatology, 420/7 Rajvithi Road, Thung Phaya Thai sub-district, Rajthevi district, Bangkok 10400, Thailand Tel: 095-372-8294  
[www.rsu.ac.th/medicine](http://www.rsu.ac.th/medicine) , <http://grad.rsu.ac.th> , <http://training.inderm.go.th/msc.html>,  
e-mail: [grad@rsu.ac.th](mailto:grad@rsu.ac.th)

Coodinators

**Mrs. Komkai Somboondee**

**Miss Thitinun Chuangsuwanich**

**Miss Supaporn Mettamit**

\*\*\*Please remind that the application will complete when TICA receive the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible/territories.



### Course Detail

#### Master of Public Health

<b>Course Title:</b>	Master of Public Health (International Program)
<b>Master Degree:</b>	Master of Public Health (M.P.H.)
<b>Academic Institution:</b>	Faculty of Public Health, Mahidol University
<b>Duration:</b>	14 Months: 27 May 2020 – 30 June 2021

#### Background and Rationale

Sophisticated technologies and global warming influence eco-social rapidly which affect natural resources and human living styles. Their consequences are social disparity which broadens social gap. The social disparity determines human health outcomes either directly or indirectly. For illustration, poor pregnant mother will deliver low birth weight newborn due to lack of food and lack of accessibility to maternal care and the low birth weight newborn is prone to infectious diseases and malfunction of endocrine gland due to improper development of endocrine gland and immune system in mother womb. Those conditions can inferior a possibility of Sustainable Development Goals (SDGs) achievements. Community is a key function of SDGs therefore to enhance community competency and to strengthen community health system is likely the better key solution of SDGs.

The Master of Public Health Program intends to produce public health leader in health promoting who satisfying international competencies of public health profession and can effectively work interdisciplinary. Learners in this program will have both cognitive and skill enhancement from in-class and in-field learning method. After studying all courses in the master of public health program, all learner are expected to be able to apply public health knowledge and skills to address community health problem and its impact to global health and vice versa.

The Master of Public Health Program, Mahidol University (MPH) is the first MPH international program in Thailand that starts enrolling students in 1976. The MPH Program was accredited by the Asia Pacific Academic Consortium for Public Health (APACPH) Accreditation Council on September 16, 2017. Up to now, there are more than 2,000 MPH alumni contributing to national and international public health organization, higher educational institution and non-government organization in every world continent.

## Objectives

**The program aims to produce public health profession who is being able to:**

- 1) Demonstrate professional integrity and ethics in public health
- 2) Assess health needs and contributing factors under national and international contexts
- 3) Analyze health system development frameworks that are evidence-based and localized
- 4) Work effectively in partnership with experts from different disciplines in the roles of leaders and team players
- 5) Communicate health messages and use current information technology in public health practice

## Course Synopsis and Methodology

**Study plan** Study Plan B is a 14 months study program.

**Compulsory course:** 6 credits for medical degree learner  
9 credits for non-medical degree learner

**Required courses:** 24 credits for Plan B

**Elective courses:** Not less than 9 credits for Plan B

Student can select elective courses offered by the program or other programs/universities

**Research project** 6 credits for Plan B

### Academic activities (One week per each)

**Week of Orientation:** Before the first semester (End of June)

**Field study:** At the end of first semester (in October)

**Study visit:** At the end of second semester (in February)

## Graduation Requirements

### Plan B

The program will award the Master of Public Health (M.P.H.) degree to student whom completed the degree requirements as following:

1. Completed at least 33 credits of required and elective courses and 6 credits of thematic paper (Plan B)
2. Meet the non-native language proficiency requirement announced by FGS.
3. Pass a comprehensive examination with the result "Passed"
4. Pass a thematic paper examination with the result "Passed"

Other announced requirement for graduation by FGS

[http://www.grad.mahidol.ac.th/grad/academicinfo/pdf/graduation2009\\_en.pdf](http://www.grad.mahidol.ac.th/grad/academicinfo/pdf/graduation2009_en.pdf)

**Course Content/Study Topic**

**Compulsory course**

- PHID 501\* Current Health Situation and Trend
- PHBS 500 Introduction to Statistical Analysis
- PHCH 604 General Public Health (Required for non-public health experience)

\*for non-medical degree

**Required courses**

- PHAD 602 Public Health Administration
- PHBS 638 Fundamental of Biostatistics
- PHEP 602 Principles of Epidemiology
- PHHE 602 Behavioral Sciences and Health Education
- PHID 604 Environmental Health & Occupational Health
- PHID 669 Public Health Skills and Leadership Development
- PHID 704 Research in Public Health
- PHID 702 Evidence-based Public Health

**Elective courses**

- PHHE 636 Public Health Media Development
- PHID 625 Health Impact Assessment and Monitoring
- PHMI 602 Ecology and Epidemiology of Infectious Diseases
- PHID 675 Leadership and Health System Development
- PHID 697 Thematic Paper (Plan B)

**Applicants Qualifications**

1. Applicants must hold at least Bachelor degree or equivalent from accredited institution.
2. Applicants must also have at least one year of experience in the field of public health or a related area (excluding internship).
3. Applicant must have a TOEFL iBT score of at least 64 or IELTS score of at least 5.0 or MU Grad Plus Test of at least 70 or MU ELT of at least 84.

**Document Required**

1. Certified true copy with official stamp and registra's signature of transcript from senior high school and Baccalaureate degree(s) or the highest degree(s) attended.
2. A recent medical examination report.



3. One-page statement describing in your own words your long-range education, professional goal and concept paper of research (A4)
4. Two letters of reference (which are mailed directly to MPH office by the referee).
5. English Proficiency: Either a TOEFL iBT score of at least 64 or IELTS score of at least 5.0 or MU Grad Plus Test of at least 70 or MU ELT of at least 84. The test date must be within the previous 2 years. The applicant must submit TOEFL-iBT or IELTS or MU ELT score into FGS database (More detail check on the link <https://graduate.mahidol.ac.th/inter/prospective-students/?p=news&id=TOEFLiBT-IELTS>)
6. If application has a founding agency, a letter to certify that he/she gets scholarship is needed.
7. If an applicant is self-sponsored, bank statement with the fixed amount of 8,000 USD is needed.
8. A letter certifying work experience.

**Contacts:**

Program Director

Associate Professor Mathuros Tipayamongkhogul, Ph.D.

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### Course Detail

#### Master of Public Health

<b>Course Title:</b>	Master of Public Health (M.P.H.)
<b>Master Degree:</b>	Master of Public Health Program in Border Health Management M.P.H.(Border Health Management)
<b>Academic Institution:</b>	School of Health Science, Mae Fah Luang University
<b>Duration:</b>	Two (2) academic years (24 August 2020 – August 2022)

#### **Background and Rational:**

The Master of Public Health program is designed to produce the graduates who are suitably trained in public health skills, especially sustainable inclusive development for community health, border health management, and prevention and control for emerging and re-emerging diseases. The graduates are also able to systematically, analytically and critically thinking, apply, and integrate in advanced public health sciences and related multidisciplinary fields of knowledge to develop public health projects and solving a complex public health problems. The graduates are desired to be leaders to change agents, and great collaborators for inter-professional teamwork under cross culture society. In addition, the graduates are required in understanding in lived-long learning skill. Finally, all students are trained to conduct their research aiming in creating public health innovation in the context of sustainable development for community health in GMS and ASEAN region and beyond. In addition, all students are trained to work in the community through field study and field training.

#### **Objectives:**

The program aims to produce graduates who are able to:

- Express the academic and research morals and ethics and service mind
- Explain theory, concepts, principles, and guidelines in public health, human resource, financial and organization administration, entrepreneurship, and related interdisciplinary knowledge;
- Analyze and critically think in solving public health problems and integrate the public health and interdisciplinary knowledge to address a complicated public health problem and inclusively developing sustainable community health in local, national, and international levels;
- Create a research or commercial and social innovation, and keep their skill in lifelong learning;
- Express a leadership, change agent mind, collaboration with inter-professional team in cross cultural context; and
- Express the skill in digital and information technology literacy for public health and academic presentation and publication in national and international levels.

#### **Course Synopsis and Methodology:**

##### **Study Plan**

##### **Plan A1 (Research only)**

Year 1					
Semester 1			Semester 2		
1804731*	New Paradigm of Public Health	0	1804790	Thesis	12
1804732*	Research Methodology	0			



1804733*	Applied Biostatistics	0			
Total (credits)		0	Total (credits)		12
Year 2					
Semester 1			Semester 2		
2301791	Thesis	12	2301791	Thesis	12
Total (credits)		12	Total (credits)		12

\*Courses are not counted for credit.

**Plan A2 (Course works and research)**

Year 1					
Semester 1			Semester 2		
1804731	New Paradigm of Public Health	0	1804738	Administration for Health System Development and Health Policy	3
1804734	Research Methodology	2	1804739	Sustainable Inclusive Development for Community Health System	3
1804735	Applied Statistics	3	1804740	Global Health and Border Health	3
1804736	Business Administration and Health Marketing	2	1804741	Environmental and Health Impact Assessment	2
1804737	Applied Epidemiology for Infectious and Emerging Diseases	3	18047xx	Free elective	3
รวม (หน่วยกิต)		<b>10</b>	รวม (หน่วยกิต)		<b>14</b>
Year 2					
Semester 1			Semester 2		
1804890	Thesis	6	1804890	Thesis	6
Total (credits)		6	Total (credits)		6

\*Course is not counted for credit.

**Course Content/Study Topic**

- |  |                  |
|--|------------------|
| <b>1) Pre-requisite</b>                                | <b>0 credit</b>  |
| - 1804731 New Paradigm of Public Health                | 0 credit         |
| - 1804732 Research Methodology                         | 0 credit         |
| - 1804733 Applied Biostatistics                        | 0 credit         |
| <b>2) Core courses</b>                                 | <b>8 credits</b> |
| - 1804734 Research Methodology                         | 2 credits        |
| - 1804705 Applied Biostatistics                        | 3 credits        |
| - 1804706 Business Administration and Health Marketing | 2 credits        |



<b>3) Professional courses</b>	<b>14 credits</b>
- 1804737 Applied Epidemiology for Infectious and Emerging Diseases	3 credits
- 1804738 Administration for Health System Development and Health Policy	3 credits
- 1804739 Sustainable Inclusive Development for Community Health system	3 credits
- 1804740 Global Health and Border Health	3 credits
- 1804741 Environmental and Health Impact Assessment	2 credits
<b>4) Free elective courses</b>	<b>3 credits</b>
<b>(3 credits selected from the following courses)</b>	
- 1804742 Seminar in Public Health Research	3 credits
- 1804743 Applied Epidemiology of Non-infectious Diseases	3 credits
- 1804744 Applied Health Promotion for Quality of Life	3 credits
- 1804745 Ethnic Minority and Vulnerable Populations Health	3 credits
<b>5) Thesis (Depends on the plan)</b>	
- 1804790 Thesis (Plan A1)	36 credits
- 1804890 Thesis (Plan A2)	12 credits

#### **Graduation Conditions**

1. Plan A1; Propose the thesis proposal and pass the examination of defending thesis and publish manuscript in academic journal at level that the university requires including passing the English Proficiency Test that the university requires
2. Plan A2; Complete the course and get GPAX not less than 3.00, propose the thesis proposal and pass the examination of defending thesis, publish manuscript in academic journal at level that the university requires or present proceeding at the academic conference including passing the English Proficiency Test that the university requires  
Moreover, research and proceeding from plan A1 and plan A2 plan must pass the requirement of the university in the health science program.
3. Passing the English Proficiency Test from the university or other institutions that the university requires.
4. In case of failing in no.4, students must enroll in Academic English for Grading Studies Course and pass the examination from this course

#### **Applicant Qualifications:**

- Hold a Bachelor's degree in health sciences such as public health, medical doctor, dentistry, nursing, pharmacy, medical technology and/or related area with GPA at least 2.50 point;
- Pass the program admission examination;

- In case of having GPA less than 2.50, the applicant must have a work experience at least 2 years which need a certification from the head of organization.

**Document required:**

- Statement of purpose, documenting the applicant's reasons for pursuing a Master's degree in this field of study and his/her related background and experience
- Physical examination form from a doctor (certification)
- Passport
- Recent 1-inch photograph

**Contact:**

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**Course Detail**  
**Master of Science (Nursing Science)**

<b>Course Title:</b>	Master of Nursing Science
<b>Master Degree:</b>	Master of Nursing Science (M.N.S.)
<b>Academic Institution:</b>	Faculty of Nursing, Chiang Mai University
<b>Duration:</b>	2 years (June 2020 – May 2022)

The curriculum of the Master of Nursing Science (International Program) focuses on the development of nursing knowledge with the intention to response to the changing of health and society, and the advancement in health science and technology. The program also focuses on ethics principles and virtues, collaboration and creation of academic networking within international education organizations, and knowledge exchange under the diversity of educators and learners from various countries.

**Objectives:**

<b>Field of Nursing Administration</b>	<b>Field of Adult and Gerontological Nursing and Field of Maternal and Child Nursing</b>
1. Have in depth knowledge in nursing science, theories and concepts related to health and nursing administration, and be able to integrate knowledge from nursing science and other related sciences in nursing administration practice effectively.	1. Have in depth knowledge in nursing science, theories and concepts related to health and adult nursing or maternal and child nursing, and be able to integrate knowledge from nursing science and other related sciences in adult nursing or maternal and child nursing practice effectively.
2. Be able to conduct research to contribute to the body of knowledge and apply the research results into practice in nursing administration.	2. Be able to conduct research to contribute to the body of knowledge and apply the research results into practice in adult nursing or maternal and child nursing.
3. Have abilities in systematic critical thinking, planning and solving problems in nursing administration, using skills in teamwork and cooperation with the health care team and related persons.	3. Have abilities in systematic critical thinking, planning and solving health problems of adult clients or mothers and children, using skills in team-working and cooperation with the health care team and related persons.
4. Be a leader in both academia and the profession, be able to communicate and transfer knowledge and academic information using appropriate methods, and be able to make creative changes and support others to develop their professional career continuously.	4. Be a leader in both academia and the profession, be able to communicate and transfer knowledge and academic information using appropriate methods, and be able to make creative changes and support others to develop their professional career continuously.
5. Have virtue and morality, have responsibility for society, have leadership to identify rights and communicate worthy thought to society, be able to solve the complex ethical problems in academic or nursing administration context.	5. Have virtue and morality, have responsibility for society, have leadership to identify rights and communicate worthy thought to society, be able to solve the complex ethical problems in academic or adult nursing or maternal and child nursing context.
6. Have full responsibility for self-learning and seek knowledge while studying.	6. Have full responsibility for self-learning and seek knowledge while studying.



**Course Synopsis and Methodology:**  
**Study plan:**

*Study Plan (Plan A Type A2)*  
**1. Field of Nursing Administration**

**First Year**

1 <sup>st</sup> semester		Credit	2 <sup>nd</sup> semester		Credit
562700	Concepts and Theories in Nursing	2	558739	Management of Health Care and Nursing	2
562703	Health System and Nursing Leadership	2	558742	Quality and Outcome Management in Health Care and Nursing	2
562708	Statistics for Nursing Research	2	558748	Practicum in Nursing Administration 1	3
562715	Research Methodology in Nursing	2	558752	Human Resource Management in Health Service System	2
562702	Evidence-Based Practice	1		Academic Seminar 1	
<b>Total</b>		<b>9</b>		<b>Total</b>	<b>9</b>

**Second Year**

1 <sup>st</sup> semester		Credit	2 <sup>nd</sup> semester		Credit
558749	Practicum in Nursing Administration 2	3	562799	Master's Thesis	6
	Elective	3			
562799	Master's Thesis	6			
	Proposal submission				
	Academic Seminar 2				
<b>Total</b>		<b>12</b>		<b>Total</b>	<b>6</b>

**Total 36 Credits**

**2. Field of Maternal and Child Nursing**

**First Year**

1 <sup>st</sup> semester		Credit	2 <sup>nd</sup> semester		Credit
562700	Concepts and Theories in Nursing	2	560722	Advanced Pathophysiology and Pharmacology in Maternal and Child Nursing	3
562703	Health System and Nursing Leadership	2	560723	Advanced Maternal and Child Nursing	3
562708	Statistics for Nursing Research	2	560724	Advanced Nursing Practicum in Mothers and Children 1	3
562715	Research Methodology in Nursing	2		Academic Seminar 1	
562702	Evidence-Based Practice	1			
<b>Total</b>		<b>9</b>		<b>Total</b>	<b>9</b>

**Second Year**

1 <sup>st</sup> semester		Credit	2 <sup>nd</sup> semester		Credit
560725	Advanced Nursing Practicum in Mothers and Children 2	3	562799	Master's Thesis	6

	Elective	3			
562799	Master's Thesis	6			
	Proposal submission				
	Academic Seminar				
	<b>Total</b>	<b>12</b>		<b>Total</b>	<b>6</b>

**Total 36 Credits**

### 3. Field of Adult and Gerontological Nursing

#### First Year

1 <sup>st</sup> semester		Credit	2 <sup>nd</sup> semester		Credit
562700	Concepts and Theories in Nursing	2	561743	Advanced Pathophysiology and Pharmacology in Adult and Older Adult Nursing	3
562703	Health System and Nursing Leadership	2	561744	Advanced Nursing Care in Adults and Older Adults	3
562708	Statistics for Nursing Research	2	561747	Advanced Nursing Practicum in Adults and Older Adults 3	3
562715	Research Methodology in Nursing	2		Academic Seminar	
562702	Evidence-Based Practice	1			
	<b>Total</b>	<b>9</b>		<b>Total</b>	<b>9</b>

#### Second Year

1 <sup>st</sup> semester		Credit	2 <sup>nd</sup> semester		Credit
561748	Advanced Nursing Practicum in Adults and Older Adults 4	3	562799	Master's Thesis	6
	Elective	3			
562799	Master's Thesis	6			
	Proposal submission				
	Academic Seminar 2				
	<b>Total</b>	<b>12</b>		<b>Total</b>	<b>6</b>

**1. Total 36 Credits**

#### Course Content/Study Topic:

##### 7.2.1 Type 2 (Plan A Type A 2)

Degree Requirements	Total	a minimum of	36	credits
<b>A. Course work</b>		<b>a minimum of</b>	<b>24</b>	<b>credits</b>
1. Graduate Courses		a minimum of	24	credits
1.1 Field of concentration courses		<b>a minimum of</b>	<b>21</b>	<b>credits</b>
1.1.1 Required courses			21	credits
<u>Core courses</u>			9	credits
562700 Concepts and Theories in Nursing			2	credits
562702 Evidence-Based Practice			1	credit

562703	Health System and Nursing Leadership	2 credits
562708	Statistics for Nursing Research	2 credits
562715	Research Methodology in Nursing	2 credits

and select other core courses in one of the following fields of concentration

<b><u>Field of Nursing Administration</u></b>		12 credits
558739	Management of Health Care and Nursing	2 credits
558742	Quality and Outcome Management in Health Care and Nursing	2 credits
558748	Practicum in Nursing Administration 1	3 credits
558749	Practicum in Nursing Administration 1	3 credits
558752	Human Resource Management in Health Service System	2 credits

<b><u>Field of Maternal and Child Nursing</u></b>		12 credits
560722	Advanced Pathophysiology and Pharmacology in Maternal and Child Nursing	3 credits
560723	Advanced Maternal and Child Nursing	3 credits
560724	Advanced Nursing Practicum in Mothers and Children 1	3 credits
560725	Advanced Nursing Practicum in Mothers and Children 2	3 credits

<b><u>Field of Adult and Gerontological Nursing</u></b>		12 credits
561743	Advanced Pathophysiology and Pharmacology in Adult and Older Adult Nursing	3 credits
561744	Advanced Nursing Care in Adults and Older Adults	3 credits
561747	Advanced Nursing Practicum in Adults and Older Adults 3	3 credits
561748	Advanced Nursing Practicum in Adults and Older Adults 4	3 credits

1.1.2 Elective courses a minimum of 3 credits

**Field of Nursing Administration**

Select from the following courses or other courses with the approval of the graduate program administrative committee

560721	Maternal and Child Nursing for Nursing Administrators	3 credits
561742	Adult Nursing for Nursing Administrators	3 credits

**Field of Maternal and Child Nursing**

Select from the following courses or other courses with the approval of the graduate program administrative committee

562709	Concepts Theories and Role Development of Advanced Practice Nurses	3 credits
562711	Learning and Teaching in Nursing	3 credits
562712	Administration in Nursing Organization	3 credits

**Field of Adult and Gerontological Nursing**

Select from the following courses or other courses with the approval of the graduate program administrative committee

562709	Concepts Theories and Role Development of Advanced Practice Nurses	3 credits
562711	Learning and Teaching in Nursing	3 credits



562712 Administration in Nursing Organization	3 Credits
<b>1.2 Other courses</b>	<b>None</b>
1.2.1 Required courses	None
1.2.2 Elective	None
2. Advanced Undergraduate Courses	None
<b>B.Thesis</b>	<b>12 credits</b>
562799 Master's Thesis	12 credits

**C. Non-credit Courses**

1. Graduate School requirement: A foreign language
2. Program requirement: None

**D. Academic activities**

1) A student has to attend a seminar that the program offered and presents the topic related to his/her thesis once every semester for at least 2 semesters. The guideline of these activities is based on the administrative committee of the program.

2) A student has to attend a project of research ethics provided for graduate students.

3) The whole or part of a thesis must be published or accepted to be published in a qualified national or international journal as indicated by the Office of the Higher Education Commission Announcement in regard to the Criteria for Academic Journal Publication Approval and Announcement of Graduate School, Chiang Mai University with the student as first author at least 1 paper

**Graduation Conditions**

At least 1 publication or acceptance to publish in an international journal listed in ISI, Scopus, IEEE, PubMed or Web of Science databases.

**Applicants Qualifications:****Plan A Type A 2**

Applicants must have the following qualifications.

1. Holding a bachelor degree in nursing or equivalent degree received from an institute that has been accredited by the Higher Education Commission, Ministry of Education, Thailand or the relevant authorized organization in applicant's country.
2. Having a professional nursing license from Thai Nursing Council or relevant authorized organization in applicant's country.
3. Having at least 1 year of working experience as professional nurse.
4. Other qualifications will be judged by the Program Administrative Committee, Faculty of Nursing, Chiang Mai University.

**Document Required:**

- |   |          |
|---|----------|
| 1. Application Form   | 2 copies |
| 2. Official transcript of bachelor in nursing   | 2 copies |
| 3. Degree certificate of bachelor in nursing  | 2 copies |
| 4. 2.5 cm. full-face photographs, less than 3 months old<br>(affixed to the application form) | 2 copies |
| 5. Copy of your citizen ID card/passport  | 2 copies |
| 6. Proposed research project  | 2 copies |
| 7. Letter of recommendation from Dean/Director/Supervisor                                     | 2 copies |

- of your workplace
8. A copy of English test results obtained within last two years, 2 copies  
such as TOEFL, IELTS, TEGS (if any) Minimum IELTS band score of 5 ,  
or TOEFL score of 450 PBT (133 CBT or 45 IBT) and TEGS score of 60.
  9. Certified letter ascertains using English as official language 2 copies  
in an applicant's country

**Contact:**

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\*\*\*Please remind that the application will complete when TICA receive the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible/territories.

### Course Detail

#### Master of Science Program in Occupational Medicine and Occupational Health

<b>Course Title:</b>	Master of Science Program in Occupational Medicine and Occupational Health (International Program)
<b>Master Degree:</b>	Master of Science in Occupation Medicine and Occupational Health
<b>Academic Institution:</b>	Department of Community Medicine, Faculty of Medicine, Khon Kaen University
<b>Duration:</b>	2 years (August 2020 – July 2022)

#### **Background and Rational: Background**

Worker's health is an important issue to support productivities of the countries. Only a small proportion of the global workforce has access to occupational health services for primary prevention and control of diseases and injuries caused or aggravated by work. The 60th World Health Assembly endorsed a Global Plan of Action on Workers' Health for 2008-2017 and urged WHO member states to devise national policies and plans for its implementation. Only one third of countries cover more than 30 percent of their workers with occupational health services. Policy and standard setting ministries lack capacity for enforcement and monitoring. One third of countries has no ministry of health staff dedicated to workers' health. While most countries have some human resources for health, academic training needs to be scaled up. Although half the countries have national workers' health profiles with data on occupational diseases, injuries, and legislation, information about communicable and noncommunicable diseases among workers and about lifestyle risks are the least covered topics. Most countries have national institutions carrying out research and training, but the distribution of such entities is uneven across country groups. Awareness about workers' health problems remains low, both in the media and among the general public. Workers' health issues feature in policies concerning management of chemicals, emergency preparedness and response, employment strategies, and vocational training. However, workers' health is seldom considered in policies regarding climate change, trade, economic development, poverty reduction, and general education. Although most countries had some strategies, standards, and targets for coverage of occupational health services, only one third covered more than 30% of their workers with such services. While ministries of health are traditionally strong in legislation, policy and standard setting for occupational health services, in most countries these ministries lacked sufficient capacity to deal with workplace inspection and monitoring of workers' health trends.

Human resources in occupational medicine and occupational health are limited, ministries of health had no staff dedicated to workers' health. Most countries had some human resources for occupational health. However, academic training in occupational medicine and occupational health needs to be scaled up at both undergraduate and postgraduate levels. As expected, mostly those in the low income group, human resources for occupational medicine and occupational health were not at all sufficient. Several countries reported that occupational health was not included in undergraduate training in medicine (10%), nursing (16%), public health (10%), engineering (19%), and physical science (31%). In those countries where occupational health was included in undergraduate training, this training was usually rated as "insufficient." Only in the Western Pacific Region were satisfied with the level of inclusion of occupational health in undergraduate training in medicine.



The proportion of countries with occupational health degree programs in medicine was highest in the European and American regions and lowest in the South-East Asian and African regions. As country incomes rose, so did the proportion of countries offering such programs. Therefore, several countries particularly, the developing countries need to build up occupational health and occupational medicine practice and that strengthening human resource capacity are a crucial issue.

Conducting postgraduate course Master degree in Occupational Medicine and Occupational Health will fill a gap of lacking human resources particularly occupational physicians, occupational health doctors, some occupational health professions in developing countries.

To conduct this Master program will definitely gain experience for the academic department and faculties as well as the instructors. At the end of the day, the reputation of the country. Following this, our department will be able to apply to be a collaborating center of some international agencies such as WHO.

Division of Occupational Medicine, Department of Community Medicine has incorporated well with various clinical specialties in the faculty and other public health and occupational health professions. There are 8 years of experience in conducting the Master degree in Occupational Medicine and the residency training program in Preventive Medicine (Occupational Medicine). Together with 15 years of experience in running a short course in occupational health and safety management for hospital personnel. The course produced 3059 health workers (from 640 hospitals across Thailand). In addition, in 2002, we hosted the short course in Occupational Epidemiology supported by International Agency Research on Cancer (IARC/WHO, Lyon-France) and there were participants from 5 countries. In 2017, our division hosted the International Conference on Occupational Health for Health Workers, it was organized by Scientific Committee on Occupational Health for Health Worker under International Commission of Occupational Health (ICOH). For the facilities, the faculty is well equipped with classrooms, audiovisuals, telecommunication, e-learning and other learning materials. In addition, the course director has set up and run the office of occupational health and safety for hospital and academic setting for 14 years. The division of Occupational Medicine has worked well with other departments such as the Dept of Medicine,

Otolaryngology, Orthopaedics, Surgery, Psychiatry, Toxicology and etc in both medical service, Master program and residency training. The department has three occupational medicine professions and one occupational health PhD degree together with PhD qualification in public health and epidemiology. Therefore our faculty and department contain several experts to run the Master program in Occupational Medicine and Occupational Health. In addition, such programs like this are very limited around Southeast of Asia and developing countries even middle to upper middle developing countries.

### **Objectives:**

#### Main objectives

- (1) Thoroughly understanding of the principle of occupational medicine and occupational health, and applying the knowledge to research or working in advance professional.
- (2) Understanding of the principle and the theory of occupational medicine and occupational health as a multidisciplinary
- (3) Having the skill of occupational medicine and occupational health management and service, analyzing the working-age health problems research
- (4) Having positive attitude toward the prevention of health problems on the treatment and attitude to be the leader of occupational medicine and

occupational health with the skill to diagnose work-related or occupational diseases.  
 (5) Having a good interpersonal skill especially with the multidisciplinary professionals and having the professional responsibility

Minor objectives

- (1) Having an ability to do the research or innovative academic project in occupational medicine and occupational health
- (2) Having an ability of analyzing, synthesizing, communicating, using the computer And information technology, and operating a modern management which lead to widespread knowledge development and application
- (3) Being an ethically academic professional and having leadership of promoting good manner in an academic and professional role

**Course Synopsis and Methodology:**

**Study plan**

**Plan A Type A2 Total in the program 36 credits hours**

**Program Structure**

Categories of Courses	Number of Credit Hours
	Plan A Type A2
1. Core Courses	-
2. Major Required Courses	18
3. Major Elective Courses	6
4. Thesis	12
Total credits in the program	36

**Lists of Courses**

Plan	Categories of Courses	Courses	Credits
Plan A Type A2	Major Required Courses	MD667742 Occupational Toxicology	2
		MD827101 Clinical Occupational Medicine	3
		MD827102 Research Methodology and Statistics in Occupational Health	3
		MD827103 Occupational Epidemiology	2
		MD827104 Occupational Hygiene and Risk Assessment	2
		MD827105 Occupational Health and Safety Management	2
		MD827106 Occupational Medicine in Occupational Health Service	2
		MD828891 Seminar in Occupational Medicine and Occupation Health I	1
		MD828892 Seminar in Occupational Medicine and Occupation Health II	1
		<b>Total</b>	<b>18</b>
Major Elective Courses	MD827151 Integration of Occupational Health for Health Worker and Quality of Health Care Service	3	
	MD827152 Application of Health	3	



	Economics in Health Care Services	
	MD827153 Field Practice in Occupational Hygiene - Direct reading and Personal sampling	2
	MD827154 Standard and Legal Aspects in Occupational Health	2
	MD827155 Occupational Ergonomics	2
	MD827156 Occupational Mental Health	2
	MD827157 Clinical Preventive Medicine	2
	Total	6
Thesis	207 899 Thesis	12
	Total	12

### Recommended Sequence

Year 1 / Semester 1	Credits
	Plan A Type A2
MD667742 Occupational Toxicology	2
MD827101 Clinical Occupational Medicine	3
MD827104 Occupational Hygiene and Health Risk Assessment	2
MD827105 Occupational Health and Safety Management	2
MD827106 Occupational Medicine in Occupational Health Service	2
MD828891 Seminar in Occupational Medicine and Occupation Health I	1
TOTAL ENROLL COURSE CREDIT	12
TOTAL CUMULATIVE COURSE CREDIT	12

Year 1 / Semester 2	Credits
	Plan A Type A2
MD827102 Research Methodology and Statistics in Occupational Health	3
MD827103 Occupational Epidemiology	2
MD827151 Integration of Occupational Health for Health Worker and Quality of Health Care Service	3
MD827154 Standard and Legal Aspects in Occupational Health	2
MD827155 Occupational Ergonomics	2
MD828892 Seminar in Occupational Medicine and Occupation Health II	1
MD827899 Thesis	2
TOTAL ENROLL COURSE CREDIT	14
TOTAL CUMULATIVE COURSE CREDIT	26



Year 2 / Semester 1	Credits
	Plan A Type A2
MD827899 Thesis	9
TOTAL ENROLL COURSE CREDIT	9
TOTAL CUMULATIVE COURSE CREDIT	35

Year 2 / Semester 2	Credits
	Plan A Type A2
MD827899 Thesis	1
TOTAL ENROLL COURSE CREDIT	1
TOTAL CUMULATIVE COURSE CREDIT	36

\*Please note that the curriculum is subject to change as appropriate.

#### Thesis Master Plan

1	Research question, rationale, research title	January – February 2021
2	Literature review	January – April 2021
3	Proposal submission	April – June 2021
4	Ethical submission	June 2021
5	Data collection and analysis	June – October 2021
6	Manuscript submission	December 2021
7	Thesis defending	June 2022

#### Course Contents

Subjects	Credits	Course Contents
<b>Compulsory</b>		
MD667742 Occupational Toxicology	2(2-0-4)	Basic knowledge of toxicology such as toxicokinetics, signal transduction, cell death processes, genetic toxicology, carcinogenesis; organ toxicity such as liver, renal, cardiovascular system, respiratory system, immunological system, neurological system, reproductive system, skin, carcinogenicity; and toxic substances in occupational diseases such as pesticides, radioactive substances, heavy metals, volatile matter; use of toxicological data to establish occupational exposure limits (OELs); regulatory aspects (COSHH, CHIP regulations)
MD827101 Clinical Occupational Medicine	3(3-0-6)	Adverse impact from harmful exposures, work practice affects to health, skills of diagnosis of ill health, medical fitness for work, based on evidence base, main occupational diseases, occupational toxicology, occupational illness from chemical exposure; metal, toxic gas, solvents, dust, and pesticides, occupational respiratory and dermatologic diseases, occupational cancer and its control, health screening and surveillance, job transferring or

Subjects	Credits	Course Contents
		termination due to poor health or an ageing population and rehabilitation following ill health.
MD827102 Research Methodology and Statistics in Occupational Health	3(2-3-6)	Basic concepts in statistics, types of data and data presentation, descriptive statistics, basic probability, distribution theory, normal distribution, sampling theory, inferential statistics, analysis of categorical and continuous data, non-parametric tests, correlation and regression, and survival analysis, descriptive epidemiology, measures and comparisons of disease frequency, ecological studies, cross-sectional studies, prevalence studies, case-control studies, principles of screening, study design and questionnaires, qualitative research methods.
MD827103 Occupational Epidemiology	2(2-0-4)	Historical background, scope, purpose and advantage of epidemiology and occupational epidemiology, characterizing the workplace environment, general concepts of exposure and dose, classification of exposure, approach to exposure assessment, reliability and validity of exposure assessment, combining exposure data from multiple sources, overview of study designs related to occupational disorders, cohort studies, case control studies, cross-sectional studies, bias, exposure dose modeling, meta-analysis, applications of epidemiologic methods for epidemiological surveillance and investigation, appraisal in epidemiologic articles
MD827104 Occupational Hygiene and Health Risk Assessment	2(1-2-3)	Approaches to workplace risk assessment for physical, chemical and biological hazards, decision making on the extent of risk, collecting occupational exposure data and methods for selecting control measures (to protect health) and assessment of their effectiveness, type of health risk assessment, health risk assessment method, job-exposure matrix and environmental monitoring
MD827105 Occupational Health and Safety Management	2(1-2-3)	Fundamental of occupational health and safety management, occupational health and safety management system, occupational health and safety organization, tools for occupational health and safety management, safety analysis tools, occupational health and safety law and regulations, occupational health and safety standards, risk management, information technology for occupational health and safety management system, auditing occupational health and safety management systems, management of personal protective and emergency equipment, risk and loss control management, establishing a safety culture, information technology related to occupational health management, and nontechnical skills for management



Subjects	Credits	Course Contents
MD827106 Occupational Medicine in Occupational Health Service	2(1-3-4)	Principles of occupational health services, components of occupational health service, level of occupational health service, occupational health service activity, occupational medicine in occupational health service, fitness for work assessment, returning to work assessment, diagnosis approach for occupational diseases, design of medical surveillance program for specific work, design of workplace medical emergency preparedness and response, occupational health service for formal, informal and special workforces, occupational health services systems designed for workforce in agricultural; industrial; and services sectors, field studies in industrial workplaces, field epidemiology in workplace, occupational health service unit in health care setting, occupational medicine clinic, ethical issue in occupational health service, audit in occupational health service
<b>Elective</b>		
MD827151 Integration of Occupational Health for Health Worker and Quality of Health Care Setting	3(2-2-5)	Overview of occupational health for health care workers, epidemiology and health surveillance in health care workers, occupational health service for health care workers, occupational diseases or work-related diseases in health care workers, ergonomics for health care workers, occupational hygiene in hospital, hospital accreditation and occupational health, chemical safety in hospital, risk assessment in hospital, accident analysis in hospital, health promotion for health care workers, information management of occupational health for health care workers, research in occupational health for health care workers, occupational health for health care workers seminar
MD827152 Application of Health Economics in Healthcare Services	3(3-0-6)	Concept of application of health economics, objectives of economics analyses and evaluations of private and public health care services, cost analysis, unit cost and break even point analysis, measurement of productivity and effectiveness, measurement and evaluation of economics outcome, health care service analysis and evaluation using cost-benefit, advantage cost and cost-effectiveness, pros and cons of various analyses, data collection and analyses of economics data, data presentation and applications of economic evaluation results in Health policy
MD827153 Field Practice in IH - Direct reading and Personal sampling	2(1-2-3)	Instrument use and operation, calibration, chemical properties and exposure limits, instrument technology and operational theory, instrument selection, data interpretation and datalogging, sampling strategies in



Subjects	Credits	Course Contents
		incident response, instrument maintenance, instrument troubleshooting, personal sampling method, filters and personal pumps, sampling technique, sampling data analysis, use of personal sampling data in exposure assessment, correlation of environment sampling and biomarkers.
MD827154 Standard and Legal Aspects in Occupational Health	2(2-0-4)	International standard in occupational health and safety, influence of legal process in development of occupational health both nationally and internationally, occupational health and safety standards such as asbestos, food safety and hygiene, risk management and implementation of risk management systems, employment law including discrimination, disability law and ethic, fitness to work standards, factors contributing to the shaping of legal aspects, the regulation of environmental and consumer risk, UK USA EU and health and safety regulation
MD827155 Occupational Ergonomics	2(1-2-3)	Human physiological processes, muscle use and anthropometry, examination of work postures, workspace design and task analysis, activity-related soft tissue disorders, back injuries, factors covering shiftwork and fatigue , organizational and psychosocial aspects of work, risk assessment of low back injury, design for productivity, quality and safety, computer workstation evaluations, work stress, absenteeism, presenteeism and sleep, cost benefit analysis and return on investment.
MD827156 Occupational Mental Health	2(2-0-4)	Occupational hazards related to mental health, influence of psychosocial and other factors on the mental health of workers, organizationally and individually based approaches to assessment and intervention, selection and management issues relating to workers with mental health problems, workplace bully, violence and harassment, alcohol and drug abuse, post-traumatic stress disorder, employee assistance program, the current legal position on psychosocial hazards at work
MD827157 Clinical Preventive Medicine	2(2-0-4)	Principle of Clinical Preventive Medicine, factors effect on human health, basic clinical epidemiology, occupational epidemiology, outbreak investigation, basic public health, basic travelling medicine, basic aviation medicine, basic maritime medicine, basic psychosocial care, disease prevention, health promotion and vaccination
MD828891 Seminar in Occupational	1(1-0-2)	Analysis and criticize, methodology, results and assumption of published occupational medicine research articles, group discussion on occupational

Subjects	Credits	Course Contents
Medicine and Occupational Health I		diseases patients in terms of the causes, risk factors, diagnosis, investigation, treatment, prevention and health promotion, health risk communication and roles of occupational health professionals and occupational health doctors
MD828892 Seminar in Occupational Medicine and Occupational Health II	1(1-0-2)	Seminar and academic exchange of some original or systematic review articles from various occupational health or occupational medicine journals
MD827899 Thesis		Review of literature, construction of research question, proposal development, study of ethical consideration conducting of research , thesis writing and defense manuscript preparation

**Graduation Conditions:**

The thesis need to be completely published or accepted to be published in the national or international paper as following to the Publication Rules Announcement of Office of the Higher Education Commission or as following to the curriculum rules or grants provider conditions or full paper presentation and published in the proceedings, which the editors including professors or experts with doctoral degree or expert widely prestigious in the field, at least 25 percent of the expert must from other institutes and the articles in the proceedings must be from at least 3 other institutes which more than 25 percent in total. In case of Open Access journal, avoid the journal which is under the Graduated School standard.

**Applicant Qualifications**

1) Graduation bachelor degree in Doctor of Medicine, nursing science, occupational health and safety or other fields associated with GPA not less than 2.50

2) Already qualified to study in this course at the date of applying scholarship

3) Age not over 35 years old at the date of applying scholarship

4) At least 1 year professional working experience

5) Adequate English proficiency at least

- TOEFL (IBT)                    60
- TOEFL (CBT)                   173
- TOEFL (paper)                500
- IELTS                             5.5
- CU-TEP                          60

6) For students who have commitment working in the company or organization after graduation would be first priority

**Document Required**

- 1) Application form with photo
- 2) Copy of ID card or passport
- 3) Academic transcript of Bachelor degree
- 4) English proficiency certificate
- 5) Document from company or organization mentioned about future career part after graduation (if applicable)
- 6) Other documents as necessary

TIPP application detail and Medical Report are available

<http://tica.thaigov.net/main/en/relation/75500-TIPP-Application-form.html>

**Contact:**

**Course director**

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## Course Detail

### Master of Science Program in Phytopharmaceutical Science

<b>Course Title:</b>	Master of Science Program in Phytopharmaceutical Sciences (International)
<b>Master Degree:</b>	Master of Science (Phytopharmaceutical Sciences)
<b>Academic Institution:</b>	Faculty of Pharmacy, Departments of Pharmacognosy, Pharmaceutical Botany, Pharmaceutical Chemistry, Manufacturing Pharmacy, and Physiology
<b>Duration:</b>	2 years: (August 2020 – June 2022)

#### **Background and Rational**

Nowadays, there is a global trend towards the use of phytomedicine in public health and primary health care. If any country has the capability in producing standardized phytopharmaceuticals which are acceptable by national, international towards the world community, this will increase the chance to promote health and also export herbal products. Thus, it is essential for every country to produce qualified scholars who are capable of developing innovation such as phytopharmaceutical products from medicinal plants which require the integration of indigenous knowledge with the scientific knowledge in Pharmaceutical Sciences. This would enable phytopharmaceutical products to meet national and international standards and receive worldwide acceptance. All the above reasons have prompted five departments of the Faculty of Pharmacy, Mahidol University which are Departments of Pharmaceutical Chemistry, Pharmaceutical Botany, Pharmacognosy, Manufacturing Pharmacy, and Physiology, to develop a multidisciplinary Ph.D. program in Phytopharmaceutical Sciences in 2003 and then afterwards M.Sc. program in Phytopharmaceutical Sciences in 2014. This program focuses on the isolation and evaluation of compounds from plants used in medical treatment derived from traditional medicine sources and activity testing and development of plant-based products.

Our program composes of 5 departments which have the experts in different field of phytopharmaceutical sciences and related fields. All teaching staff is Ph.D. holders with the ratio of staff:student = 5:1. The teaching and learning facilities and equipment are adequate and updated to support the Phytopharmaceutical educational program and research.

Students are able to analyze core knowledge in the field of the Phytopharmaceutical Sciences, apply new knowledge from herbal medicine to promote health, and develop research proposal or product to be presented and published in the academic proceeding or peer review journal.



<b>1) Required courses</b>		<b>19 credits</b>
<b>Credits (lecture–practice–self-study)</b>		
PYID 685	Research Methodology in Pharmacy I	2(2-0-4)
PYPB 605	Taxonomy of Medicinal Plants	3(2-3-5)
PYPG 667	Phytochemistry	3(3-0-6)
PYPH 670	Herbal Production and Formulation Development	3(2-3-5)
PYPH 671	Alternative Medicinal Products	3(3-0-6)
PYPH 672	Quality Assurance Guideline for Herbal Products	3(2-3-5)
PYPH 601	Seminar in Phytopharmaceutical Sciences	1(1-0-2)
PYPH 602	Seminar in Phytopharmaceutical Research	1(1-0-2)

<b>2) Elective courses not less than</b>		<b>5 credits</b>
PYMI 665	Quality Assessment and Microbiological Control	3(2-3-5)
PYPB 601	Traditional Thai Medicine	3(3-0-6)
PYPG 649	Development of Medicinal Plants I	3(2-3-5)
PYPG 655	Chemistry of Natural Products	3(3-0-6)
PYPH 673	Special Problems in Phytopharmaceutical Products	2(0-6-2)
PYPH 674	Herbal Products for Spa	3(1-6-4)
PYPH 675	Essentials in Disease Prevention and Health Promotion	2(2-0-4)
PYPH 689	Phytomedicine	3(3-0-6)
PYPH 693	Phytocosmeceuticals	3(2-3-5)
PYPH 694	Nutraceuticals	3(3-0-6)
PYPH 695	Applied Plant Biotechnology in Pharmaceutical Sciences	3(2-3-5)
PYPM 666	Drug Screening Techniques I	3(2-3-5)

In addition to elective courses mentioned above, a student may register other courses in international program offered by other faculties' equivalent to graduate studies, Mahidol University or the ones offered by other universities according to the student's interest with the approval of the curriculum committee or the advisor.

<b>1) Thesis</b>		<b>Credits (lecture – practice – self-study)</b>
PYPH 698	Thesis	12(0-36-0)



## **Applicants Qualifications**

### **Qualifications of Prospective Students: For Plan A2 Applicant**

1. Holding a Bachelor degree in Pharmacy, Sciences or related fields.
2. Having cumulative GPA not less than 2.5
3. Pass the English Proficiency Examination (MU-GRAD TEST score  $\geq 60$ ) offered by the Faculty of Graduate Studies, Mahidol University, or TOEFL iBT 54 up or TOEFL ITP 480 up or IELTS 5.0 up
4. Applicant with other qualifications may be considered by the Program committee under exceptional circumstances.

### **9. Document Required:**

1. Degree Certificate (English Translated)
2. Academic Transcript (English Translated)
3. Photo
4. Passport
5. Curriculum Vitae (CV)
6. Health Certificate
7. Recommendation Letters (to request via online admission system)
8. Additional documents: e.g. Statement of Purpose, Letter of Work Experience, Professional License, Publications, Scholarship Letter, Research Proposal, Concept Paper, etc.
9. English Proficiency Score Report
10. Age less than 40 years

### **Contacts:**

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\*\*\* Please remind that the application will complete when TICA receive the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible/territories.

**Course Detail****Master of Science in Pharmacy Program in Pharmacology and Biomolecular Science**

<b>Course Title:</b>	Master of Science in Pharmacy Program in Pharmacology and Biomolecular Science (International Program)
<b>Master Degree:</b>	Master of Science in Pharmacy (Pharmacology and Biomolecular Science)
<b>Academic Institution:</b>	Department of Biochemistry and Department of Pharmacology Faculty of Pharmacy
<b>Duration:</b>	2 year: August 2020 - July 2022
<b>Background and Rational:</b>	

The Master of Science in Pharmacy in Pharmacology and Biomolecular Science Program was approved for teaching as well as providing pharmacy graduates the academic and research skill, to fulfill the country's need. There are well-trained faculty members who have expertise and experience in the fields of Pharmacology and Biomolecular Sciences in this program. Moreover, the research works of these faculty members are internationally recognized. The most important issue is to ensure that graduates of this program will definitely have the capability comparable to those graduated abroad. This program is an international program, enrolled both Thai and international students. Curriculum, teaching methods and teaching materials are internationalized. Students graduated from this program are able to work in the field of pharmacology and biomolecular science as researcher, academic staff of government and private as well as pharmacists working in pharmaceutical industry, hospitals, drug stores, food and nutrition industry, cosmetic industry and other related industry.

**Objectives:**

The objective of this program is to provide knowledge and skill in the area of pharmacology and biomolecular sciences for research and development of novel drugs used for the treatment of tropical diseases, chronic diseases, and emerging diseases for supporting and enhancing the health system and promoting the community health care in the community.



**Course Synopsis and Methodology:****Study plan****Plan A2**

<b>Year</b>	<b>Semester 1</b>	<b>Semester 2</b>
1	PYID 685 Research Methodology in Pharmacy I 2(2-0-4) GRID 603 Biostatistics 3(3-0-6) Elective courses 6 credits  <p style="text-align: right;"><b>Total 11 credits</b></p>	PYID 696 Molecular Pharmacology 3(3-0-6) and Biomolecular Science PYPM 685 Seminar in Pharmacology 1(1-0-2) and Biomolecular Science I Elective courses 6 credits  <p style="text-align: right;"><b>Total 10 credits</b></p>
2	SCID 500 Cell and Molecular Biology 3(3-0-6) PYPM 686 Seminar in Pharmacology 1(1-0-2) and Biomolecular Science II PYID 698 Thesis 6(0- 18-0)  <p style="text-align: right;"><b>Total 10 credits</b></p>	PYID 698 Thesis 6(0- 18-0)  <p style="text-align: right;"><b>Total 6 credits</b></p>

**Course Content**

1) Core Courses	7 credits
2) Required courses	12 credits
3) Elective courses not less than	6 credits
4) Thesis	12 credits
<b>Total not less than</b>	<b>37 credits</b>

**1) Core Courses****7 credits****Credits (lecture–practice–self-study)**

GRID 603	Biostatistics	3(3-0-6)
PYPM 685	Seminar in Pharmacology and Biomolecular Science I	1(1-0-2)
PYPM 686	Seminar in Pharmacology and Biomolecular Science II	1(1-0-2)
PYID 685	Research Methodology in Pharmacy I	2 (2-0-4)

<b>2) Required courses</b>	<b>12 credits</b>
	<b>Credits (lecture–practice–self-study)</b>
SCID 500 Cell and Molecular Biology	3(3-0-6)
PYID 696 Molecular Pharmacology and Biomolecular Science	3(3-0-6)
<b>Major Molecular and Biomolecular Science</b>	<b>6 credits</b>
PYBC 662 Drug Metabolism and Detoxification	3(3-0-6)
PYBC 665 Biomolecular Sciences in Pharmacy	3(3-0-6)
<b>Major Pharmacology</b>	<b>6 credits</b>
PYPM 663 Principle of Drug Therapy	3(3-0-6)
PYPM 687 Advanced Pharmacology	3(3-0-6)
<b>3) Elective courses not less than</b>	<b>6 credits</b>
	<b>Credits (lecture–practice–self-study)</b>
PYBC 667 Current Topics in Biochemistry	2(2-0-4)
PYBC 668 Instrumental Research Techniques	3(2-3-5)
PYBC 669 Biopharmaceutical Biochemistry	3(3-0-6)
PYBC 670 Human Metabolism	3(3-0-6)
PYBC 671 Biochemical Techniques for Drug Research and Development	4(4-8-8)
PYBC 672 Biochemical Technology Laboratory	2(0-6-2)
PYBC 673 Principle of Biomolecular Analysis	3(3-0-6)
PYPM 664 Essentials in Toxicology	3(2-3-5)
PYPM 666 Drug Screening Techniques I	3(2-3-5)
PYPM 676 Receptor Pharmacology	3(3-0-6)
PYPM 678 Adverse Drug Reaction	3(3-0-6)
PYID 700 Biologics and Biosimilars	3(3-0-6)
<p>In addition to elective courses mentioned above, a student may register other courses in international program offered by other faculties' equivalent to graduate studies, Mahidol University or the ones offered by other universities according to the student's interest with the approval of the curriculum committee or the advisor.</p>	
<b>4) Thesis</b>	<b>12 credits</b>
	<b>Credits (lecture–practice–self-study)</b>
PYID 698 Thesis	12(0-36-0)

**Graduation Conditions:**

- 1) Total time of study should not exceed the study plan.
- 2) Students must complete courses as stated in the curriculum at least 37 credits including core courses (7 credits), required courses (12 credits), elective courses (not less than 6 credits) and thesis (12 credits) in total with a minimum CUM-GPA of 3.00.
- 3) Students must meet the English Competence Standard of Graduate Students, Mahidol University defined by the Faculty of Graduate Studies, Mahidol University.
- 4) Students must submit thesis and pass the thesis defense by following Regulations of Mahidol University on Graduate Studies.
- 5) A thesis or part of a thesis is published or at least be accepted for publication in the national or international quality journals recognized by the office of the higher education commission (OHEC), Ministry of Education or presented at least one full paper in the proceedings of academic meeting accepted by the Faculty of Graduate Studies, Mahidol University.

**Applicant Qualifications**

1. Hold a Bachelor's degree in Pharmacy and meet the requirements set by the Faculty of Graduate Studies;
2. Have a minimum grade point average of 2.50;
3. Good command in English (reading, writing and speaking);
4. Exemption from the above conditions may be granted by the Program Committee under exceptional circumstances.

**Document Required**

- 1 Photo
2. Passport
3. Curriculum Vitae (CV)
4. Recommendation Letters (to request via online admission system)
5. Additional documents: e.g. Statement of Purpose, Letter of Work Experience, Professional License, Publications, Scholarship Letter, Research Proposal, Concept Paper, etc. English Proficiency Score Report (directly sent by the test center)



**Contact:**

Contact person for more information of the program:

1. Asst. Prof. Warisara Parichatikanond  
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2. Asst. Prof. Khanit Sa-ngiamsuntorn  
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Telephone: +66 026448677-91 Ext. 5732, 5733

Contact person for administrative and general data of the scholarship holder:

1. Asst. Prof. Warisara Parichatikanond  
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\*\*\*Please remind that the application will complete when TICA receive the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible/territories.

### Course Detail

#### Master of Science Program in Environmental, Safety Technology and Health

<b>Course Title:</b>	Master of Science Program in Environmental, Safety Technology and Health (International Program)
<b>Master Degree:</b>	M.Sc. (Environmental, Safety Technology and Health)
<b>Academic Institution:</b>	School of Public Health, Walailak University
<b>Duration:</b>	2 years (August 2020 - July 2022)

#### Background and Rationale

Disruptive change in social and economic development in the last decade has directly led to the impact on the environment, safety and human health. According to the World Health Organization, an estimated 12.6 million people died as a result of living or working in an unhealthy environment in 2012 – nearly 1 in 4 of total global deaths. Environmental risk factors, such as air, water and soil pollution, chemical exposures, climate change, and ultraviolet radiation, contribute to more than 100 diseases and injuries. In addition, the effect of global environmental change, for instance, climate change, disaster, continuously results in several social, economic and health impacts. Obviously, several countries worldwide (especially developing countries) have been adversely affected by these problems. However, the number of specialists in these issues in those countries is quite limited.

This multidisciplinary program “Environmental, Safety technology and Health” (International Programs) aims to integrate knowledge from three inter-related aspects (environment, safety, health) to solve the complex problems of environment, occupational health and safety that consequently relate to the health problem. The main objective of this program is directly in line with the United Nations sustainable development goals (SDGs) especially in SDGs no. 3 (Good health and well-being) 6 (Clean water and sanitation) 7 (Affordable and clean energy) 9 (Industry, Innovation) 11 (Sustainable cities and communities) 12 (Responsible consumption and production) 13 (Climate action) 14 (Life below water) and 15 (Life on land). The teaching and learning philosophy of this program is based on United Kingdom Professional Standards Framework (UKPSF), which focuses on various active learning methods, effective formative assessment. Finally, the program has several international collaborations, for example, Hokkaido University, Kyoto University, Seoul National University, University Putra Malaysia, Chung Yuan Christian University, which is a benefit for conducting student’s dissertation.

**Objectives**

To produce high skilled specialist who has academic potential in the integrated discipline of environment, safety technology, health as well as critical, analytical and communication skills with a professional orientation

**Course Synopsis and Methodology**

**Study plan:** Plan A1 (Research Plan or Thesis Only) consists of a total of 45 credits of thesis

**Compulsory Coursers**

ESH61-950\* Seminar in Environmental, Safety Technology and Health I 2 Credits

ESH61-951\* Seminar in Environmental, Safety Technology and Health II 2 Credits

**Thesis**

ESH61-920 Thesis 45 Credit

*\* Non-credit courses*

The student may need to enroll in some non-credit elective courses (based on the suggestion of a supervisor) to fulfil their academic skills before conducting a thesis.

## 1. Regular master's study program

Total credit required 45 credit (trimester)

Year	Semester 1		Semester 2		Semester 3	
1	ESH61-920	Thesis 5 credit	ESH61-950* Seminar in Environmental, Safety Technology and Health Seminar I	2(0-6-3)	ESH61-951* Seminar in Environmental, Safety Technology and Health Seminar II	2(0-6-3)
			ESH61-920 Thesis	8 credit	ESH61-920 Thesis	8 credit
	Total 5 credit		Total 8 credit		Total 8 credit	
2	ESH61-920	Thesis 8 credit	ESH61-920	Thesis 9 credit	ESH61-920	Thesis 7 credit
	Total 8 credit		Total 9 credit		Total 7 credit	

\* Non-credit courses



## 2. Fast-track master's study program)

Total credit required 45 credit (trimester)

Year	Semester 1			Semester 2			Semester 3		
1	ESH61-950*	Seminar in Environmental, Safety Technology and Health Seminar I	2(0-6-3)	ESH61-951*	Seminar in Environmental, Safety Technology and Health Seminar II	2(0-6-3)	ESH61-920	Thesis	15 credit
	ESH61-920	Thesis	15 credit	ESH61-920	Thesis	15 credit			
	Total 15 credit			Total 15 credit			Total 15 credit		

\* Non-credit courses

Thesis Roadmap

Semester	Target
1	Approval of thesis title & Advisor appointment
2	Proposal development and defend
3	- Human ethic approval (if needed) - 40% Thesis progress
4	- 70% Thesis progress - Preparation for manuscript
5	- Complete thesis research work - Present and publish manuscript
6	Thesis defense and finalize thesis book

**Course Content/Study Topic****List of courses (course description in appendix)****1. Thesis****ESH61-920 Thesis****45 credit**

## 2. Remedial courses

Remedial courses are non-credit and course grades will not be included in GPA calculation. Students without the background in areas specified by environmental, safety technology and health committee can be requested by the committee to enroll in remedial courses. Numerous remedial courses (non-credit) are available in various subspecialty areas of environmental, safety technology and health.

ESH61-950*	Seminar in Environmental, Safety Technology and Health I	2(0-6-3)
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**Remark\* Non-credit course**

ESH61-951*	Seminar in Environmental, Safety Technology and Health II	2(0-6-3)
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**Remark\* Non-credit course**

ESH61-600	Statistics and Research Methodology	3(2-3-6)
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ESH61-601	Environmental Technology Innovation	3(3-0-6)
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ESH61-602	Advanced Safety Technology	3(3-0-6)
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ESH61-603	Health Impact Assessment	3(3-0-6)
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**- Environmental Technology**

ESH61-610	Air Pollution Control Technology	3(3-0-6)
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ESH61-611	Solid Waste Management and Energy Recovery	3(3-0-6)
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ESH61-612	Innovative Technologies for Hazardous Waste Treatment	3(3-0-6)
ESH61-613	Water and Wastewater Treatment for Industry	3(3-0-6)
ESH61-614	<b>Sustainable Industrial Management</b>	3(3-0-6)
ESH61-615	<b>Greenhouse Gas Mitigation Technology</b>	3(3-0-6)
ESH61-616	<b>Renewable Energy Technologies</b>	3(3-0-6)
ESH61-617	<b>Environmental Pollution Monitoring</b>	3(2-3-6)
 <b><u>- Safety Technology</u></b>		
ESH61-621	Risk Assessment and Management Technique	3(3-0-6)
ESH61-622	<b>Fire prevention Technology</b>	3(3-0-6)
ESH61-623	Advanced Accident Prevention and Control	3(3-0-6)
ESH61-624	Process Safety Management and Major Hazards	3(3-0-6)
ESH61-625	<b>Transportation Safety</b>	3(3-0-6)
ESH61-626	<b>Construction Safety</b>	3(3-0-6)



*-Environmental Health and Occupational Health*

ESH61-630	Applied Safety and Environmental System Standards and Auditing	2(2-0-4)
ESH61-631	Information Technology in Environment, Safety and Health	2(2-0-4)
ESH61-632	<b>Industrial Hygiene Technology</b>	3(3-0-6)
ESH61-633	<b>Applied Toxicology</b>	3(3-0-6)
ESH61-634	Human factors and Applied Ergonomic	3(3-0-6)
ESH61-635	Climate Change and Health Impact	3(3-0-6)
ESH61-636	Environmental and Occupational Health Issues at Different Age	3(3-0-6)
ESH61-637	<b>Disaster and Emergency Management</b>	3(3-0-6)
ESH61-638	<b>Environmental Diseases</b>	3(3-0-6)
ESH61-639	<b>Health Sciences and Technology</b>	3(3-0-6)
ESH61-640	Core Biological Concepts of Health Practice	3(3-0-6)

**Graduation conditions**

Graduation conditions include;

- Pass all compulsory courses (mentioned in section 7) and collect 45 credits of thesis

- Publish his/her thesis-related work at one full paper proceeding in the peer-reviewed international conference.
- In case that the program accepts students, who has English proficiency test lower than mentioned in section 9, to study. Those students must pass the English proficiency test before graduation

### **Application Qualifications**

1. The applicant must hold a Bachelor degree in the Sciences, Engineering, Technology, Health Science in the field of Health Science, Environmental Health, Occupational Health and Safety, Public Health, Environmental Science, Environmental Technology, Environmental Engineering, Safety Engineering or other related fields with the least final GPAX of 2.75 or the applicant have at least 5 years of work experience related to program. In case the applicant did not graduate in mentioned fields, the qualification of an applicant will be considered and approved by the committee of the program.

2. Applicant should pass standard English proficiency test standard TOFEL-PBT 450 score, TOEFL-CBT 153 score, TOEFL-IBT 45 score, IELTS 4.5, CU-TEP 57 score, CEFT B1 level

(Exemption: An applicant who is a native English-speaking student, for example, from Australia, Canada, New Zealand, United Kingdom, or USA can be exempted from the above English proficiency requirements)

3. The applicant should present a tentative interest research topic and concept paper. For those who would like to apply in a fast track system (1-year program), a full proposal must be submitted. It is recommended that the applicants may consult with their potential supervisor on the possible thesis topic before applying.

### **Document Required**

1. Transcripts (if incompletes, must be submitted a certification letter)
2. Result of the English proficiency test (Remark: The score must not be older than two years)
3. ID card or copy of passport (Bio page)
4. Letters of recommendations
5. Concept paper (max. 3 pages) or a tentative full proposal for an applicant in a fast track system
6. One recent photograph of 1-inch size

**Contacts:**

Lecturer responsible programs:

<i>Name</i>	<i>E - mail</i>	<i>Tel.</i>
10.1 <i>Asst.Prof.Dr.Warit Jawjit</i>	warit.ja@wu.ac.th	0-7567-2152, 0-7567-2113
10.2 <i>Dr.Panatda Pibul</i>	ppanatda@wu.ac.th	0-7567-2189, 0-7567-2113
10.3 <i>Dr.Supabhorn Yimthiang</i>	ksupapor@wu.ac.th	0-7567-2189, 0-7567-2113

**Coordinator:**

Asst.Prof.Dr.Warit Jawjit

E – mail: [warit.ja@wu.ac.th](mailto:warit.ja@wu.ac.th); [jwarit@gmail.com](mailto:jwarit@gmail.com)

Tel: 0-7567-2190, 0-7567-2113, 0-7567-2478

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**Course Detail**  
**Master of Science Program in Engineering and Technology**

<b>Course Title:</b>	Master of Science Program in Engineering and Technology (International Program)
<b>Master Degree:</b>	Master of Science (Engineering and Technology)
<b>Academic Institution:</b>	Sirindhorn International Institute of Technology, Thammasat University, Rangsit Campus
<b>Duration:</b>	Two (2) years (August 2020 – July 2022)

**Background and Rational:**

Nowadays, economy and society are rapidly changing in various aspects. To address these changes, it is necessary for SIIT to develop the Master of Science in Engineering and Technology curriculum that is up to date and enable graduates to professionally cope with current challenges in their working life with morals and ethics. The SIIT curriculums are established according to the aim of Thammasat University to produce skillful graduates who can bring their knowledge and ability to sustainably develop the country in terms of economy and society.

**Objective:**

To educate graduate students to be able to conduct high quality and innovative research in engineering and related technological development.

**Course Synopsis and Methodology:****Study plan**

Number of the total credits not less than 39 credits

<b>Plan A; A1 (Research plan)</b>	<b>39</b>	<b>credits</b>
- Thesis	39	credits
<b>Plan A; A2 (Coursework and research plan)</b>	<b>39</b>	<b>credits</b>
- Compulsory Course	3	credits
- Elective Courses	9	credits
- Thesis	27	credits

**Course Content/Study Topic:****Plan A1**

ES808 Thesis 39 credits

**Plan A2**

**Compulsory Course 3 credits**

ES610 Research Methods and Communications 3(3-0-9)

**Elective Courses 9 credits**

Select three of the following courses:

ES601 Advanced Engineering Mathematics 3(3-0-9)

ES607 Selected Topic I 3(3-0-9)

ES608 Selected Topic II 3(3-0-9)

ES609	Selected Topic III	3(3-0-9)
ES611	Theory of Computation	3(3-0-9)
ES612	Advanced Business Statistics	3(3-0-9)
ET600	Numerical Methods for Engineers	3(3-0-9)
ICT600	Computational Mathematics	3(3-0-9)
SE600	Decision Making and Optimization	3(3-0-9)
<b>Thesis</b>		<b>27 credits</b>
ES807	Thesis	27 credits

**Graduation Condition:****Plan A1**

- Students must successfully complete 39 credits of thesis.
- Papers are published in one of the following:
  - At least one paper on thesis results must have been published or accepted for publication in a qualified international journal under the regulations on classification of academic journals for research publications by the Higher Education Commission and the SIIT Academic Committee, or
  - At least one paper on thesis results must have been published or accepted for publication in a qualified national journal under the regulations on classification of academic journals for research publications by the Higher Education Commission and the SIIT Academic Committee and at least one paper on thesis results must have been accepted for presentation in a national conference and for publication of a full paper in national conference proceedings.
    - Approval of the thesis by the Thesis Committee, and passing a thesis defense.
    - Having satisfied one of the following English proficiency requirements:
      - A TOEFL (official or institutional) score of at least 550 (paper-based), or 213 (computer-based), or 79 (internet-based)
      - An IELTS score of not less than 6.5
      - A TU-GET score of not less than 550 (paper-based), or 79 (computer-based)
      - A TOEIC score of not less than 750
      - "P" grade in TU005 English 1 and TU006 English 2

The score must not be older than 2 years from the test date to the start of the academic semester prior to the student's first academic semester and must not be older than 2 years from the test date to the student's entrance examination date.

**Plan A2**

- Twelve credits of courses (see the course descriptions) with a GPA of at least 3.00
- Twenty seven credits of thesis with grade "S"
- Papers are published in one of the following:
  - At least one paper on thesis results must have been published or accepted for publication in a qualified international journal under the regulations on classification of academic journals for research publications by the Higher Education Commission and the SIIT Academic Committee, or
  - At least one paper on thesis results must have been published or accepted for publication in a qualified national journal under the regulations on classification of academic journals for research publications by the Higher Education Commission and the SIIT Academic Committee and at least one paper on thesis results must have been accepted for presentation in a national conference and for publication of a full paper in national conference proceedings, or
  - At least one paper on thesis results must have been accepted and registered for presentation in an international conference and also for publication of a full paper in



international conference proceedings, and at least one paper on thesis results must have been submitted for publication in a qualified national journal under the regulations on classification of academic journals for research publications by the Higher Education Commission and the SIIT Academic Committee.

- Approval of the thesis by the Thesis Committee, and passing a thesis defense.
- Having satisfied one of the following English proficiency requirements:
  - A TOEFL (official or institutional) score of at least 550 (paper-based), or 213 (computer-based), or 79 (internet-based)
  - An IELTS score of not less than 6.5
  - A TU-GET score of at least 550 (paper-based), or 79 (computer-based)
  - A TOEIC score of not less than 750
  - “P” grade in TU005 English 1 and TU006 English 2

The score must not be older than 2 years from the test date to the start of the academic semester prior to the student’s first academic semester and must not be older than 2 years from the test date to the student’s entrance examination date.

**Exemption:** An applicant who is a native English speaking student from Australia, Canada, New Zealand, United Kingdom, or USA may be exempted from the above English proficiency requirements if he/she passes an interview by an SIIT interviewing committee consisting of 3 native English speaking instructors.

**Qualification:**

Applicants’ qualification	Master of Science Program in Engineering and Technology	
	Plan A1	Plan A2
<b>Education level</b>	A bachelor’s degree from SIIT.	A bachelor’s degree in engineering, science, or a related field that is accepted by the SIIT Executive Committee.
<b>GPA</b>	A top 20% class rank for a bachelor’s degree, or a cumulative GPA of at least 2.75, or 2.50 with sufficient relevant research or work experience as specified by the SIIT Executive Committee.	A top 20% class rank for a bachelor’s degree, or a cumulative GPA of at least 2.75, or 2.50 with sufficient relevant research or work experience as specified by the SIIT Executive Committee.
<b>Work experience</b>	-	-
<b>Engineering and Technology research experience</b>	-	-
<b>English language proficiency</b>	TOEFL (Paper based) = 400 TOEFL (Computer based) = 97 TOEFL (Internet based) = 32 IELTS = 4.5 TU-GET = 400 TOEIC = 500  The score must not be older than two years from the date, on which it was issued, to the date of the application for admission to the program.  In the case of no English score or a score less than the above requirements, the applicant may be admitted with conditions that he/she must take SIIT English remedial courses and/or SIIT English	TOEFL (Paper based) = 400 TOEFL (Computer based) = 97 TOEFL (Internet based) = 32 IELTS = 4.5 TU-GET = 400 TOEIC = 500  The score must not be older than two years from the date, on which it was issued, to the date of the application for admission to the program.  In the case of no English score or a score less than the above requirements, the applicant may be admitted with conditions that he/she must take SIIT English remedial courses and/or SIIT English



	<p>proficiency tests, and meet the requirements set by the institute.</p> <p>Exemption: An applicant who is a native English speaking student from Australia, Canada, New Zealand, United Kingdom, or USA may be exempted from the above English proficiency requirements if he/she passes an interview by an SIIT interviewing committee consisting of 3 native English speaking instructors.</p>	<p>proficiency tests, and meet the requirements set by the institute.</p> <p>Exemption: An applicant who is a native English speaking student from Australia, Canada, New Zealand, United Kingdom, or USA may be exempted from the above English proficiency requirements if he/she passes an interview by an SIIT interviewing committee consisting of 3 native English speaking instructors.</p>
<b>Special qualification</b>	-	-

**Document required:**

1. At least one page of a statement of purpose
2. Curriculum Vitae (CV) or Resume
3. A copy of official transcript of bachelor's degree
4. A copy of an official certificate of English proficiency, as follows (if any):  
TOEFL (PBT 400+) or (CBT 97+) or (IBT 32+) or IELTS 4.5+, or TU-GET 400+, or TOEIC 500+
5. A copy of citizen ID card/passport
6. Research papers, publications, or certificates (if any)
7. A recent photograph (1x1.5 inches' size as .jpeg only)

Remark: Please provide the names and official e-mail addresses of two referees in the online application form. (At least one referee must be your academic/thesis advisor and the other one should be an instructor in your university.)

**Contact:**

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 Chairperson of curriculum  
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\*\*\*Please remind that the application will complete when TICA receive the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible/territories.

**Course Detail**  
**Master of Science Program in Biopharmaceutical Sciences**

<b>Course Title:</b>	MASTER OF SCIENCES PROGRAM IN BIOPHARMACEUTICAL SCIENCES (INTERNATIONAL PROGRAM)
<b>Master Degree:</b>	Master of Science (Biopharmaceutical Sciences)
<b>Academic Institution:</b>	Faculty of Pharmacy, Mahidol University
<b>Duration:</b>	2 years August 2020 – July 2022

**Background and Rational:**

The philosophy of Biopharmaceutical Sciences program is to nurture and value fundamental research to catalyze a new innovation platform. The mission of Biopharmaceutical Sciences program is to provide prospective and current graduate students with an educational and research environment that fosters personal and intellectual growth and develops career paths through necessary training with emerging technologies.

The program offers graduate degree programs as follows:

A Master of Science degree program offers M.Sc. (Biopharmaceutical Sciences) degree with two concentration tracks:

A non-coursework Master's degree program that supports the needs of persons seeking graduate education to enhance and expand their career options. The students must have at least 3 years of experience in health science or related disciplines in sciences. Additionally, at least one research publication is also required to enter the program.

A coursework Master's degree program that fosters close collaboration between research and academic needs. It is designed for students who seek academic careers or positions in research and development (R&D) industry.

The Biopharmaceutical Sciences program offers four major concentrations which will define the required coursework under responsibility of four departments: biochemistry, microbiology, pharmacology and physiology. The program provides a Master's degree for the student who holds a Bachelor's degree and would like to enhance the professional competence. Upon completion of the studies, the graduate would become a specialist in the field of pharmaceutical-related biological sciences and ready to work with either academic, research, public health or industrial pharmaceutical institution.

Research in biopharmaceutical sciences requires an interdisciplinary approach, which integrate knowledge in biochemistry, microbiology, pharmacology and physiology. On-going research activities involve in fundamental and applied research on biopharmaceutical sciences to develop novel drugs and acquire knowledge in molecular mechanism of diseases. In addition, biotechnology approaches are also area of interest.

**Objectives:**

1. Have high moral standard and ethics.
2. Have knowledge and understanding of principles in the biopharmaceutical sciences related to the field of microbiology, biochemistry, pharmacology and physiology.
3. Have skills in creating quality research, can analyze problem as well as apply knowledge of the biopharmaceutical sciences for new knowledge and development of sciences and technology.
4. Have interpersonal relationship and social responsibility.
5. Have analytical, communication and information technology skills.



**Course Synopsis and Methodology:****Study plan**

M.Sc. in Biopharmaceutical Sciences Program

**Plan A1**

Research M.Sc. Thesis 36 credits

**Plan A2**

Year	Semester 1	Semester 2
1	Cell and Molecular Biology (3 credits) Research Methodology in Pharmacy I (2 credits) Biostatistics (3 credits)  <u>Course by Major area (8 credits)</u>	Seminar in Biopharmaceutical Sciences (1 credits) Elective courses (6 credits)
2	Special Topics in Biopharmaceutical Sciences (1 credits) Research M.Sc. Thesis (12 credits)	

**Course Content**

	Plan A Segment A1	Plan A Segment A2
(1) Core courses	not count Credits	10 Credits
(2) Compulsory courses	---	8 Credits
(3) Elective courses	---	6 Credits
(4) Thesis	36 Credits	12 Credits
Not less than	36 Credits	36 Credits

**Graduation Conditions:**

Thesis defense	At least 3 months after proposal exam	At least 3 months after proposal exam
<b>Graduate and Exit assessment</b>	Passed English Proficiency test Passed thesis defense Paper publication (at least 1) Exit interview	Passed English Proficiency test Passed thesis defense Paper publication or Conference proceeding (at least 1) Exit interview

**Applicant Qualifications**

	B.Sc. Graduated (Plan A1)	B.Sc. Graduated (Plan A2)
<b>Entrance Assessment</b>	GPA $\geq$ 2.75 Research experience > 3 years Publication $\geq$ 1 English Proficiency test Interview	GPA $\geq$ 2.5 English Proficiency test Interview



**Document Required**

- TIPP Application form
- Medical Report
- <http://tica.thaigov.net/main/en/relation/75500-TIPP-Application-form.html>
- Transcript
- Recommendation Letter
- English Proficiency Test Report

**Contact:**

Assoc.Prof. Mullika Chomnawang  
Program Director  
Faculty of Pharmacy, Mahidol University  
E-mail: [mullika.tra@mahidol.ac.th](mailto:mullika.tra@mahidol.ac.th)  
Tel or Fax: 662-6448692

\*\*\*Please remind that the application will complete when TICA receive the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible/territories.

**Course Detail**  
**Master of Arts Program in Asia Pacific Studies**

<b>Course Title:</b>	Master of Arts Program in Asia Pacific Studies (International Program)
<b>Master Degree:</b>	Master of Arts (Asia Pacific Studies)
<b>Academic Institution:</b>	Thammasat Institute of Area Studies (TIARA), Thammasat University
<b>Duration:</b>	18 months (August 2020 - January 2022) 3 semesters + 1 summer semester

**Background and Rational:**

Master of Arts in Asia-Pacific Studies (MAPS) Program is an interdisciplinary graduate program that is designed for internationally – focused students who wish to obtain an in-depth understanding of the Asia-Pacific region through multi-faceted and inter-disciplinary lenses.

MAPS is the first graduate program in Thailand which examines the entire Asia-Pacific region in all its complexities. The Asia-Pacific region is one of the most dynamic and diverse regions in the world. It is the home of more than 4.3 billion people and accounts for more than half of global economic activities. Trade and development have given rise to international economic cooperation, ranging from small regional forums to large-scale collaborations such as APEC (Asia-Pacific Economic Cooperation) and ASEAN.

MAPS program provides students with the opportunity to deepen their knowledge not only on the said academic disciplines. Students will also study various contemporary issues related to sustainable development in the region. The program adopts multidisciplinary approach that allows them to integrate study of economics, law, international relations, and public policies to give students an understanding of contemporary regional issues. These issues are directly related to the following *Sustainable Development Goals*: Goal 2 (Zero hunger), Goal 4 (Quality education), Goal 5 (Gender equality), Goal 8 (Decent work and economic growth), Goal 9 (Industry, innovation and infrastructure), Goal 10 (Reduced inequalities) and Goal 13 (Climate change).

The Asia-Pacific region is also the home of 700 million youth whose ambitions and abilities can contribute to the prosperous, peaceful, and sustainable future of the region. Investing in youth is an investment for the future. Our students will be trained and empowered for a sustainable future that requires a better understanding of their needs, interests, challenges, and potential may it be domestically or internationally.

MAPS is a truly international program with more than 80 per cent of international students. Students at MAPS program come from ASEAN member states and countries in the Asia-Pacific such as Bhutan, Japan, and China. The majority of them works in public and higher education sectors, that is, civil service officers at Ministry of Foreign Affairs and university lecturers. When they graduate, they will go back and become the driving force for sustainable developments in their counties.

Followings are examples of the Thesis studies by MAPS graduates. These theses are related to SDGs Goal.

**Goal 2—Zero hunger:** End hunger, achieve food security and improved nutrition and promote sustainable agriculture.

The Evaluation of Japanese ODA to Vietnamese Farmers  
 Effects of Agricultural Policies on Rice Industry in Myanmar



**Goal 4—Quality education:** Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

Education Reform in Myanmar: A Case of Two Technological Universities

**Goal 5—Gender equality:** Achieve gender equality and empower all women and girls.

Study on the Role of Entrepreneurship in the Textile Sector Industry in Bhutan

Women and Career Advancement in Brunei Darussalam: A Case Study of Women Working in Brunei Darussalam Government Sectors

**Goal 8—Decent work and economic growth:** Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.

Community- based Tourism in Creating Impacts for Rural Communities: A Case Studies Nglanggeran Tourist Village in Yogyakarta, Indonesia

Challenges Faced by Brunei's Micro and Small Entrepreneurs on the Utilization of Social Media as Online Marketing

The Effect of the Royal Decree on Managing the Work of Aliens B.E. 2560 (2017) on Myanmar Migrant Workers in Factories: Case Study of Four Selected Companies in Samut Sakhon Province

Factors Affecting Foreign Direct Investment (FDI Inflows to Lao PDR

Factors Attracting Investors to Invest in Laos: Case Study of Savan Seno Special Economic Zone

Corporate Social Responsibility in Vietnam State-owned Enterprises: A Comparative Analysis of PVEP and VTC

The Influence of Government Policy on the Return of Overseas Vietnamese in the Information and Communication Technology Sector

**Goal 9—Industry, innovation and infrastructure:** Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

Determinant Factors of Tuna Canneries Performance in Indonesia and Thailand: A Comparative Perspective

Analysis of the Effect of the Trans-Pacific Partnership Free Trade Agreement on the Vietnamese Apparel Industry

**Goal 10—Reduced inequalities:** Reduce inequality in and among countries.

Refugee Status Determination (RSD) Practices in Thailand

Inequality and Economic Development in Lao PDR since the 1986 Economic Reform

**Goal 13—Climate change:** Take urgent action to combat climate change and its impacts.

Disaster Management in Cambodia: Community- based Disaster Risk Management in the Case of Drought in Oral District

MAPS program allows the exchange of first-hand knowledge and experiences from international students particularly from APEC and ASEAN member countries. After graduation, graduates are equipped with knowledge of situations, phenomena, contemporary issues, and sustainable development in the Asia-Pacific region which can be applied to their careers in the public sector, diplomatic service, academic consultancies, international organizations, and sustainable development related career domestically and internationally.

MAPS Program are offered and administered by Thammasat Institute of Area Studies or TIARA at Thammasat University. TIARA starts off from a single center namely Thai APEC Study Center which works to foster research and academic discussions supporting the broader APEC mission of regional economic integration and a means to building networks of academic professionals in the region. TIARA has developed not only experience, but it also extends in term of networks, collaborations, academic exchanges and many more. At present, TIARA is a home to five Area Studies Centers – Thai APEC Study Center, the Australian Studies Centre, India Studies Center, Russia and CIS Study Center, and the ASEAN Study Center. These centers have their own



academic focuses and networks. This gives TIARA more resources and room to do academic activities within the context of 'Area Studies' and not limited to country or regional studies. For that reasons, TIARA becomes the institution with expertise in conducting academic and policy research, organizing seminars, trainings, workshops, and international conferences on issues in the Asia-Pacific region. Our knowledge and expertise have been continuously building up since the year 2000.

With its networks in Thailand and around the world, TIARA utilizes all resources and networks to benefit MAPS program. The program regularly welcomes visiting professors and guest lecturers as well as experts in the field to teach our students especially those institutes that signed MOUs with TIARA. These become a unique characteristic and strong point of the program in terms of teaching and research making MAPS a quality program that produce international standard quality graduates to fulfill MAPS's mission and vision, that is, to provide high quality graduate education, academic resources, training and professional developments as well as foster cultural learning and exchanging opportunities for graduate students and professional in the intellectual diverse environment.

The MAPS curriculum emphasizes interdisciplinary studies from professors, scholars, and professionals with high expertise in their fields. Students will learn to look deeper into topics from all aspects and perspectives, foster critical thinking and analytical ideas including to tackle topics from new directions, which will transform into a lifelong learning. Please see an attachment named List of MAPS Guest Lecturers (*attachment 1*) for your reference.

In addition to our human resources, MAPS had its own facilities. MAPS students are given the access to a dedicated research and study space to help fostering intellectual exchange and collaboration beyond the classroom.

Asia-Pacific Resource Center – the Resource Center, as our students called it, houses a relevant and accessible collection of Asia-Pacific related resource materials. The center provides space for information and cultural exhibition as well as acquired information and dissemination manuals, information and research about countries in the Asia-Pacific region. The center also provides modern, adequate, and efficient information center services, appropriate and comfortable learning environment on the use of resources for individual and group study for individual and group study.

MAPS Common Room – MAPS Common Room located at the 1<sup>st</sup> Floor of the Social Science Complex next to the Asia-Pacific Resource Center, is designed specially for MAPS students. It is primary space for students to hang out – whether for work on project or to spend time with each other. The MAPS Common Room is created with comfortable and welcoming environment features wireless internet access and lockers for student use. MAPS Common Room is divided into three Zones with different functions; 1 small classroom seated classroom style with the capacity of 40 people, 2 rooms with flexible furniture configuration with capacity for 20 people for group gathering or informal group meeting.

MAPS Classroom – a small fully equipped classroom with capacity for 20-25 students

MAPS co-working space – located in front of MAPS Classroom with capacity for 20-25 students

For more information about MAPS Program, course syllabus, and other related matters, please see an attachment named Introduction to MAPS Program (*attachment 2*).

Previous record of the graduation of students under MAPS Program are shown in the Table below.

Academic Year	Total number of Students	Total number of Students who graduated	%
2015	13	12	93
2016	17	13	77
2017	12	11	92

### Objectives:

Master of Arts in Asia- Pacific Program aims to prepare students for future challenges in sustainable manners and integrate knowledge of international economics, international relations, and international laws to the sustainable development as well as to promote sustainability mindset and encourage students and graduates to play their roles in fulfilling UN' SDG Goals, may it be in the domestic or international arena.

### Course Synopsis and Methodology:

#### Program Information

Program Length	18 months full-time/ 3 full semesters and 1 summer semester
Medium of Instruction	English Language
Class Size	20
Campus	Most courses are taught at Rangsit Center
Facilities	Asia-Pacific Resource Center and MAPS Common Room. Students will be given the access to dedicated research and study space to help foster intellectual exchange and collaboration beyond the classroom

#### Program Plan

Plan A	Credit	Plan B	Credit
Required courses	21	Required courses	21
Elective Courses	6	Elective Courses	12
Thesis	12	Independent Studies	6
Thesis Defense	-	Written Comprehensive Exam	-
Postgraduate International Conference (TU-CAPS)	-	Postgraduate International Conference (TU-CAPS)	-
<b>Total</b>	<b>39</b>	<b>Total</b>	<b>39</b>

#### Plan A

##### Semester 1 Year 1: 4 Subjects 12 credits

APS600	Foundation Asia-Pacific Studies	3 credits
APS612	Economic Development in ASEAN	3 credits
APS621	Political, Security, and Defense Strategies in the Asia-Pacific Region	3 credits
APS6xx	Elective Course: between Comparative Politics and Governments in the Asia-Pacific Region/ International Relations and Foreign Policy in the Asia-Pacific Region	3 credits



**Semester 2 Year 1: 4 Subjects 12 credits**

APS611	Economic Integration in the Asia-Pacific Region	3 credits
APS631	International Law and Regional Architecture in the Asia-Pacific Region	3 credits
APS681	Research Methodology	3 credits
APS6xx	Elective Core Course: choose between Contemporary Issues in the Asia-Pacific Studies/ Public Policy Studies	3 credits

**Summer Semester: 1 Subject 3 credits**

APS800	Thesis	3 credits
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**Semester 1 Year 2: 2 Subjects 12 credits**

APS6xx	Elective Course: between Comparative Politics and Governments in the Asia-Pacific Region/ International Relations and Foreign Policy in the Asia-Pacific Region	3 credits
APS800	Thesis	9 credits

**Plan B****Semester 1 Year 1: 4 Subjects 12 credits**

APS600	Foundation Asia-Pacific Studies	3 credits
APS612	Economic Development in ASEAN	3 credits
APS621	Political, Security, and Defense Strategies in the Asia-Pacific Region	3 credits
APS6xx	Elective Course: between Comparative Politics and Governments in the Asia-Pacific Region/ International Relations and Foreign Policy in the Asia-Pacific Region	3 credits

**Semester 2 Year 1: 4 Subjects 12 credits**

APS611	Economic Integration in the Asia-Pacific Region	3 credits
APS631	International Law and Regional Architecture in the Asia-Pacific Region	3 credits
APS681	Research Methodology	3 credits
APS6xx	Elective Core Course: choose between Contemporary Issues in the Asia-Pacific Studies/ Public Policy Studies	3 credits

**Summer Semester: 1 Subject 3 credits**

APS6xx	Elective Course: Selected Topics in Asia-Pacific Studies (Countries Studies)	3 credits
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**Semester 1 Year 2: 2 Subjects 6 credits**

APS6xx	Elective Course: between Comparative Politics and Governments in the Asia-Pacific Region/ International Relations and Foreign Policy in the Asia-Pacific Region	3 credits
APS6xx	Elective Course:	3 credits



**Semester 2 Year 2: 1 Subjects 6 credits**

APS6xx	Independent Studies	6 credits
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**Applicants Qualifications:**

A bachelor's degree in any field with a cumulative GPA of 2.5 and above from an accredited university. For those who wish to apply for a scholarship, applicants should at least have a cumulative GPA of 3.00 with an above average grade on the relevant subjects.

**Requirement for English Proficiency**

No.	English requirements	Minimum score
1	Paper based TOEFL	550
2	Computer-based TOEFL	213
3	Internet-based TOEFL	79
4	International English language Testing System (IELTS)	6.5
5	Thammasat University Graduate English Test (TU-GET)	550
6	Thammasat University Graduate English Test (TU-GET) CBT	550

Applicants can be accepted with conditions in the case of

IELTS:	$6.5 \geq 5.0$
TOEFL:	$550 \geq 400$
TU-GETS:	$550 \geq 350$

Applicants who cannot meet the minimum score of the above can reply to the program and submit the required score to the university before the registration day. English test results must not exceed 2 years by the time the applicants submit the results to the university.

Test results submitted with the admission application are valid evidence for graduation.

Please note that Thammasat University requires all students who have not submitted their English Proficiency Test Score to meet the minimum requirement score to submit their Official English Proficiency Test score before the final Thesis defense

4<sup>th</sup> year bachelor students who expect to graduate may apply by submitting a certified letter of expected date of graduation.

Complete applications and submitting all required documents.

As one of graduate requirement from Thammasat University, graduate students are required to present their thesis work at the International Conference. MAPS students are entitled to present their works at TU-CAPS, the annual international conference hosted by Thammasat Institute of Area Studies, Thammasat University.

**Document Required:**

Completed Online Application Form (at [www.maps-tu.org](http://www.maps-tu.org))

Official Academic Transcript (English version only)

Statement of Purpose (as appear in Online Application Form)

Proof of English Language Proficiency (IELTS, TOEFL, TU-GETS)

Two letters of Reference

Copy of Passport

ID Photo (Passport size)

Other additional supporting documents an applicant may want to submit such as certificates of training, letter of employment, etc.

**Contact:**

Assoc.Prof. Suphat Suphachalasai

Director of Thammasat Institute of Area Studies (TIARA)

Address: Thammasat Institute of Area Studies (TIARA)

Dome Administrative Building, Thammasat University (Rangsit Campus)

99 Moo 18 Paholyothin Road, Klong Luang, Rangsit, Prathumthani 12121

Tel: 02-564-3129

Mobile: 081-487-3339

Email: suphat@econ.tu.ac.th

**Programme Coordinator:**

Ms. Joy, Thanyawee Chuanchuen

MAPS Program Manager

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Dome Administrative Building, Thammasat University (Rangsit Campus)

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Mrs. Nuchanat Suparongnithipat

MAPS Program Coordinator

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Mobile: 086-019-9566

Email: maps.thammasat@gmail.com

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**Course Detail**  
**Master of Arts Program in Diplomacy and International Studies**

<b>Course Title:</b>	Master of Arts Program in Diplomacy and International Studies (International Program)
<b>Master Degree:</b>	Master of Arts (Diplomacy and International Studies)
<b>Academic Institution:</b>	The Institute of Diplomacy and International Studies (IDIS), school of Politics, Economics, and Globalization, Rangsit University
<b>Duration:</b>	2 Years (August 2020 – July 2022)

**Background and Rational**

IDIS was established on 22 of March, 2006, with an aim to meet the challenge of globalization and the increasing demand for world-class professionals in International affairs in Thailand and the Asian region.

DIS with its multi-disciplinary approach, became the first institute of its kind in Southeast Asia. The establishment of DIS is an important step in the implementation of Rangsit University's Road Map to excellence strategy, which created qualified graduates for the region and the world at large.

**Objective:**

Many career opportunities are open to IDIS graduates, especially in Southeast Asia and broader Asia where there is significant demand for graduates knowledgeable in politics, international relations and development studies. Opportunities include positions in government ministries, international organizations, non-governmental organizations, think tanks, the media, international businesses and educational institutions. To increase their opportunities many of our undergraduate students progress to postgraduate study at IDIS or at other universities across the globe.



**Course Synopsis and Methodology:**

Master of Arts Program in Diplomacy and International Studies (International Program)

**1<sup>st</sup> Year**

<b>PLAN A (Academic subjects, and Thesis)</b>	<b>PIAN B (Academic subjects, and Interdepend Studies)</b>
<p><b>Semister 1</b></p> <p>IDS 603 International Politics and Security 3(3-0-6)</p> <p>IDS 604 International Law and International 3(3-0-6)</p> <p>IDS 605 International Economics and 3(3-0-6) International Business</p> <p style="text-align: right;">Total 9 credits</p>	<p><b>Semister 1</b></p> <p>IDS 603 International Politics and Security 3(3-0-6)</p> <p>IDS 604 International Law and International 3(3-0-6)</p> <p>IDS 605 International Economics and 3(3-0-6) International Business</p> <p style="text-align: right;">Total 9 credits</p>
<p><b>Semister 2</b></p> <p>IDS 606 Global Perspectives on Public 3(3-0-6) Diplomacy</p> <p>IDS 607 Negotiations and conflict 3(3-0-6) resolution</p> <p>IDS 608 Political Economy of Asia 3(3-0-6)</p> <p style="text-align: right;">Total 9 credits</p>	<p><b>Semister 2</b></p> <p>IDS 606 Global Perspectives on Public 3(3-0-6) Diplomacy</p> <p>IDS 607 Negotiations and conflict 3(3-0-6) resolution</p> <p>IDS 608 Political Economy of Asia 3(3-0-6)</p> <p style="text-align: right;">Total 9 credits</p>

2<sup>nd</sup> Year

PLAN A (Academic subjects, and Thesis)	PIAN B (Academic subjects, and Interdepend Studies)
<p><b>Semister 1</b></p> <p>IDS 609 ASEAN Integration 3(3-0-6)</p> <p>IDS 661 Research Methodology 3(3-0-6)</p> <p>IDS 699 Thesis 3(0-6-3)</p> <p style="text-align: right;">Total 9 credits</p>	<p><b>Semister 1</b></p> <p>IDS 609 ASEAN Integration 3(3-0-6)</p> <p>IDS 661 Research Methodology 3(3-0-6)</p> <p>IDS xxx Elective 3(x-x-x)</p> <p style="text-align: right;">Total 9 credits</p>
<p><b>Semister 2</b></p> <p>IDS 699 Thesis 9(0-18-9)</p> <p style="text-align: right;">Total 9 credits</p> <p style="text-align: center;"><b>Total 36 Credits</b></p>	<p><b>Semister 2</b></p> <p>IDS xxx Elective 3(x-x-x)</p> <p>IDS xxx Elective 3(x-x-x)</p> <p>IDS 697 Comprehensive Examination 0(0-0-0)</p> <p>IDS 698 Independent Studies 3(x-x-x)</p> <p style="text-align: right;">Total 9 credits</p> <p style="text-align: center;"><b>Total 36 Credits</b></p>

**Applicants Qualifications:**

The program is open to students with or without prior knowledge of politics and international studies who wish to increase their understanding of globalization and

current events in international affairs. Students will gain a comprehensive understanding of various aspects of diplomacy and international relations, and also have the option to write a thesis/ an Independent Study in their chosen area of research.

**Document Required:**

Identification Card	House Registration
Passport (for foreign)	4 Photographs (1 Inch size)
Certificates Degrees	Transcripts
English Language Requirement (TOEIC score minimum 640, IELTS score minimum 5.5)	

**Contacts:**

The Institute of Diplomacy and International Studies, Rangsit University 52/347  
Muang Ake, Paholyothin Road, Lakhok, Pathumthani 12000 Thailand

Website: <https://www.rsu.ac.th/idis/> Tel. +6627916000 Ext. 4090 .

Email: [idis@rsu.ac.th](mailto:idis@rsu.ac.th)

H.E. Sompong Sanguanbun (Dean and Program Director): [sompong.s@rsu.ac.th](mailto:sompong.s@rsu.ac.th)

Nipa Arkarin (Administration): [nipa.a@rsu.ac.th](mailto:nipa.a@rsu.ac.th)

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**Course Detail**  
**Master of Arts Program in Diplomacy and International Studies**

<b>Course Title:</b>	Master of Arts Program in Social Development
<b>Master Degree:</b>	Master of Arts (Social Development)
<b>Academic Institution:</b>	Faculty of Social Sciences, Naresuan University
<b>Duration:</b>	2 years (from June 2020 - March 2022)

**Background and Rational:**

The United Nations' Sustainable Development Goals (SDGs) provided frameworks and guidelines for its member countries towards global development after 2015. Following this direction, Thailand formulates policies in meeting these goals and actively participates at the United Nations Conferences such as the Global Climate Change in 2015 (COP21) and the Cooperation of the CLMV Countries in 2017 (COP23), positioning itself as a sustainable development country. These external factors, coupled with global competitiveness, are affecting changes in the national development direction. Some of the distinct factors include the global power shift to Asia, rapid increase of the elderly population, awareness of showing greater social responsibility, using technology to spread information without borders, challenges to look after and protect children and adolescents from unwanted values, outbreaks of terrorism and new genetic diseases, and drug trafficking. Thus, the need to provide appropriate knowledge, ethics, and skills following the principles of human growth and development.

Promoting education in social development is one of the mechanisms of driving the development process. Each stage requires prudent "knowledge" in accordance with the Thai society's way of life, which has rapidly changed and caused conflicts among and between urban and rural societies. Hence, it is necessary for people in the community to be educated, develop open-mindedness, and meet the production and service requirements at the professional level.

Naresuan University aims to develop into a research university with academic excellence. It is the center of knowledge and information sources for communities in Thailand's lower northern region and promotes the importance of producing knowledgeable social developers.

Qualified students must have the characteristics of a **PROM -Participation, Researching, Organizing, and Management**. Specific elective courses shall be provided in the **Organizing and Management** for students' appreciation of their mission's value and strengthen their process of taking into consideration the development of a community's quality of life. Revitalizing public awareness and encouraging agencies to use results obtained from research and development benefits both local and national levels, thus causing sustainable development.

**Objectives:**

Graduates of this program are expected to:

- 1) Possess skills to promote the participation of all sectors. Being generous in listening to opinions from people at all levels and having the ability to coordinate policymakers into action for social development.
- 2) Apply knowledge from research to solve spatial problems by designing strategic planning for social development administration for a concrete solution consistent with the context of Thai society and culture.
- 3) Manifest efficient organization management skills in keeping up with the changing situation of the world society and technology and uphold social responsibility.
- 4) Exhibit adept resource management skills to ensure equal social development under limited conditions.

**Course Synopsis and Methodology:  
Study Plan**

**Study Plan, Type A 1**

Total of courses not less than 36 Credit

**Year 1 Semester 1**

- |   |          |
|---|----------|
| 1. Research Methodology in Social Science | 3 Credit |
| 2. Mixed Methods Research                 | 3 Credit |
| 3. Thesis 1, Type A 1                     | 9 Credit |

**Year 1 Semester 2**

- |                               |          |
|-------------------------------|----------|
| 1. Social Development Seminar | 1 Credit |
| 2. Thesis 2, Type A 1         | 9 Credit |

**Year 2 Semester 1**

- |                       |          |
|-----------------------|----------|
| 1. Regional Studies   | 1 Credit |
| 2. Thesis 3, Type A 1 | 9 Credit |

**Year 2 Semester 2**

- |                       |          |
|-----------------------|----------|
| 1. Thesis 4, Type A 1 | 9 Credit |
|-----------------------|----------|

**Thesis Plan**

<b>Time period</b>	<b>Thesis plan</b>
November 2020	Send thesis proposal
January 2021	Thesis proposal exam
April 2021	Data gathering
January 2022	Thesis exam

**Graduation Conditions:**

1. Follow the study plan as scheduled.
2. Enroll in all courses as specified.
3. Pass the English examination requirement specified by the university.
4. Propose the thesis and pass the oral examination.
5. The thesis or part of a thesis must be published as a research article in an international journal based on ISI Web of Science or Scopus.

**Applicant Qualifications**

- Bachelor's degree in any field.

**Document Required**

- Submit a research proposal that demonstrates academic readiness and indicates a quality research direction.

**Contact:**

- 1. Assistant professor Dr.Rudklaw Pampasit**  
Head of the Department Sociology and Anthropology  
Tel.081-6809615 E-mail: rudklaw@yahoo.com
- 2. Mrs.Thatsani Sawaspanich**  
Staff of the Department Sociology and Anthropology  
Tel.086-4404842 E-mail: thatsanici@nu.ac.th

\*\*\*Please remind that the application will complete when TICA receive the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible/territories.



**Course Detail**  
**Master of Arts (Public Policy)**

<b>Course Title:</b>	International Public Policy Program
<b>Master Degree:</b>	Master of Arts in Public Policy
<b>Academic Institution:</b>	School of Public Policy, Chiang Mai University
<b>Duration:</b>	1 Year (May 2020 – June 2021)

**Background and Rational**

Chiang Mai University School of Public Policy (CMU-SPP) is a public policy school, concurrently operating as a cutting-edge research and consulting organization, committed to solving complex and wicked public problems with inclusive, innovative, progressive, and sustainable policy solutions. The School was setup based on the idea that we need to tackle complex and wicked problems that are of public nature by not relying on only certain disciplines but rather by using multiple disciplines to define the problems and think of the solutions to these problems.

SPP, offering academic degree programs at the Master and PhD levels, is propelled by the notion that civic and civil challenges must be confronted by not solely relying on fixed disciplines; rather, multiple branches of knowledge should be employed for decoding the roots of problems and cultivating effective solutions. What is unique about our curriculum is that it focuses distinctively on big data analysis (quantitative) and policy communication (qualitative) aspects of policy analysis. While drawing faculty members from over 10 departments across the university: Engineering, Business and Administration, Commerce, Economics, Architecture, Political Science, Social Science, Geography, Pharmaceutical, Public Health, and Science.

The foundational essence supporting this topical issues based platform is that our research work is not merely about crafting concepts and theories. Our products concentrate on tangibly influencing public policies in ways that generate practical implications for changing the laws, issuing new regulatory systems, and crafting incentives that encourage behaviors which holistically serve the public good.

SPP is one of few public policy schools explicitly operating within the framework of the 2030 United Nations Agenda for Sustainable Development. This Agenda includes seventeen sustainable development goals (SDGs), addressing everything from poverty to climate action. While all policy schools selectively focus on SDGs, SPP's research work and training emphasizes peace and justice that is backed by strong and non-discriminatory institutions.

**Objectives**

Offering a practical academic degree program at the Master level that teach fundamentals of politics, public administration, economics, and social science based theories while uniquely blend society-based qualitative and science-supported quantitative methodology.

Training scholars and practitioners in skills related to public policy including policy-making, policy analysis, policy communication, and policy advocacy. Focused on deliberative processes, we educate about governance-based negotiation processes while exposing them to the social narratives connected with the root issues, and the actors, of development phenomena and their linked public problems.

Production of public policy specialists that are nationally and internationally recognized who generate top quality research products and platforms, with cross-disciplinary approach founded on reliable information that enhance public policy decisions.

For students to acquire the capacity for seeing critically beyond known facts with comprehension about the inter-linkages of deep-rooted public problems and global dynamic. Infused with empathetic deliberation skills necessary for discussing complex public issues, they become professional pracademics.

For graduates to move forward in life equipped with insight into and mastery about how sound public policies can be utilized for inclusive, innovative, progressive, and sustainable solutions to the most prominent public problems.

CMU-SPP aims to build core competencies of our scholars, staffs, and students in accordance to guidelines by the National Association of Schools of Public Affairs & Administration (NASPAA), in which we seek international accreditation. The competencies are as follows;

- Lead & Manage in Public Governance - The ability to lead and manage in public governance: energize people, mobilize resources in the pursuit of publicly defined policy goals.
- Participate in & Contribute to the Policy Process - Participation in and contribution to the policy process: participate substantively in the design, implementation, and evaluation of public policy.
- Analyze, synthesize, think critically, solve problems, and make decisions - The ability to analyze, synthesize, think critically, solve problems and make decisions: contribute ethically to decision-making through appropriate use of evidence that recognizes stakeholders' competing values.
- Articulate and apply a public service perspective - The ability to articulate and apply a public service perspective: demonstrate a commitment to improving social welfare and social justice.
- Communicate & Interact Productively with a diverse and changing workforce and citizenry - The ability to communicate and interact productively with a diverse and changing workforce and citizenry: professionally represent one's organization to stakeholders orally & in writing.

## **Course Synopsis and Methodology**

### **Study Plan**

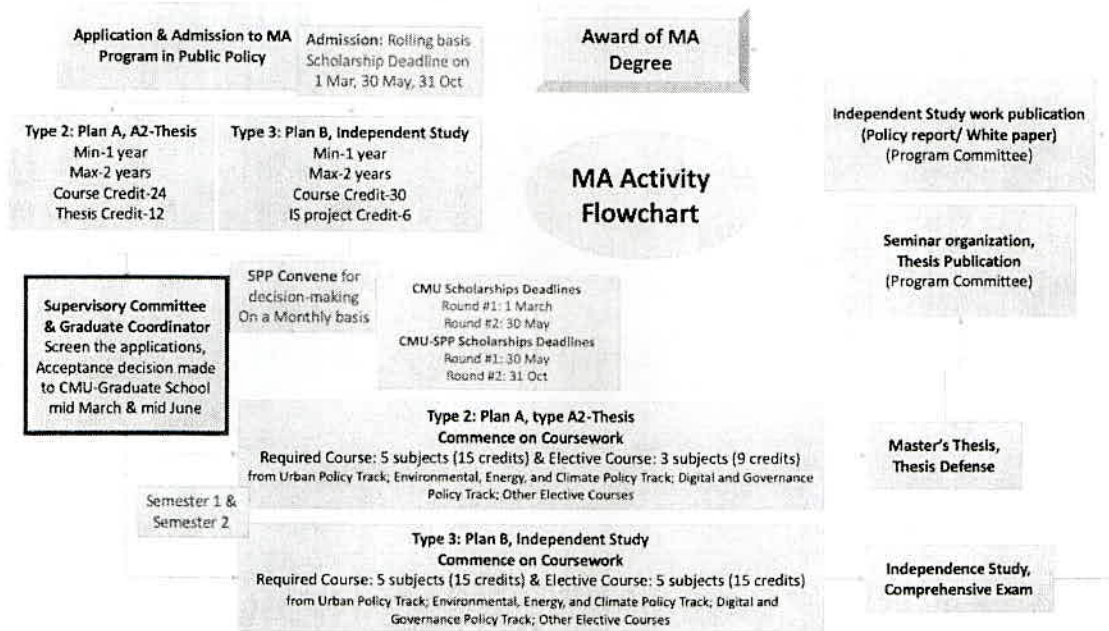
Master of Arts in Public Policy is a 36-credit program, consisting of five compulsory courses with focus areas including governance, urban policy, environmental policy, and climate change. The program is structured to be completed within 1 year, with additional one year grace period. Course works and academic activities provide training in critical thinking, public policy analysis, design thinking, and futures thinking.



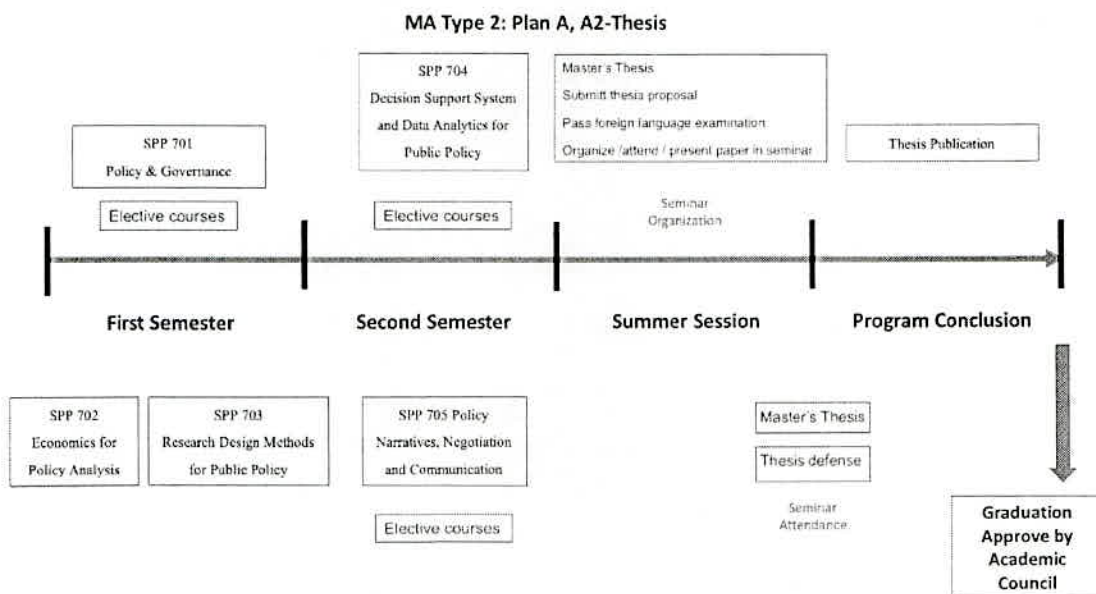
Students can choose between one of two plans; Plan A Type A2 is Coursework and a Thesis, or

Plan B is Coursework and Independent Study. In terms of specialization, student can choose a focus-track in 'Urban Policy,' 'Environmental, Energy, and Climate Policy,' or 'Digital Society and Governance Policy'

**Figure 1: Master of Arts in Public Policy Activity Flowchart**

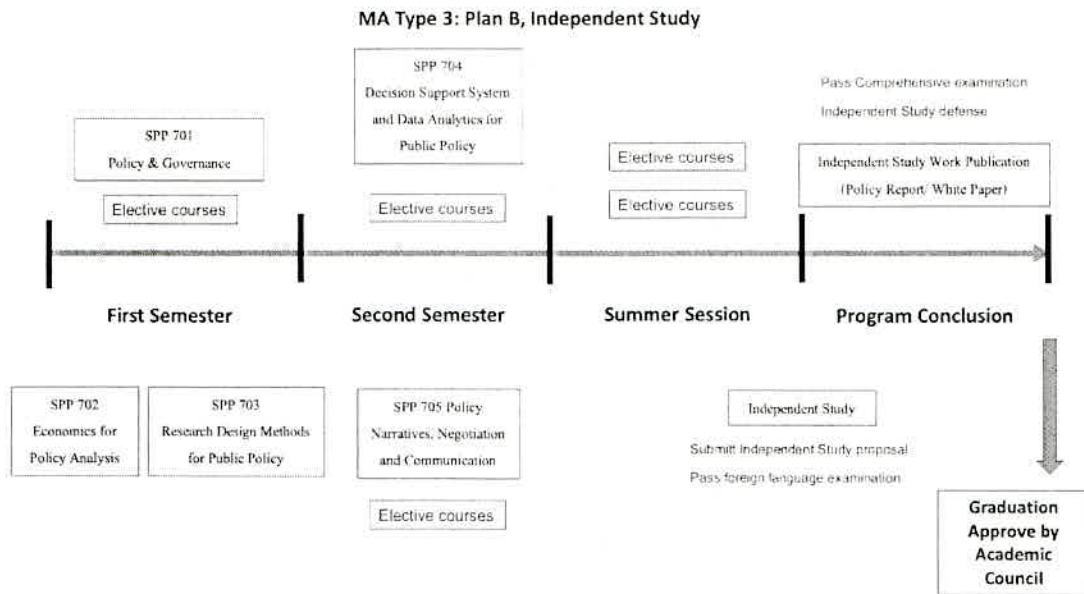


**Figure 2: Study Plan of Master of Arts in Public Policy (Plan A: Type A2)**





**Figure 3: Study Plan of Master of Arts in Public Policy (Plan B)**



**Course Content/ Study Topic**

Course Code	Course Description
<b>Required Courses</b>	
950701	<b>Public Policy and Governance</b> The importance of public policy, Introduction to wicked & complex problems, Problem identification and framing a scope. Public policy processes in theory and reality, Decision-making processes for policy-makers. Policy design and branding, Policy eco-systems and subsystems, Political implications in public policy, Stakeholder analysis and management, Policy management and administration. Sustainable development goals and public policy
950702	<b>Economics for Policy Analysis</b> Introduction to Economics and Public Policy, Development Economics and growth policy. Behavioral Economics for public policy. Economics of governance. Fiscal and monetary policy. Economic recession and financial crisis. Project feasibility and project evaluation. Economic impact assessment
950703	<b>Research Design and Methods for Public Policy</b> Nature of applied science and public policy, Designing social research. Research questions and purposes, Strategies for answering research questions. Concepts, theories, hypotheses, models. Literature reviews. Sources and selection of data. Data collection techniques, Data analysis techniques, Research validity, reliability, and ethics, Writing up research. Sample research designs in public policy

950704	<p><b>Decision Support System and Data Analytics for Public Policy</b> Introduction to Decision Support System and Data Analytic, Decision Making Theory, Decision Support System with Spread Sheet, Multi Criteria Decision Making (MCDM) in Public Policy: Analytic hierarchy process. Data Analytic and Intelligence System, Advanced Intelligent Systems and Guest Lecture: The case of People Express</p>
950705	<p><b>Policy Narratives, Negotiation and Communication</b> Introduction to policy narratives. Role of policy narratives in policy processes. Public policy and discourse analysis, Politics of policy narratives, The strategic use of policy narratives in practice, Public policy and negotiations. Public policy and negotiations in practice. Policy communication and branding. Policy communication in the era of information technology</p>
<b>Elective Courses</b>	
<b>Urban Policy Track</b>	
950711	<p><b>Fundamentals in Urban Studies under Global Perspective</b> Introduction: the brief history of urban studies. The fundamental concepts: from technical to multidisciplinary. The recent issues in urban studies. The new urban crisis and opportunities. Classic case studies</p>
950712	<p><b>Urban Planning and Design for Policy Makers</b> Introduction to Urban Planning and Design, and Planner and Designer Roles, Urban Definition, Human Settlements, Urban Origins, Urban Evolution, Urban Culture and Society, Urban Quality of Life in Urban design, Public Space and Public Life, Cities in the Global Context, Global Cities, Global Economy and Localism, History of Planning, Models of Planning, Planning Types and Styles of Planning, Conflict of Interest, Priorities, Debates in Planning, Planning Process, Levels of Planning and Locational Theory, Planning into Practice and Implementation</p>
950713	<p><b>Urban Habitation and Housing Policy</b> Housing Definition, its role and stakeholders, Housing as driver of urbanization and shaper of neighborhood. Slum and intervention into housing, Housing and discrimination. Trends shaping housing, Planning and policy interventions: community land trust, inclusionary zoning, creating diverse communities, and new urbanism. Demographic shifts, mismatches housing supply, deficient resources, and climate change</p>
950714	<p><b>Sustainable Urban Management and Governance</b> Course introduction to Sustainable Urban Management and Governance, Project and Process Management for Urban Development Theory and Practices, Sustainable urban development Concept and Practices, Different indicators of sustainability in evaluations of urban development projects, Elaborate and motivate forms of collaboration between important stakeholders for the development of sustainable solutions in the urban environment, Knowledge and arguments associated with the subject matter in dialogue with various parties</p>



950715	<p><b>Sustainable Cities</b> Study of relationship between Sustainable Components and Urban Development, Typology of Urban Development, Urban Architecture and cultural Landscape, Contemporary Urban Architecture and City Development, Sustainable Concepts, Strategies, and Guidelines for Urban Development, Land Use and Transportation Planning, New Urbanism and Smart Growth, Transit Oriented Development and Transit Design, Implementation of Design concepts for Sustainable Cities</p>
950716	<p><b>Urban System and Techniques for Policy Makers</b> Introduction to System and Complexity: Walking and watching cities. Social System Dynamics: Population and Economic, and City growth and urban models, Physical System Dynamics: Water, Transport, Energy, etc., Scenarios and scenario analysis: Game theory, simulation, and complex behaviors</p>
950717	<p><b>Cities Sports and Tourism</b> City and the World today, City life, Traveling, and Abilities, The City as a Special Place, Sports and Urban Life, Sports, Public Place, and City Revitalization, Arts in the City, Museum and Tourism, Neighborhoods, Communities, and Suburbanization, City dwellers, Travelers, and the Tourists in Global city, Sports, Tourism and City Development in the Global Age</p>
<b>Environmental, Energy, and Climate Policy Track</b>	
950721	<p><b>Environmental Policy</b> Introduction to Environmental Politics and Policy, History of Global Environmental Change, Environmental Impact of human Activity, Seminar on Global Environmental Change and Case study, Institutional Setting of Environmental Policy, Air Pollution and Policy, Water Pollution and Policy, Ground Pollution and Policy, Biodiversity and Forest Conservation, Seminar on Pollution Control and Environmental Conservation, Environmental Law and Institution, Environmental Economic Tools, Environmental Risk Assessment, Comparing Environment Policymaking around the World, Energy and Environment</p>
950722	<p><b>Global Climate Policy</b> Introduction to Climate Change and Its Relationship with Science and Society, The Emergence and Politicization of Climate Science, Institutionalization and Governance of Climate, Economic and Development Challenges of Climate Change, Lay Worldviews, perceptions and knowledges of Climate Change, Media Reporting of Climate Change, The Future Roles of Climate Experts, Institutions and the Public</p>
950723	<p><b>Climate Mitigation and Adaptation Policy</b> Climate Mitigation Policy: History and Our Scenarios, Emission Trading Scheme - Cap and Trade Approach, Greenhouse Gas and Carbon Accounting, Climate Mitigation Program and Urban Development, Examples - Reducing emissions from deforestation and forest degradation, Carbon Tax Scheme, and nationally determined contributions (NDCs), Carbon Market and Finance Workshop, Conceptual History and Policy Framework of Climate Adaptation, Adaptation, Vulnerability, Disaster Risk Reduction, Resilience and Transformation, Mainstreaming Climate Adaptation in Development, Overcoming Barriers to Adaptation: Thresholds, Values and Governance, Workshop and Presentation: Designing Policy for a Low Carbon and Resilient Community</p>



950724	<p><b>Energy Policy</b> Introduction Energy system and development. Imbalance resource allocation. Energy supply. Energy demand. Energy markets. Securing energy system and policy measures. Policy and planning of energy efficiency and conservation. Assessing energy policy</p>
950725	<p><b>Natural Resource Management</b> Historical / current issues and practices, Soils, Water, Basic ecological principles, Forest ecology and management. Coastal ecology and management. Global change biology. Wildlife ecology and management. Ecosystem goods and services</p>
950726	<p><b>Natural Disaster Management</b> Concepts of natural disasters and these multiple related causes and impacts. Concepts of integrated natural disaster management. Principle and process of natural disaster management. Analyses of potentials and limitation of natural disaster monument from Thai cases. Synthesis from cases studies for natural disaster management policies at national to community</p>
<b>Digital and Governance Policy Track</b>	
950731	<p><b>E-Governance</b> An overview of e-Governance, Roles of ICT in good governance. Benefits of e-Governance, Types of e-Governance, Models of e-Governance, Social media and governance. Policy framework for facilitating in e-Governance, Current issues and trends in e-Governance, Case studies of e-Governance in practices</p>
950732	<p><b>Digital Society and Governance</b> Overview of digital society, Internet of things in the networked world. Roles of big data in society, Smart city development, Privacy and digital society, Theorising digital society. Current issues and trends of digital society, Case studies of digital society practices</p>
950733	<p><b>Intellectual Property Management</b> Creations of Intellectual Properties, Acquisition of Intellectual Properties, Modern Intellectual Property Rights- Copyright and Related Rights, Patents, Trademarks, Trade Secrets, Geographical Indications, Layout-Designs of Integrated Circuits, Plant Variety Protection, Traditional Intellectual Property Rights - Traditional Knowledge, Folklore, Biological Diversity, Planning for Intellectual Property Rights, Misuse of Intellectual Property Rights, Monopolization using Intellectual Property Rights, Dispute Resolutions and Litigations of Intellectual Property Rights, Intellectual Properties and International Trades</p>
950734	<p><b>Social Media and Public Policy</b> Globalization, Modern technology and the political, economic and social changes, Online social media and the political participation in the digital communication age, The case study of online social media and the civil politics in Thailand by the instructor, The case study of online social media and political participation by the student. Using social media for public policy making and public relation. The case study on online social media and the IOT in for bureaucratic administration, Presenting social media innovation for policy making process, Conclusion and trend on the study of online social and public policy making</p>

950735	<p><b>ICT Literacy for Policy Makers</b>  Basic knowledge of Information Technology, Globalization and Information Technology. Practice using software to aid brainstorming activity on the Public Policy making research topic, Practice using software and mobile device to aid field data collecting, Practice using software to aid qualitative data analyzing. Practice using software to aid quantitative data analyzing, Creating citation with computer software. Creating e-Research by using computer software. Presenting research finding in the form of Webinar, Presenting research finding in the form of Online Video Presentation</p>
950736	<p><b>Virtual Sphere and Public Policy</b>  Definition, background and development of “virtual reality” and “virtual sphere”, Approaches to know how to divided public and private in virtual sphere. Political Economy policy and Communicative capitalism, state and surveillance policy in democracy of public sphere, Virtual cultural policy of good sharing and collective experiences of sensation, Formulation policy coping with conflicts and resistance, Case Study of European and US policy - making for virtual sphere, Case Study of Middle East policy - making for virtual sphere, Case study of China policy -making for virtual sphere, Case Study of Southeast Asia policy - making for virtual sphere</p>
<b>Other Elective Courses</b>	
950741	<p><b>Systems Modeling for Public Policy</b>  Introduction to System Modeling for Decision Makers, System Thinking in Public Policy and Static Modeling Method Concepts : Problem definition and model purpose, building theory with causal loop diagrams. System Dynamic Modeling: Building a model, Dynamics of stocks and flows, linking feedback with stock and flow structure, and Analyzing Systems and Creating Robust Policies, Guest Lecture: Modeling in A Practical World, Interactions of Operations, Strategy, and Human Resource Policy: The case of People Express</p>
950742	<p><b>Gender and Development Policy</b>  From women to gender: development of the gender and development studies, Sex, Gender, Gender’s role, and gender equality. Theoretical perspectives of gender and development. The United Nations’ policy on gender equality (the Convention on the Elimination of All Forms of Discrimination Against Women and the Sustainable Development Goals), Education policy, Health/maternal health policy, Work policy, Legal and civil rights, Property rights. Society and culture, state mechanism for promoting women’s rights</p>
950743	<p><b>Environment, Social and Health Impact Assessment</b>  Background, concept, law, policy and the steps of environment impact assessment (EIA), social impact assessment (SIA) and health impact assessment (HIA), screening, scoping, impact analysis, mitigation, impact management, reporting, evaluation, decision Making and case study, also integration between EIA, SIA and HIA</p>
950744	<p><b>Smart Evaluation for Public Program and Policy</b>  Policy dynamics and logics of evaluation appropriateness, Ethical dimensions of policy evaluation. Reframing policy problems for smart evaluation. Policy research and tools for smart policy evaluation. Case study of smart evaluation for policies and programs</p>
950799	<b>Master's Thesis</b>
950798	<b>Independent Study</b>



### Graduation Conditions

At least 1 publication or acceptance to publish in an international journal listed in ISI, Scopus, IEEE, PubMed or Web of Science databases.

### Application Qualifications

To be considered for the Master in Public Policy program, you must have either:

- A Bachelor degree with at least 2nd-class honors, upper division or an equivalent degree, such as a 4-year Bachelor degree with an average grade of B (3) or better (Scale 1-4)
- A good Bachelor degree
- Adequate level of proficiency in English as required by Chiang Mai University

Other qualifications and experience may be accepted subject to approval by the CMU-SPP Selection Committee.

### Document Required:

- Letter of Intent/ Motivation letter stating the type of policy interest.
    - It should be around 500 - 1,000 words in length, covering skills, experiences relevant to field of public policy, ambitions, motivations and interest in the public policy program.
  - CMU-SPP Master Program Application Form
  - Curriculum vitae
  - Academic certificates with transcripts from undergraduate level
  - Certified proficiency in English, awarded within the last 2 years: choices are between
    - TOEFL (500 points for paper based; 173 for computer based; 61 for internet-based test)
    - IELTS (score 5.5)
    - TEGS (at least 65)  
*This is not necessary for native English speakers or students who have had English as language of instruction at the university they previously studied at (certified by the university).*
  - Two letters of recommendation from people who are familiar with applicant's academic background and/ or professional experience. These letters have to be sent to CMU-SPP at [chirada.na@cmu.ac.th](mailto:chirada.na@cmu.ac.th) separately by the referees.
  - One photocopy of Thai National ID or Passport
  - Test results such as GRE, GMAT, list of publications (optional)
- Please assemble all required application documents in the above order into one PDF file,  
and email to [chirada.na@cmu.ac.th](mailto:chirada.na@cmu.ac.th) and cc: [spp@cmu.ac.th](mailto:spp@cmu.ac.th)  
The PDF file should be named as such: "CMU-SPP\_MA-Name Last name"...

### Contacts:

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\*\*\*Please remind that the application will complete when TICA receive the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible/territories.