Course Title
Master of Rural Development Management (International Program)

Master Degree: Master of Rural Development Management (MRDM)

Academic Institution: Graduate School, Khon Kaen University

Duration: One (1) academic year (15 months/ August 2019 – October 2020)

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 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, and defined social skills in the areas of human interaction and leadership.

Course Synopsis & Methodology:

The course comprises 36 credits, including 18 credits of required courses (Rural Development Theories; Politics and Economics of Rural Development; Evidence-based Rural Development Practices; Research and Statistics; Project management; Seminar; and Field Study), and 4 credits for elective courses. Students will also be required to complete a comprehensive examination and an independent study (6 credits).

Categories of Courses	Number of Credit Hours		
	Plan A Type A1	Plan A Type A2	Plan B
1. Major Required Courses	7 (Non-credits)	18	18
2. Major Elective Courses	-	6	12
3. Thesis	36	12	-
4. Free elective courses	-	-	6
Total credits in the program	**36**	**36**	**36**

Course Content/ Study Topic:

Plan A Type A1

1. 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)

2. Thesis

117 898	Thesis	36

Plan A Type A2, Plan B

1. 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

2. 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

3. Thesis

117 899	Thesis	12
617 897	Independent Study	6

Qualifications:

Applicants must satisfy the following criteria:

1. Possess a Bachelor Degree or equivalent in related field
2. Have at least 3 years of experience in rural development (applicants whose experiences are less than 3 years will be considered by Program Committee)
3. Applicants from a country where English is not the first language must enclose a TOEFL or IELTS test result with a minimum score of 470 (TOEFL) or 5.0 (IELTS). The result must not be more than two years.
4. Applicants in addition to the above requirements are in accordance with the curriculum committee's consideration.

Document Required:

1. Two (2) copies of the Application Form sealed with 2 photos
2. Two (2) references in signed and sealed envelopes
3. Transcripts of studies in English
4. English language certificate (e.g. TOEFL, IELTS), if available
5. A brief proposal for an independent study, including a topic, statement of the problems, objectives and expectations

Contacts:

Assoc.Prof.Dr.Somsak Srisontisuk
Department graduate, Khon Kaen University, Thailand
Tel: (+66)81-9546597
E-mail: somsri4@lkku.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

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

Master Degree: Master of Science (Bioscience for Sustainable Agriculture)

Academic Institution: Faculty of Animal Sciences and Agricultural Technology, Silpakorn University

Duration: Two (2) academic years (July 2019 – April 2021)

Objective:

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

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

Couse Synopsis and Methodology:

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

Couse Content/Study Topic:

The First year

First Semester		
715501	Cell Science and Molecular Biology	3(3-0-6)
715502	Sustainable Agriculture and Marketing	3(2-0-6)
715503	Research Methodology and Statistical Techniques	3(3-0-6)
715504	Seminar	1(1-0-2)
	Total	**10 credits**
Second Semester		
715505	Seminar 2	1(1-0-2)
715xxx	Elective Course	3(x-x-x)
715xxx	Elective Course	3(x-x-x)
	Total	**7 credits**

The Second year

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

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

Qualification:

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

Document required:

1. Certified copy of transcript of record
2. Certified copy of degree certified
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

Contract:

Dr. Narin Preyavichyapugdee
Faculty of Animal Sciences and Agricultural Technology,
Silpakorn University, Thailand
Tel: (+66)84-6488835
E-mail: narin.p@su.ac.th, jnnarin@hotmail.com

Closing date for Nominations: March 31, 2019
Late or incomplete applications/document will not be considered.

Course Title
Master of Science Program in Biodiversity and Environmental Management
(International Program)

Master Degree: Master of Science Program in Biodiversity and Environmental Management

Academic Institution: International College, Khon Kaen University

Duration: Two (2) academic years (August 2019 – July 2021)

Objectives:

The program aims to produce graduates with

1. High competence and independence in research ability.
2. High quality in biodiversity and environmental management.
3. Capability to utilize and apply knowledge to real situations through research.

Course Synopsis & Methodology:

This multi-disciplinary master program is designed to focus on cross functional roles and importance of biodiversity, environment and management in different contexts e.g. natural diversity (animals, plants, and micro-organisms) and environment, urban and rural development, utilization and sustainability of natural resources, climate change, technological and innovative breakthroughs. Various courses are offered in this program combined with research project through 12-credit thesis.

Categories of Courses	Number of Credit Hours	
	Plan A Type A1	Plan A Type A2
1. Core courses	-	12
2. Major Required Courses	-	-
3.Major Elective Courses	-	12
4.Thesis	-	12
Total credits	-	**36**

Course Content/ Study Topic:

Plan A Type A2

1. Core Courses

IC 307 001	Biodiversity and Conservation	3 credits
IC 307 002	Research Methodology in Biodiversity and Conservation	2 credits
IC 307 101	Environmental Planning and Management	3 credits
IC 307 891	Seminar in Biodiversity and Environmental Management	1 credits
IC 307 894	Special Problems in Biodiversity and Environmental Management	3 credits

2. Elective Courses

IC 307 003	Flora and Fauna of South East Asia	3 credits
IC 307 004	Tropical Ecology	3 credits
IC 307 005	Applied Microbiology	3 credits
IC 307 005	Applied Microbiology	3 credits

IC 307 006	Marine and Freshwater Environmental Biology	3 credits
IC 307 007	Taxonomy and Genetic Biodiversity	3 credits
IC 307 008	Advanced Entomology	3 credits
IC 307 102	Environmental Impact and Assessment	3 credits
IC 307 103	Sustainable Development and Management	3 credits
IC 307 104	Ecotourism and Management of Protected Areas	3 credits
IC 307 105	Nanotechnology and Environment	3 credits
IC 307 106	Fungal Diversity	3 credits
IC 307 107	Climate Change and Renewable Energy	3 credits

3. Thesis

IC 307 899	Thesis	12 credits

Qualifications:

Applicants must graduate bachelor's degree in related field e.g. biological sciences, chemical sciences, environmental sciences and management

Document Required:

1. Two (2) copies of the Application Form sealed with 2 photos
2. Two (2) references in signed and sealed envelopes
3. Transcripts of studies in English
4. English language certificate (e.g. TOEFL, IELTS), if available
5. A brief proposal for an independent study, including a topic, statement of the problems, objectives and expectations

Contacts:

Wuttiwat Jitjak, Ph.D.
International College,
Khon Kaen University, Thailand
E-mai: wuttiji@kku.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Environmental Science

Master Degree: Master of Science (Environmental Science)

Academic Institution: Faculty of Agriculture, Natural Resources and Environment, Naresuan University

Duration: Two (2) years (June 2019 – March 2021)

Course Synopsis & Methodology:

Candidates for the M.S. degree may select one of two options in order to fulfill the Graduate School requirements: a research based or a coursework based program.

Research based program (Type 1)

For Bachelor degree holder, who interest in the program by research (2 years program, total 36 credits)

Coursework based program (Type 2)

For Bachelor degree holder, who interest in the program by coursework and research (2 years program, total 36 credits).

Types	Type (Credits)	
	1	2
Course Work	-	24
1.1 Required Major Courses	-	12
1.2 Free Elective Courses	-	12
Dissertation	36	12
Non-credit courses	6	6
Total	**36**	**36**

Course Content/ Study Topic:

1. Dissertation

105591	Thesis 1, Type A1	9 credits
105592	Thesis 2, Type A1	9 credits
105593	Thesis 3, Type A1	9 credits
105594	Thesis 4, Type A1	9 credits
105595	Thesis 1, Type A2	3 credits
105596	Thesis 2, Type A2	3 credits
105597	Thesis 3, Type A2	6 credits

2. Core course

105511	Applied Environmental Science	3(3-0-6)
105512	Advanced Environmental Impact Assessment	3(2-3-5)
105513	Integrated Natural Resources and Environmental Management	3(2-3-5)
105514	Environmental Ecology	3(2-3-5)

3. Elective courses

105520	Fate and Transport of Contaminants in the Environment	3(2-3-5)
105521	Air Pollution and Control	3(2-3-5)

105522	Wastewater and Treatment Technology	3(2-3-5)
105523	Soil Pollution and Management	3(2-3-5)
105524	Agricultural Pollution and Management	3(2-3-5)
105525	Hazardous Waste and Management	3(2-3-5)
105526	Solid Waste and Management	3(2-3-5)
105527	Clean Technology	3(2-3-5)
105528	Wastewater Microbiology	3(2-3-5)
105529	Treatment Wetland	3(2-3-5)
105540	Conservation and Management of Soil Water and Forest Resources	3(2-3-5)
105541	Conservation and Management of Biodiversity Resources	3(2-3-5)
105542	Forest Resource Management	3(2-3-5)
105543	Aquatic Ecology	3(2-3-5)
105544	Tropical Ecology	3(2-3-5)
105545	Water Resource Management	3(2-3-5)
105546	Global Climate Change Ecology	3(2-3-5)
105547	Ecotourism Management	3(2-3-5)
105548	Integrated Watershed Management	3(2-3-5)
105551	Health Risk Assessment	3(2-3-5)
105552	Health Impact Assessment	3(2-3-5)
105553	Environmental Toxicology	3(3-0-6)
105554	Health Risk Management	3(2-3-5)
105555	Occupational Health	3(3-0-6)
105556	Exposure Assessment	3(2-3-5)
105561	Natural Resources and Environmental Economy	3(3-0-6)
105562	Application of Geo-Informatics for Natural Resources and Environment	3(2-3-5)
105563	Remote Sensing for Natural Resources and Environment	3(3-0-6)
105564	Urban Environmental Management	3(2-3-5)
105565	Environmental Laws and Policy	3(3-0-6)
105583	Selected Topics in Environmental Science	3(2-3-5)
4. Non-credit courses		
105581	Seminar 1	1(0-3-1)
105582	Seminar 2	1(0-3-1)
105598	Research Methodology in Science and Technology	3(3-0-6)
105599	Learning Skill for Graduate Studies	1(0-3-1)

Qualifications:

1. A bachelor's degree or its equivalent in all disciplines (for enrolled applicant in a topic of natural resource management and ecology conservation) and in discipline of Science, Medical Science, Engineering and Science Education (for enrolled applicant in a topic of environmental pollution and health impact assessment and) from an accredited institution

2. Cumulative GPA at graduation of 2.5 or higher for applicants in coursework based program

3. Work-experience at least 2 years in relevant sciences or academia is required for applicants in research based program and 1 year is required for applicants in coursework based program that hold GPA < 2.5

Document Required:

1. A photocopy of the official transcript, the official diploma or diploma certificate GPA not less than 3.00 (required for coursework based program)
2. A photocopy of the National ID card
3. A photograph with dimensions of 1 inch x 1 inch, no more than 6 months old at the date of application
4. Passing the Oral Defense of the Thesis
5. Academic presentation or publication
6. English Proficiency certificate is required for applicants who are not native English speakers. The score should be obtained within 2 years prior to application.
   - TOEFL paper based at least 470
   - TOEFL computer based at least 150
   - TOEFL internet based at least 50
   - IELTS at least 4.0
   - at least 51-59 for Cambridge Placement Test online (B1).

Contacts:

Lecture Chanyud Kritsunankul, Ph.D.
Program Chair
Faculty of Agriculture, Natural Resources and Environment
Naresuan University, Thailand
Tel: (+66)55-962751
E-mail: chanyud@gmail.com

Assist. Prof. Chanin Umponstira, Ph.D.
Program Committee
Faculty of Agriculture, Natural Resources and Environment
Naresuan University, Thailand
Tel: (+66)55-962754
E-mail: Chaninum@nu.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Geographic Information Science

Master Degree: Master of Science (Geographic Information Science)

Academic Institution: Faculty of Agriculture, Natural Resources and Environment, Naresuan University

Duration: Two (2) years (June 2019 – March 2021)

Course Synopsis & Methodology:

Candidates for the M.S. degree may select one of two options in order to fulfill the Graduate School requirements: a research based or a coursework based program.

Research based program (Type 1)

For Bachelor degree holder, who interest in the program by research (2 years program, total 36 credits)

Coursework based program (Type 2)

For Bachelor degree holder, who interest in the program by coursework and research (2 years program, total 36 credits).

Types	Type (Credits)	
	1	2
Course Work	-	24
1.1 Required Major Courses	-	12
1.2 Free Elective Courses	-	12
Dissertation	36	12
Non-credit courses	5	5
Total	**36**	**36**

Course Content/ Study Topic:

Plan A Type A1

1. Dissertation

104571	Thesis 1, Type A1	9 credits
104572	Thesis 2, Type A1	9 credits
104573	Thesis 3, Type A1	9 credits
104574	Thesis 4, Type A1	9 credits

2. Non – credits courses

104545	Research Methodology in Science and Technology	3(3-0-6)
104546	Seminar 1	1(0-3-1)
104547	Seminar 2	1(0-3-1)

Plan A Type A2

1. Required Major Courses

104541	Map and Visualization	3(2-2-5)
104542	Advanced Geographic Information System	3(2-2-5)
104543	Advanced Remote Sensing	3(2-2-5)

104544	Spatial Database Management System	3(2-2-5)
2. Free Elective Courses		
104551	Advanced Mapping and Visualization	3(2-2-5)
104552	Digital Image Analysis	3(2-2-5)
104553	Advanced Photogrammetry	3(2-2-5)
104554	Applied Remote Sensing	3(2-2-5)
104555	Web Mapping Application	3(2-2-5)
104556	Mobile Mapping	3(2-2-5)
104557	Development of Sensor Observation Service System for Spatial Information	3(2-2-5)
104558	Spatial Modeling	3(2-2-5)
104559	Spatial Decision Support Systems	3(2-2-5)
104560	Public Participation GIS	3(2-2-5)
104561	Special Topic in Geographic Information Science 1	3(1-4-4)
104562	Special Topic in Geographic Information Science 2	3(1-4-4)
3. Dissertation		
104575	Thesis 1, Type A 2	3 credits
104576	Thesis 2, Type A 2	3 credits
104577	Thesis 3, Type A 2	6 credits
4. Non-credit courses		
104545	Research Methodology in Science and Technology	3(3-0-6)
104546	Seminar 1	1(0-3-1)
104547	Seminar 2	1(0-3-1)

Qualification:

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 form 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 (Grade Point Average of 2.75 or higher)
2. Two letters of recommendation
3. TOELF (for student non – English speaking institutions)
   - Computer based: 213
   - Paper based: 550
   - iBT; 80 or IELTS: 6.5
4. Proposed Research Proposal (maximum 2 pages of A4 paper size)
   - Research Question
   - Purposes of Research
   - Reasearch Framework
   - Expected Results
   - Methology
   - References

Contacts:

Assist. Prof. Kampanart Piyathamrongchai, Ph.D.
Program Chair
Faculty of Agriculture, Natural Resources and Environment
Naresuan University, Thailand
Tel: (+66)55-962756
E-mail: p.kampanart@gmail.com

Assist. Prof.Capt.Dr. Anujit Vansarochana, Ph.D.
Program Committee
Faculty of Agriculture, Natural Resources and Environment
Naresuan University, Thailand
Tel: (+66)55-962753
E-mail: AnujitV@nu.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Energy Technology (International Program)

Master Degree: Master of Science (Energy Technology)

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

Duration: Two (2) academic years (August 2019 – July 2021)

Course Synopsis & Methodology:

Compulsory Course	10 credits
Elective Courses	9 credits
Thesis	21 credits
Total program credits	**40 credits**

Course Content/ Study Topic:

1. Compulsory courses

JEE 601	Seminar for M.Sc (Energy Technology)	1 (0-3-3)
JEE 606	Mathematical Techniques	3 (3-0-9) or
JEE 607	Optimization Techniques	3 (3-0-9)
JEE 613	Research Methodology	3 (3-0-9)
JEE 621	Energy Economics	3 (3-0-9)

2. Elective courses

JEE 603	Special Study I	3(3-0-9)
JEE 604	Special Study II	3(0-0-9)
JEE 605	Special Study III	3(0-9-9)
JEE 623	Principle of Accounting and Financial management	3(3-0-9)
JEE 624	Principle of Management and Administration	3(3-0-9)
JEE 625	Energy and Environmental Economics, Management and Policy	3(3-0-9)
JEE 629	Marketing Research	3(3-0-9)
JEE 631	Strategic Planning and Project Management	3(3-0-9)
JEE 632	Project Implementation and Control	3(3-0-9)
JEE 633	Energy Management in Industry	3(3-0-9)
JEE 634	Climate Influence on Buildings and End-use Requirements	3(3-0-9)
JEE 635	Building Utility Design and Waste Management	3(3-0-9)
JEE 636	Building Performance Assessment	3(3-0-9)
JEE 637	Daylighting Applications	3(3-0-9)
JEE 638	Advanced Topics in Building Energy Technology	3(3-0-9)
JEE 639	Building Economics and Finance	3(3-0-9)
JEE 642	Fuels and Combustion	3(3-0-9)
JEE 643	Energy System Modeling	3(3-0-9)
JEE 644	Power Plant Engineering	3(3-0-9)
JEE 645	Clean Technologies for Solid Fuels	3(3-0-9)
JEE 647	Design of Suitable Urban Ecology	3(3-0-9)

JEE 651	Heat and Power Generation Technologies	3(3-0-9)
JEE 652	Natural Gas Utilization Technologies	3(3-0-9)
JEE 653	Solar Energy	3(3-0-9)
JEE 654	Oil and Natural Gas Technologies	3(3-0-9)
JEE 655	Energy Technology	3(3-0-9)
JEE 656	Energy Efficiency	3(3-0-9)
JEE 657	Catalytic Processes and Reaction Engineering	3(3-0-9)
JEE 658	Renewable Energy Technologies	3(3-0-9)
JEE 659	Energy from Biomass	3(3-0-9)
JEE 661	Tropical Climates and Boundary Layer Science	3(3-0-9)
JEE 662	Atmospheric Dynamics	3(3-0-9)
JEE 663	Mathematical Model on Air Pollution with Applications	3(3-0-9)
JEE 664	Atmospheric and Air Quality Modeling	3(3-0-9)
JEE 666	Atmospheric Science	3(3-0-9)
JEE 667	Environmental Pollution Control Technology	3(3-0-9)
JEE 671	Life Cycle Assessment	3(3-0-9)
JEE 673	Waste and Climate Change	3(3-0-9)
JEE 674	Waste to Energy	3(3-0-9)
JEE 681	Environmental Chemistry and Toxicology	3(3-0-9)
JEE 682	Environmental and Health Risk Assessment	3(3-0-9)
JEE 683	Energy and Environment	3(3-0-9)
JEE 684	GIS and Remote Sensing	3(3-0-9)
JEE 685	Climate change: Physical Science Basis	3(3-0-9)
JEE 687	Biogeochemistry	3(3-0-9)
JEE 691	Climate Change Policy	3(3-0-9)
JEE 694	Carbon Mechanism Managementand and Business	3(3-0-9)
JEE 695	Greenhouse Gas Mitigation Technology	3(3-0-9)
JEE 696	Greenhouse Gas Measurement, Monitoring and Accounting	3(3-0-9)
JEE 697	Energy Outlook and Green House Gases Emissions in ASEAN	3(3-0-9)
JEE 698	Carbon Trading	3(3-0-9)
JEE 703	Selected Topics I	3(3-0-9)
JEE 713	Selected Topics II	3(3-0-9)

3. Thesis

JEE 609	Dissertation for M.Sc (Energy Technology)	21 credits

Qualifications:

The applicant must hold a first degree in engineering, science, economics or related fields with the least final GPA of 2.75 or is placed in the top 25% of the class. Other applicants may be admitted on conditions that they receive approvement from JGSEE Executive Committee.

In all programmes, the applicants should consult with their would-be supervisor on the possible thesis topic before applying. Potential applicants should also observe that the teachings are conducted in English, therefore, they should have a good command of the language.

Document Required:

1. Two (2) copies of the Application Form sealed with 2 photos
2. Two (2) recommendation letters

3. Transcripts of studies in English
4. English language certificate (e.g. TOEFL, IELTS), if available
5. A brief proposal for an independent study, including a topic, statement of the problems, objectives and expectations

Contacts:

Assoc.Prof.Dr.Kasemsan Manomaiphiboon
The Joint Graduate School of Energy and Environment (JGSEE),
KMUTT, Thailand
E-mail: kasemsan_m@jgsee.kmutt.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Environmental Technology (International Program)

Master Degree: Master of Science (Environmental Technology)

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

Duration: Two (2) academic years (August 2019 – July 2021)

Course Synopsis & Methodology:

Compulsory Course	10 credits
Elective Courses	9 credits
Thesis	21 credits
Total program credits	**40 credits**

Course Content/ Study Topic:

1. Compulsory courses

JEE 606	Mathematical Techniques	3(3-0-9) or
JEE 607	Optimization Techniques	3(3-0-9)
JEE 611	Seminar for M.Sc (Environmental Technology)	1(0-3-3)
JEE 613	Research Methodology	3(3-0-9)
JEE 621	Energy Economics	3(3-0-9)

2. Elective courses

JEE 603	Special Study I	3(3-0-9)
JEE 604	Special Study II	3(0-0-9)
JEE 605	Special Study III	3(0-9-9)
JEE 623	Principle of Accounting and Financial management	3(3-0-9)
JEE 624	Principle of Management and Administration	3(3-0-9)
JEE 625	Energy and Environmental Economics, Management and Policy	3(3-0-9)
JEE 626	Energy and Environmental Econometric Modeling and Analysis	3(3-0-9)
JEE 629	Marketing Research	3(3-0-9)
JEE 631	Strategic Planning and Project Management	3(3-0-9)
JEE 632	Project Implementation and Control	3(3-0-9)
JEE 633	Energy Management in Industry	3(3-0-9)
JEE 634	Climate Influence on Buildings and End-use Requirements	3(3-0-9)
JEE 635	Building Utility Design and Waste Management	3(3-0-9)
JEE 636	Building Performance Assessment	3(3-0-9)
JEE 637	Daylighting Applications	3(3-0-9)
JEE 638	Advanced Topics in Building Energy Technology	3(3-0-9)
JEE 639	Building Economics and Finance	3(3-0-9)
JEE 642	Fuels and Combustion	3(3-0-9)
JEE 643	Energy System Modeling	3(3-0-9)
JEE 644	Power Plant Engineering	3(3-0-9)
JEE 645	Clean Technologies for Solid Fuels	3(3-0-9)

JEE 647	Design of Suitable Urban Ecology	3(3-0-9)
JEE 651	Heat and Power Generation Technologies	3(3-0-9)
JEE 652	Natural Gas Utilization Technologies	3(3-0-9)
JEE 653	Solar Energy	3(3-0-9)
JEE 654	Oil and Natural Gas Technologies	3(3-0-9)
JEE 655	Energy Technology	3(3-0-9)
JEE 656	Energy Efficiency	3(3-0-9)
JEE 657	Catalytic Processes and Reaction Engineering	3(3-0-9)
JEE 658	Renewable Energy Technologies	3(3-0-9)
JEE 659	Energy from Biomass	3(3-0-9)
JEE 661	Tropical Climates and Boundary Layer Science	3(3-0-9)
JEE 662	Atmospheric Dynamics	3(3-0-9)
JEE 663	Mathematical Model on Air Pollution with Applications	3(3-0-9)
JEE 664	Atmospheric and Air Quality Modeling	3(3-0-9)
JEE 666	Atmospheric Science	3(3-0-9)
JEE 667	Environmental Pollution Control Technology	3(3-0-9)
JEE 671	Life Cycle Assessment	3(3-0-9)
JEE 673	Waste and Climate Change	3(3-0-9)
JEE 674	Waste to Energy	3(3-0-9)
JEE 681	Environmental Chemistry and Toxicology	3(3-0-9)
JEE 682	Environmental and Health Risk Assessment	3(3-0-9)
JEE 683	Energy and Environment	3(3-0-9)
JEE 684	GIS and Remote Sensing	3(3-0-9)
JEE 685	Climate change: Physical Science Basis	3(3-0-9)
JEE 687	Biogeochemistry	3(3-0-9)
JEE 691	Climate Change Policy	3(3-0-9)
JEE 694	Carbon Mechanism Managementand and Business	3(3-0-9)
JEE 695	Greenhouse Gas Mitigation Technology	3(3-0-9)
JEE 696	Greenhouse Gas Measurement, Monitoring and Accounting	3(3-0-9)
JEE 697	Energy Outlook and Green House Gases Emissions in ASEAN	3(3-0-9)
JEE 698	Carbon Trading	3(3-0-9)
JEE 703	Selected Topics I	3(3-0-9)
JEE 713	Selected Topics II	3(3-0-9)

3. Thesis

JEE 615	Dissertation for M.Sc (Environmental Technology)	21 credits

Qualifications:

The applicant must hold a first degree in engineering, science, economics or related fields with the least final GPA of 2.75 or is placed in the top 25% of the class. Other applicants may be admitted on conditions that they receive approvement from JGSEE Executive Committee.

In all programmes, the applicants should consult with their would-be supervisor on the possible thesis topic before applying. Potential applicants should also observe that the teachings are conducted in English, therefore, they should have a good command of the language.

Document Required:

1. Two (2) copies of the Application Form sealed with 2 photos
2. Two (2) Recommendation Letters
3. Transcripts of studies in English
4. English language certificate (e.g. TOEFL, IELTS), if available
5. A brief proposal for an independent study, including a topic, statement of the problems, objectives and expectations

Contacts:

Assoc.Prof.Dr.Amnat Chidthaisong
The Joint Graduate School of Energy and Environment (JGSEE),
KMUTT, Thailand
Tel: (+66)2-470-8309 Ext. 4119
E-mail: amnat_c@jgsee.kmutt.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program In Earth System Environment

Master Degree: Master of Science (Earth System Environment)

Academic Institution: Faculty of Environmental Management
Prince of Songkla University, Hatyai campus

Duration: Two (2) academic years (August 2019 – May 2021)

Objective:

To educate master students who are able to efficiently apply their knowledge of earth system environment and science to be the basement of the sustainable development morally for both national and international level.

Course Synopsis and Methodology:

Number of the total credits not less than 36 credits

Plan A; A1 (Research plan)	**36 credits**
-Thesis	36 credits
Plan A; A2 (Coursework and research plan)	**36 credits**
-Compulsory courses	9 credits
-Elective courses	9 credits
-Thesis	18 credits

Course Content/Study Topic:

Compulsory courses	**9 credits**	
837-501	(Earth System Environment and Sustainability)	3(3-0-6)
837-502	(Advanced Earth System Research Methodology)*	3(3-0-6)
837-503	(System Sciences)**	3(3-0-6)
837-504	(Seminar I)***	1(0-2-1)
837-505	(Seminar II)***	1(0-2-1)

* Compulsory for graduate student
** Compulsory for graduate student plan 2.2
*** No credit (Result in grade of S=Pass, U= Fail)

Elective Courses	**9 credits**	
825-520	(International Environmental Policy)	3(3-0-6)
826-516	(Policies and Actions for Sustainable Development)	3(3-0-6
830-520	(Lake Basin Management)	3(2-1-6)
830-602	(Climate Change and Ecosystem)	3(3-0-6)
837-511	(Sustainability Sciences)	3(3-0-6)

837-512	(Global Environmental Change, Impact Mitigation, and Adaptation Planning)	3(3-0-6)
837-513	(Climate Change Vulnerability and Adaptation)	3(3-0-6)
837-514	(Atmospheric Air Pollution)	3(3-0-6)
837-515	(Climate and Global Warming)	3(3-0-6)
837-516	(Advanced Weather and Climate Analysis and Forecasting)	3(3-0-6)
837-517	(Atmospheric Boundaries Layer Science)	3(3-0-6)
837-518	Tsunami and Storm Surge Analysis	3(3-0-6)
837-519	Geohazards and Adaptation	3(3-0-6)
837-520	(Advanced Modeling for Earth System Environment)	3(2-2-5)
837-521	(Remote Sensing and Geoinformatics for Global Change)	3(2-2-5)
837-522	(Sustainable Equator Environment)	3(3-0-6)
837-523	(Biodiversity, Ecosystem Resilience and Adaptation)	3(3-0-6)
837-524	(International Environmental Law)	3(3-0-6)
837-525	(Green Growth and Sufficiency Economy)	3(3-0-6)
837-526	(Basin Evolution, Process and Analysis)	3(2-1-6)
837-527	(Coastal Environmental Change)	3(3-0-6)
837-528	(Flood Risk Management)	3(3-0-6)
837-541	(Special Topics in Environment Earth System I)	3(3-0-6)
837-542	(Special Topics in Environment Earth System II)	3(3-0-6)
837-606	(The Earth and Ecosystem Management)	3(3-0-6)

Thesis

837-800	(Thesis for plan A2)	18(0-54-0)
837-801	(Thesis for plan A1)	36(0-108-0)

Qualification:

Applicants' qualification	Master of Science Program In Earth System Environment	
	Plan A1	**Plan A2**
Education level	Bachelor degree or equivalent in the field of Science and Engineering or any other related fields	Bachelor degree or equivalent in the field of Science and Engineering or any other related fields
GPA	3.00 or above	2.50 or above
Work experience	-	-
Environmental research experience	Research experience in earth system environment or related fields	Research experience in earth system environment or related fields
English language proficiency	TOEFL (Paper based)= 450 TOEFL (Institutional testing program)= 450 TOEFL (Computer based)= 133 TOEFL (Internet based)= 45 IELTS = 4.5 PSU-TEP or CU-TEP = 50% Or pass the English Proficiency Test that complies with the PSU	TOEFL (Paper based)= 450 TOEFL (Institutional testing program)= 450 TOEFL (Computer based)= 133 TOEFL (Internet based)= 45 IELTS = 4.5 PSU-TEP or CU-TEP = 50% Or pass the English Proficiency Test that complies with the PSU

	Graduate School rule within 1st year of study.	Graduate School rule within 1st year of study.
Special qualification	If the qualifications are not strictly met, admission is possible upon the approval by the program committee.	If the qualifications are not strictly met, admission is possible upon the approval by the program committee.

Document required:

1. Curriculum Vitae (CV)
2. Transcript
3. Research description/plan in English (about 2-4 pages)
4. A copy of an English proficiency certificate/results (If any, special consideration will be given).
5. Previous published research articles (If any).

Contact:

Dr. Sutinee Sinutok
Program chairperson
Tel: (+66)74-286847
Email: sutinee.s@psu.ac.th

Miss Sasipatch Punsawat
Academic officer
Tel: (+66)74-286806
Email: sasipatch.p@psu.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Food Science

Master Degree: Master of Science (Food Science)

Academic Institution: Department of Food Science and Technology, Faculty of Agro-Industry, Kasetsart University

Duration: Two (2) years (August 2019 – July 2021)

Course Synopsis & Methodology:

The Master's Degree structure consists of a curriculum with a minimum of 36 accumulated credits. The Master's Degree structure is classified into 2 plans

Plan A is a research oriented program which is characterized by two subcategories as follows:

– Plan A1 consists of a minimum of 36 credits for the thesis. The departments or the programs may require additional audited class participation or involvement in further academic activities which are subject to attainment of achievements as determined by The Graduate School.

– Plan A2 consists of a minimum of 12 credits for the thesis and a further minimum of 12 credits for course work.

Plan B is a course work oriented program. Students are required to conduct independent studies for a minimum of 3 credits but not in excess of 6 credits to substitute for a thesis.

Course Content/ Study Topic:

Plan A1: Total credits required: minimum 36 credits

1. Major courses (minimum 2 credits (audit))

01052597	Seminar	1,1

2. Thesis (minimum 36 credits)

01052599	Thesis	1-36

Choose a research area for their thesis research from the list below:

- Food Processing
- Food Chemistry
- Food Microbiology
- Dairy Science and Technology
- Meat Science and Technology
- Fruit and Vegetable Technology
- Fishery Technology
- Fats and Oils Technology
- Cereal Science and Technology
- Postharvest Technology
- Confectionery Technology
- Fabricated Food
- Food Protein and Enzyme

Plan A2: Total credits required: minimum 36 credits

1. Major courses (minimum 18 credits)

1.1 Seminar: 2 credits

010524597	Seminar	1,1

1.2 Major requirements: 5 credits

01052517	Advanced Food Science	3(3-0-6)
01052591	Research Methods in Food Science	2(1-3-4)

1.3 Major electives: minimum 11 credits

Students are required to choose at least 8 credits of 500 level courses in the field of Food Science from the list below

01052511	Cereal Chemistry	3(2-3-6)
01052512	Carbohydrate in Foods	3(2-3-6)
01052513	Lipid in Foods	2(2-0-4)
01052514	Protein in Food	3(2-3-6)
01052515	Enzyme in Foods	3(2-3-6)
01052516	Food Additives	3(2-3-6)
01052518	Chemistry of Food Flavor and Analysis	2(2-0-4)
01052521	Advanced Food Processing	2(2-0-4)
01052522	Colloidal Systems in Foods	3(3-0-6)
01052523	Food Analysis	2(2-0-4)
01052524	Biosensor Technology in Food Industry	2(2-0-4)
01052531	The Application of Physical Chemistry to Food Science	2(2-0-4)
01052541	Food Toxicology	2(2-0-4)
01052542	Hygienic Problems of Foods	2(2-0-4)
01052543	Nutrition in Food Science	2(2-0-4)
01052544	Nutrition in Food Processing	2(2-0-4)
01052545	Quality Management in Food Science	2(2-0-4)
01052546	Health Foods and Nutraceuticals	2(2-0-4)
01052592	Applied Statistic for Food Science Research	3(2-3-6)
01052596	Selected Topic in Food Science and Technology	1-3
01052598	Special Problems	1-3

In addition, students may choose at least 3 credits of 500 level courses in the field of Food Science or other related field. He/she must gain approval from advisory committee, Head of Department, and the Dean of the Graduate School.

1.4 Thesis: minimum 18 credits

01052599	Thesis	1-18

Document required:

1. Scanned files of bachelor's degree transcript clearly presenting a conferred degree name and a graduation date.
2. Scanned files of bachelor's degree certificate
3. A scanned file of the first page of student's passport
4. A scanned file of a one inch photograph of student, dressed in proper attire
5. A proof of English proficiency document (If any)
6. Other documents as required by your chosen department

Contacts:

Educational Services Section,
Department of Food Science and Technology,
Faculty of Agro-Industry, Kasetsart University, Thailand
E-mail: fgrakkc@ku.ac.th, kanokkorn.c@ku.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Postharvest Technology and Innovation

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

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

Duration: Two (2) academic years (August 2019 – May 2021)

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, driving economy and development of country, and enhancing the national and international competitiveness.

Course Synopsis and Methodology:

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

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

Year 1					
Semester 1			Semester 2		
1407891	Thesis	6	1407891	Thesis	12
			1407748	Seminar 1	0
Total (credits)		6	Total (credits)		12

Year 2					
Semester 1			Semester 2		
1407891	Thesis	12	1407891	Thesis	6
1407846	Seminar 2	0			
Total (credits)		12	Total (credits)		6

Plan A2 (Course works and research)

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 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			Semester 2		
1407847	Seminar 2	1	1407892	Thesis	3
1407892	Thesis	6			
Total (credits)		10	Total (credits)		3

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)
1407751	Internship	4(0-40-6)
1407752	Farm and Industry Visit	1(0-6-1)

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)
3. Thesis		
1407891	Thesis 36	(0-108-36)
1407892	Thesis 12	(0-36-12)

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:

1. Application affixed with photographs;
2. A copy of transcript from attended institutions
3. Evidence of English proficiency, TOEFL exam or others
4. Statement of purpose
5. Letters of recommendation from referee
6. A copy of passport

Contact:

Dr.Wirongrong Tongdeesoontorn
Packaging Technology,
School of Agro-Industry
Mae Fah Luang University
Tel: (+66)95-4491890
E-mail: wirongrong.ton@mfu.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Agricultural Science

Master Degree: Master of Science (Agricultural Science)

Academic Institution: Faculty of Agriculture, Natural Resources and Environment, Naresuan University

Duration: Two (2) years, academic years (June 2019 – March 2021)

Objectives:

1. To gain knowledge, competency, skill, and attitude for working in the field of agricultural science in the international level.
2. To be curious and have ability for doing research and developing agricultural science
3. To have various skills and readiness about technological transformation and development in higher level by having an awareness that will effect to environment and humanity.
4. To understand in social changing and condition both in Thailand and the world, to determine for developing the country following the role and responsibility throughout the conservation and promotion resources, religion, and national culture.
5. To have moral discipline, on time, honest, intelligence, professional realization and social responsibility.

Course Synopsis & Methodology:

Master of Science Program is the integrated course of study and research that focusing on Agricultural Sciences knowledge with Plant Science, Entomology, Diseases and Pests, Soil Resources Management, Agricultural Development, Animal Production in the tropical, Biotechnology, Post-Harvest, Seminar, and Thesis

Course Content and Study Topic:

Naresuan University proudly offers Master of Science Program in Agricultural Science that focuses on Plant Science, Entomology, Soil Resources and Agricultural Environment Management, Agricultural Development, Tropical Animal Production, Energy Crops and Industrial Crops, and Postharvest Technology .The program takes two years and consists of two plans;1(*Plan A Type A1* requires 36 credits of thesis plus 6 credits of basic required courses, and 2(*Plan A Type A2* requires 12 credits of thesis plus 6 credits of basic required courses, and 24 credits of elective prescribed courses .The students can choose either plan and focus on any field previously mentioned .The students will learn to investigate the specific problems leading to uncover information and also learn to write and present the results through thesis .The basic required courses consist of seminars and research methodology for improving the presentation skills and step-by-step research guidance .The students can choose the elective prescribed courses from various subjects according to academic background, thesis topics and interests .The students pursuing the program will improve knowledge and experiences through lectures, seminars, and researches useful for future careers.

Master of Science Program in Agricultural Science consists of minimum 36 credits that was divided into 2 plans;

No	Program	Criterion of Ministry of Education		Revised Curriculum 2016	
		Plan A Type A1	Plan A Type A2	Plan A Type A1	Plan A Type A2
1	Course work	-	12	-	24
2	1.1 minimum credit of prescribed course 1.2 minimum credit of elective course	-	- -	- -	- 24
3	Thesis	36	12	36	12
4	Independent Study	-	-	-	-
5	prescribed course without credit	-	-	7	7
Total minimum credits		**36**	**36**	**36**	**36**

Qualifications:

The student should be graduated in Bachelor degree or equivalent in Agriculture or related field with other qualifications of Naresuan University Graduate regulations

Plant Science, Entomology, Diseases and Pests, Soil Resources Management, Agricultural Development, Animal Production in the tropical, Biotechnology, Post-Harvest, Seminar, and Thesis

Document required:

1. Three (3) copies of the Application Form, each affixed with photographs.
2. Grade point average of 2.75 or higher
3. Original undergraduate transcripts
4. Two (2) letters of recommendation
5. Personal statement include CV
6. Medical Health Report
7. TOEFL (for student non – English speaking institutions)
   - Computer based: 213
   - Paper based: 550
   - iBT: 80 and IELTS: 6.5

Contact:

Assoc. Prof. Dr. Det Wattanachaiyingcharoen
Department of Agricultural Science
Faculty of Agriculture, Natural Resources and Environment
Naresuan University, Thailand
Tel: (+66)55-962822
E-mail: detw@nu.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Food Science and Technology

Master Degree: Master of Science in Food Science and Technology

Academic Institution: Department of Food Technology, Faculty of Science, Chulalongkorn University

Duration: Two (2) years (August 2019 – July 2021)

Objectives:

1. To produce graduate who has in-depth knowledge in Food Science and Technology to be able to do research and development in advanced level
2. To produce knowledge and technology related to Food Science and Technology for solving problems or support country's needs in area of food and agricultural industry.

Course Synopsis & Methodology:

Master of Food Science and Technology (International Program) 39 credits total.
Required subject 9 credits Elective subject 12 credits Thesis 18 credits

First year					
Semester 1			Semester 2		
2314665	Statistical Methods for Food Research	3	2314xxx	Electives	7
2314672	Instrumentation Techniques in Food Research	3			
2314698	Individual Study I	1	2314813	Thesis	5
2314xxx	Electives	5			
Total		**12**	**Total**		**12**

Second year					
Semester 1			Semester 2		
2314703	Seminar I	1	2314704	Seminar II	1
2314813	Thesis	11	2314813	Thesis	2
Total		**12**	**Total**		**3**

Course Content/ Study Topic:

Courses Offered

1. Required courses 9 Credits
   - 2314665 Statistical Methods for Food Research 3(3-0-9)
   - 2314672 Instrumentation Techniques in Food Research 3(2-3-7)
   - 2314698 Individual Study I 1(0-0-4) 2314703 Seminar I 1(1-0-3)
   - 2314704 Seminar II 1(1-0-3)
2. Electives courses not less than 12 Credits
   - 2314565 Thermal Processing of Foods 2(2-0-6)
   - 2314566 Food Chilling and Freezing 2(2-0-6)

2314568	Physical Properties of Foods	3(2-3-7)
2314572	Food Product Design	2(2-0-6)
2314573	Applied Food Microbiology	3(3-0-9)
2314574	Research and Development of Functional Foods	3(3-0-9)
2314575	Interactions of Food Components	2(2-0-6)
2314576	Drying Technologies in Food Processing	2(2-0-6)
2314667	Transport Phenomena in Food Processing	3(3-0-9)
2314668	Computational Techniques for Food Processing	3(2-3-7)
2314670	Food Phenolics	2(2-0-6)
2314671	Chemical and Physical Changes in Food	3(3-0-9)
2314673	Packaging of Food Products	3(3-0-9)
2314699	Individual Study II	1(0-0-4)

3. Thesis 18 Credits

2314813	Thesis 18 Credits

Qualifications:

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. Candidates whose first language is not English must have an appropriate level in an approved test of English. A TOELF score of 530 (paper-based) or 197 (computer based) or 71 (internet-based) or higher or an IELTS score of 6.0 or higher is required. For those who do not have TOEFL or IELTS score, CU Test of English Proficiency (CU-TEP) score equivalent to a TOEFL score 530 is required.

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 that the department graduate program administration committee will consider for a particular student.

3. The department graduate program administration committee considers that the applicants are qualified for this program.

Document Required:

1. Application form and a concept proposal (800 - 1,000 words)
2. TOELF or iELTS scores or CU-TEP (for those who do not have a TOEFL or iELTS score)
3. Three sealed recommendation letters
4. Academic transcript (in English) and certificate of graduation of Bachelor degree
5. Copy of Passport
6. Applicant's CV

Contacts:

Asst. Prof.Dr. Chaleeda Borompichaichartkul
Department of Food Technology,
Faculty of Science,
Chulalongkorn University, Thailand
Tel: (+66)2-2185518
E-mail: chaleeda.b@chula.ac.th, chaleedab@hotmail.com

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Biomedical Sciences (International Program)

Master Degree: Master of Science (Biomedical Science)

Academic Institution: Graduate School, Khon Kaen University

Duration: Two (2) academic years (August 2019 – July 2021)

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 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, and defined social skills in the areas of human interaction and leadership.

Course Synopsis & Methodology:

Categories of Courses	Number of Credit Hours	
	Plan A Type A1	Plan A Type A2
1. Core course	-	-
2. Major Required Courses	2 (Non - credits)	8
3. Major Elective Courses	-	8
4. Thesis	36	20
Total credits in the program	**36**	**36**

Course Content/ Study Topic:

Plan A Type A1

1. Thesis

753 898	Thesis	36 Credits

Plan A Type A2

1. Major Required Courses

356 712	Cells and Molecular Biology	3 Credits
753 702	Academic Writing	2 Credits
356 714	Medical Sciences Research Methodology	3 Credits

2. Major Elective Courses

XXX XXX	Elective courses	8 Credits

3. Thesis

753 899	Thesis	12 Credits

Document Required:

1. Two (2) copies of the Application Form sealed with 2 photos
2. Two (2) references in signed and sealed envelopes
3. Transcripts of studies in English
4. English language certificate (e.g. TOEFL, IELTS), if available
5. A brief proposal for an independent study, including a topic, statement of the problems, objectives and expectations

Contacts:

Jittima Kraisriwattana
International Relations Officer
Graduated school, Khon Kaen University, Thailand
Tel: (+66)43-202420 Ext. 42436
E-mail: jittkr@kku.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Public Health

Master Degree: Master of Public Health

Academic Institution: Faculty of Public Health, Naresuan University

Duration: Two (2) academic years (June 2019 – March 2021)

Objectives:

The Master of Public Health course aims at shaping the students to be capable as follows:

1. Be morality and ethics, being able to solve problems and ethically make a decision under both professional and law concepts.
2. Be practitioner who can identify and stop health problems by applying knowledge of public health and other related fields to evaluate health necessity, problem conditions, and other factors causing problems.
3. Be able to analyze and conduct a research correctly, as well as develop health systems according with social context.
4. Be able to efficiently provide empirical evidence to evaluate, analyze, and manage the project in order to eliminate public health problems including health problems, health services, occupational health, and environmental health.
5. Be able to professionally communicate and use information technologies according with socio-cultural context.
6. Have both leadership and good human relations to work as a team with interdisciplinary, party networks, and other related fields for the purpose of eliminating public health problems in all levels; social, local, national, and international level.
7. Be able to work as a team. Be a good leader and a good follower. Have good human relations. And, be able to cooperate with other sections properly.

Course Synopsis & Methodology:

Course Philosophy

The course aims at producing the students having a leadership as the administrative and the practitioner who is capable with integration knowledge, and experiences in both eliminating public health problems and promoting social health. The student is to be able to work as a team, having academic and professional morality to create productive research knowledge promoting individual and social health by focusing on the quality of life of people in the society.

First Year Program

1st Semester

551594	General public health	3(2-2-5)
551514	Biostatistics for Public Health Research	3(2-2-5)
551516	Environmental and Occupational Health	3(2-2-5)
551517	Behavioral Sciences and Health Education	3(2-2-5)
551518	Epidemiology	3(2-2-5)
551591	Research Methodology in Public Health	3(2-2-5)
	Total	**15(3) Credits**

2nd Semester

551515	Public Health Administration	3(2-2-5)
551521	Health promotion	3(2-2-5)
551522	Population and Reproductive Health	3(2-2-5)
551581	Thesis I, Type A2	3 Credits
551595	Seminar I	1(0-2-1)
	Total	**12(1) Credits**

Second Year Program

1st Semester

551XXX	Elective Course	3(2-2-5)
551596	Seminar II	1(0-2-1)
551582	Thesis II, Type A2	3 Credits
	Total	**6(1) Credits**

2nd Semester

551583	Thesis III, Type A2	6 Credits
	Total	**6 Credits**

Course Content/Study Topic:

1. Core Courses **18 Credits ;**

551514	Biostatistics for Public Health Research	3(2-2-5)
551515	Public Health Administration	3(2-2-5)
551516	Environmental and Occupational Health	3(2-2-5)
551517	Behavioral Sciences and Health Education	3(2-2-5)
551518	Epidemiology	3(2-2-5)
551593	Research Methodology in Public Health	3(2-2-5)

2. Requirement Courses **6 Credits**

551521	Health promotion	3(2-2-5)
551522	Population and Reproductive Health	3(2-2-5)

3. Elective Courses **3 Credits**

551535	Strategies and Methods in Health Promotion	3(2-2-5)
551536	Social Epidemiology	3(2-2-5)
551537	Policy and Health System Reform	3(2-2-5)
551539	Environmental Health Management in Community	3(2-2-5)
551540	Biostatistics for Public Health Research	3(2-2-5)
551541	Human resources management in health care	3(2-2-5)
551542	Health Promotion Services Management	3(2-2-5)
551543	Environmental toxicology in public health	3(2-2-5)
551544	Environmental and Health Impact Assessme	3(2-2-5)
551545	Population and Community Health	3(2-2-5)
551546	Health Innovation	3(2-2-5)
551547	Health promotion in community	3(2-2-5)
551548	Public Health Geographic Information Systems	3(2-2-5)
551549	Aging Health Care in Community	3(2-2-5)
551550	Epidemiology and Disease Control	3(2-2-5)
551551	Measurement in Epidemiology	3(2-2-5)
551552	Population and Reproductive Health research	3(2-2-5)

4. Thesis		**12 Credits**
551581	Thesis I, Type A2	3 Credits
551582	Thesis II, Type A2	3 Credits
551583	Thesis III, Type A2	6 Credits
5. Requirement Courses (Non-credit)		**5 Credits**
551594	General public health	3(2-2-5)
551595	Seminar I	1(0-2-1)
551596	Seminar II	1(0-2-1)

Qualification:

1. Graduated with a Bachelor's degree or equivalent in public health or health sciences and related field, such as nursing, Medicine, Dentistry, Veterinary Medicine, Pharmacy, Medical Technology, Applied Alliance or other related fields, from Institutions accredited by the Ministry of Education. Or the applicant is in the final year of the Bachelor's program and is expected to fulfill the requirements before the first semester starts. All applicants are to have all other qualifications required by the University.

2. For those who did graduate degree in another field. Must have experienced working in public health or related field for not less than three years.

3. For those who did not conform to the properties 1 and 2. To file a request to be considered for admission. Depending on the discretion of the Master of Public Health Program Committee.

Document Required:

1. Certifications
2. Copy of ID card and Passport
3. TOEFL or IELTS test report

Contact:

Asst. Prof. Dr. Nithra Kittherawutthiwong
Faculty of Public Health
Naresuan University, Thailand
Tel: (+66)55-967319
Email: nithrakm@gmail.com

Closing Date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Primary Health Care Management

Master Degree: Master of Primary Health Care Management

Academic Institution: Asean Institute For Health Development, Mahidol University

Duration: One (1) academic year (August 2019 - July 2020)

Objectives:

At the end of the course the learners should be able to:

1. Criticize ethical issues and strategies for dealing that ethical issues that have been raised and may arise in public health professions
2. Critique public health problems, health needs, factor related with that problems from scholarly literature and related information
3. Propose strategic options or primary health care innovation to solve or enhance primary health system via research that has been conducted in systematic process
4. Act as lifelong leaner with behave consistently seeking knowledge for developing intellectual independence
5. Interact professionally when work as a multidisciplinary team as both leader and member for solving and managing primary health care works in all levels
6. Use information technology effectively and appropriately with the social and cultural context.
7. Communicate effectively and appropriately with all level of practitioners
8. Analyze and interpret statistical data as they support evaluating, planning and managing primary health care system

Course Synopsis & Methodology:

The course comprises 36 credits

Course Content/ Study Topic:

1. Required course		15 Credits
ADPM602	Health Service and Primary Health Care Management	3 Credits
ADPM603	Epidemiology for Primary Health Care Management	3 Credits
ADPM622	Management of Environmental Health for Sustainable Development	3 Credits
ADPM629	Research Methodology for Primary Health Care	3 Credits
ADPM611	Health Promotion in Primary Health Care	2 Credits
ADPM697	Thesis Seminar	1 Credits
2. Elective course not less than 9 Credits		
ADPM612	Leadership and Health Team Development	2 Credits
ADPM613	Health Economics	2 Credits
ADPM614	Primary Health Care and Global Health	2 Credits
ADPM615	Professional Training Management in Primary Health Care	2 Credits
ADPM619	Field Study	2 Credits
ADPM636	Socio-economic and Cultural Perspective in Health	2 Credits
ADPM638	Health Communication for Primary Health Care Management	2 Credits

ADPM639	Health Systems Policies	2 Credits
ADPM656	Applied Statistics for Health Science Research	3 Credits
ADPM695	Sufficiency Economy Philosophy for Primary Health Care Management	2 Credits
ADPM696	Principle Concept and Practice of One Health	2 Credits
ADPM698	Thesis	12 Credits

Qualifications:

All applicants must fulfill the following:

1. Hold a M.D., D.D.S., D.V.M. or co-medical science degree from an accredited institutions;
2. Have extensive working experience at least 3 years;
3. Be currently engaged in primary health care activities or expected to be after course competition;
4. Good command of English (TOEFL score of 500 and above or IELTS score with a minimum of 5)

Document Required:

1. Two (2) copies of the Application Form sealed with 2 photos
2. Two (2) recommendation letters
3. Transcripts of studies in English
4. English language certificate (e.g. TOEFL, IELTS), if available

Contacts:

ASEAN Institute for Health Development
Mahidol University, Thailand
Tel: (+66)2-4419040 Ext. 37, 46
Facsimile (+66)2-4419044
Email: Aroonsri.mon@mahidol.edu, Orapin.lao@mahidol.edu

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Environmental Management

Master Degree: Master of Science (Environmental Management)

Academic Institution: Faculty of Environmental Management
Prince of Songkla University, Hatyai campus

Duration: Two (2) years (August 2019 – May 2021)

Objective:

To educate master students who are able to efficiently apply their knowledge of energy management and science to be the basement of the sustainable development morally for both national and international level.

Course Synopsis and Methodology:

Number of the total credits not less than 36 credits

Plan A; A1 (Research plan)	**36 credits**
-Thesis	36 credits

Plan A; A2 (Coursework and research plan)	**36 credits**
-Compulsory courses	9 credits
-Elective courses	9 credits
-Thesis	18 credits

Course Content/Study Topic:

Compulsory courses **9 credits**

820-500	(Environmental Assessment)	3(3-0-6)
820-501	(Sustainable Environmental Management)	3(3-0-6)
820–502	(Environmental Research Methodology)*	3(3-0-6)
820-505	(Seminar I)*	1(0-2-1)
820-506	(Seminar II)*	1(0-2-1)
825-500	(Ecological and Environmental Economics)*	3(3-0-6)
825-501	(Good Governance in Environmental Management)	3(3-0-6)
825-506	(Environmental Law)*	3(3-0-6)
830-500	(Science and Technology for Environmental Management)*	3(3-0-6)

* No credit (Result in grade of S=Pass, U= Fail)

Elective Courses **9 credits**

825-502	(Public Policy for Environmental Management)	3(3-0-6)
825-503	(Environmental Organization Administration)	3(3-0-6)
825-504	(International Environmental Policy)	3(3-0-6)
825-505	(Human Rights and the Environment)	3(3-0-6)
825-507	(Climate Change and Sustainable Development)	3(3-0-6)
826-500	(Education for Sustainable Development)	3(3-0-6)
826-501	(Community, Resources and Environmental Development)	3(3-0-6)
826-502	(Policies and Actions for Sustainable Development)	3(3-0-6)
830-501	(Soil Degradation and Management)	3(3-0-6)

830-502	(Environmental Quality Analysis Laboratory)	3(3-0-6)
830-503	(Environmental Risk Assessment)	3(3-0-6)
830-504	(Geographic Information System for Environmental Management)	3(3-0-6)
830-505	(Lake Basin Management)	3(3-0-6)
830-506	(Contamination of Heavy Metals in Soils)	3(3-0-6)
830-507	(Indoor Air Pollution)	3(3-0-6)
830-508	(Sustainable Urban Water Management)	3(3-0-6)
830-509	(Air Pollution and Control)	3(3-0-6)
830-510	(Water Pollution and Water Quality Management)	3(3-0-6)
830-511	(Solid and Hazardous Waste Management)	3(3-0-6)
830-512	(Waste Recovery and Recycling)	3(3-0-6)
830-513	(Wastewater Techonology : Treatment and Resource Recovery)	3(3-0-6)
830-514	(Advanced Environmental Technology Management)	3(3-0-6)
830-515	(Contaminated Site Remediation)	3(3-0-6)
830-516	(Environmental Decision Support System)	3(3-0-6)
830-517	(Pollution Prevention and Industrial Waste Management)	3(3-0-6)
830-518	(Energy Conservation and Management)	3(3-0-6)
830-519	(Environmental Biotechnology Innovation)	3(3-0-6)
830-520	(Biotechnology for Energy and Environment)	3(3-0-6)
830-521	(Biofuel Technology)	3(3-0-6)
830-522	(Advanced Industrial Wastewater Management)	3(3-0-6)
830-523	(Polymers and The Environment)	3(3-0-6)
830-524	(Fuels, Combustion and Emission Control)	3(3-0-6)
830-525	(Biogas and Natural Gas Utilization Technologies)	3(3-0-6)
835-500	(Toxicology and Industrial Hygiene)	3(3-0-6)
835-501	(Drinking Water and Food Sanitation Technology)	3(3-0-6)
835-502	(Public Health and Environmental Laws)	3(3-0-6)
835-503	(Principles and Management of Environmental Health)	3(3-0-6)
837-501	(Earth System Environment and Sustainability)	3(3-0-6)
Thesis		
820-800	(Thesis for plan A2)	18(0-54-0)
820-801	(Thesis for plan A1)	36(0-108-0)

Qualification:

Applicants' qualification	Master of Science Program in Environmental Management	
	Plan A1	**Plan A2**
Education level	All Bachelor degree or related fields	All Bachelor degree or related fields
GPA	3.50 or above	2.50 or above
Work experience	3 years or above	1 years or above
Environmental research experience	-	-
English language proficiency	TOEFL (Paper based)= 450 TOEFL (Institutional testing program)= 450	TOEFL (Paper based)= 450 TOEFL (Institutional testing program)= 450

	TOEFL (Computer based)= 133 TOEFL (Internet based)= 45 IELTS = 4.5 PSU-TEP or CU-TEP = 50% Or pass the English Proficiency Test that complies with the PSU Graduate School rule within 1st year of study.	TOEFL (Computer based)= 133 TOEFL (Internet based)= 45 IELTS = 4.5 PSU-TEP or CU-TEP = 50% Or pass the English Proficiency Test that complies with the PSU Graduate School rule within 1st year of study.
Special qualification	If the qualifications are not strictly met, admission is possible upon the approval by the program committee.	If the qualifications are not strictly met, admission is possible upon the approval by the program committee.

Document required:

1. Curriculum Vitae (CV)
2. Transcript
3. Research description/plan in English (about 2-4 pages)
4. A copy of an English proficiency certificate/results (If any, special consideration will be given).
5. Previous published research articles (If any).

Contact:

Dr. Worradorn Phairuang
Program chairperson
Tel: (+66)74-286836
Email: worradorn.p@psu.ac.th

Miss Sasipatch Punsawat
Academic officer
Tel: (+66)74-286806
Email: sasipatch.p@psu.ac.th

Closing date for Nominations: March 31, 2019
Late or incomplete applications/documents will not be considered.

Course Title
Master of Science Program in Sustainable Energy Management

Master Degree: Master of Science (Sustainable Energy Management)

Academic Institution: Faculty of Environmental Management
Prince of Songkla University, Hatyai campus

Duration: Two (2) years (August 2019 – May 2021)

Objective:
To educate master students who are able to efficiently apply their knowledge of energy management and science to be the basement of the sustainable development morally for both national and international level.

Course Synopsis and Methodology:
Number of the total credits not less than 36 credits
Plan A; A1 (Research plan) 36 credits
-Thesis 36 credits

Plan A; A2 (Coursework and research plan) 36 credits
- Compulsory courses 9 credits
- Elective courses 9 credits
- Thesis 18 credits

Course Content/Study Topic:
Compulsory courses 9 credits

820–601	(Environmental Research Methodology)*	3(3-0-6)
831-804	(Seminar in Sustainable Energy Management I)**	1(0-2-1)
831-805	(Seminar in Sustainable Energy Management II)**	1(0-2-1)
835-605	(Basics of Energy Systems)	3(3-0-6)
835-606	(Sustainable Energy Systems)	3(3-0-6)

* No credit for Master of Science program/Plan A1
Credit for Master of Science program/Plan A2
** No credit (Result in grade of S=Pass, U= Fail)

Elective Courses 9 credits
(Choose at least 1 course from elective course type 2 and at least 1 course from elective course type 5)

Elective course Type 1: Energy Science and Resources

830-601	(Environmental Geology)	3(3-0-6)
830-602	(Climate Change and Ecosystem)	3(3-0-6
831-811	(Renewable Energy Science)	3(3-0-6)
831-812	(Potential and Conversion of Energy)	3(3-0-6)
831-813	(Energy Crop)	3(3-0-6)

Elective course Type 2: Management of Technology and Energy Business

831-821	(Technology Management)	3(3-0-6)
831-822	(Marketing and Financial Analysis in Energy Business)	3(3-0-6)
831-823	(Energy Business and Cost Accounting)	3(3-0-6)

831-824	(Energy and Economics Policy)	3(3-0-6)
835-601	(Decision Making for Energy Conservation and Management)	3(3-0-6)

Elective course Type 3: Physical Chemical and Biological Energy Technology

333-651	(Smart Materials and Applications)	3(3-0-6)
831-516	(Biotechnology Innovation)	3(3-0-6)
831-831	(Polymer Membrane: Basic and Applications)	3(3-0-6)
831-832	(Membrane Technology for Gas Separation)	3(3-0-6)
835-517	(Biotechnology for Energy and Environment)	3(3-0-6)
835-519	(Bio-fuel Technology)	3(3-0-6)

Elective course Type 4: Environment and Energy

825-604	(Law for Environmental Management)	3(3-0-6)
831-841	(Design for Energy and Environment)	3(3-0-6)
831-843	(Safety and Occupational Health in Energy Activity)	3(3-0-6)
831-844	(Environmental Impact Assessment for Power Plant)	3(3-0-6)
835-515	(Energy Conservation and Management)	3(3-0-6)

Elective course Type 5: Energy and Society

831-851	(Energy in Community)	3(3-0-6)
831-852	(Public Participation in Energy Business)	3(3-0-6)
831-853	(Awareness in Energy Saving)	3(3-0-6)
831-854	(Corporate Social Responsibility from Energy Sector)	3(3-0-6)
831-855	(Personnel Management in Energy Business)	3(3-0-6)

Specialization Elective course

831-890	(Special Topics in Energy and Environment)	3(3-0-6)

Thesis

831-900	(Thesis for plan A2)	18(0-54-0)
831-901	(Thesis for plan A1)	36(0-108-0)

Qualification:

Applicants' qualification	Master of Science Program in Sustainable Energy Management	
	Plan A1	**Plan A2**
Education level	Bachelor degree in Science, Engineering, Social Sciences, Humanities, or other related fields.	Bachelor degree in Science, Engineering, Social Sciences, Humanities, or other related fields.
GPA	2.75 or above	2.50 or above
Work experience	2 years or above	2 years or above (If the GPA is less than 2.50)
Environmental research experience	1 year or above	1 year or above (If the GPA is less than 2.50)
English language proficiency	TOEFL (Paper based)= 450 TOEFL (Institutional testing program)= 450 TOEFL (Computer based)= 133 TOEFL (Internet based)= 45 IELTS = 4.5 PSU-TEP or CU-TEP = 50%	TOEFL (Paper based)= 450 TOEFL (Institutional testing program)= 450 TOEFL (Computer based)= 133 TOEFL (Internet based)= 45 IELTS = 4.5 PSU-TEP or CU-TEP = 50%

	Or pass the English Proficiency Test that complies with the PSU Graduate School rule within 1st year of study.	Or pass the English Proficiency Test that complies with the PSU Graduate School rule within 1st year of study.
Special qualification	If the qualifications are not strictly met, admission is possible upon the approval by the program committee.	If the qualifications are not strictly met, admission is possible upon the approval by the program committee.

Document required:

1. Curriculum Vitae (CV)
2. Transcript
3. Research description/plan in English (about 2-4 pages)
4. A copy of an English proficiency certificate/results (If any, special consideration will be given).
5. Previous published research articles (If any).

Contact:

Dr.Khamphe Phoungthong
Program chairperson
Tel: (+66)74-286850
Email: khamphe.p@psu.ac.th

Miss Sasipatch Punsawat
Academic officer
Tel: (+66)74-286806
Email: sasipatch.p@psu.ac.th

Closing date for Nominations: March 31, 2019
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