

M.Sc. in Environmental Management and Technology (International Program)
(Regular and Special Program) (MT) (MTS)
Faculty of Environment and Resource Studies
Mahidol University

Table of Contents

1.	About This Handbook	1
2.	Program Philosophy and Objectives	1
3.	Admission Requirements	2
4.	Registration Fee for the Academic Year 2021	4
5.	Academic System	5
6.	Study Plan	5
7.	Courses	6
8.	Measurement and Evaluation of Students Achievement	11
9.	Graduation Requirements	11
10.	Quality Assurance	12
11.	Consultation and Supervision	13

Appendix

A:	Teaching Timetable semester 1, academic year 2021	17
B:	Program Committee	18
C:	Schedule for course registration and fee payment of academic year 2021	19
D:	Thesis Process	21
	Contact	25

1. About this Handbook

This handbook provides details of the requirements of the Program courses offered and how they will be taught for prospective students. It also serves as a guide to the general running of the Program and of the responsibilities of the student, lecturer, and Program committee.

However, candidates should be aware that nothing in this manual overrules the Academic Regulations of Graduate Studies, Mahidol University (a copy of which can be viewed at the Faculty of Graduate Studies).

2. Program Philosophy and Objectives

The Environmental Management and Technology Program (International Program) (Regular and Special Program) will produce environmentalists with academic and research excellence, environmental management and technology leadership, morals, and ethics who apply their knowledge to develop useful environmental policies and lead the green industry.

Program Objectives:

To produce graduates who have the characteristics, knowledge and skill as follows:

- 1) They must be leaders with integrity who are devoted to public service and are able to perform their duties professionally;
- 2) They must have knowledge and professional skills in the field of environmental management and technology, system approach, and green industry at both the national and global levels;
- 3) They must have the analytical skills, creative thinking, and cognitive ability to evaluate and contribute to developing the knowledge of environmental management and environmental technology and science-related green industry;
- 4) They must have skills in working on the foundation of knowledge from different fields in order to manage conflicts and continuously improve. They must have a passion for knowledge and believe in lifelong learning;
- 5) They must have skills to apply technology and information technology for greater performance in research as well as presentation.

3. Admission Requirements

Qualifications:

Plan A (2)

- 1) Hold a Bachelor's degree in any field of study;
- 2) Have a cumulative GPA not less than 2.50;
- 3) Have an English Proficiency Examination score as the requirement of Faculty of Graduate Studies;
- 4) Applicants with other qualifications may be considered by the Program Director, committee, and the Dean of Faculty of Graduate Studies.

Plan B

- 1) Hold a Bachelor's degree in any field of study;
- 2) Have a cumulative GPA not less than 2.50;
- 3) Have an English Proficiency Examination score as the requirement of Faculty of Graduate Studies;
- 4) Have at least three years working experience in a field related to Environment and Resource Studies;
- 5) Applicants with other qualifications may be considered by the Program Director, committee, and the Dean of Faculty of Graduate Studies.

Exemptions from the above conditions may be granted by the Program Committee under exceptional circumstances.

Documents Required:

- 1) Set of Offline Application Forms (download from <http://grad.mahidol.ac.th/en/prospective-students/how-to-apply.php>)
 - **Form A** : Application Form
 - **Form B** : Background and Proposed Field of Study
 - **Form C** : Recommendation Forms (directly submitted by at least 2 referees)
 - **Form D** : Certificate of Health
- 2) Degree Certificate (with officially certified English translation)
- 3) Academic Transcript (with officially certified English translation)
- 4) Recent Photos (passport size)
- 5) Passport
- 6) English certificate (to check valid score, visit <http://grad.mahidol.ac.th/en/prospective-students/how-to-apply.php>)

Important:

- Accept only the TOEFL-ITP test arranged by Faculty of Graduate Studies, Mahidol University. Any TOEFL - ITP taken from other institutes both domestic and overseas are **INVALID**.

- English proficiency score must be taken **within 2 years** up to the date of submitting application to Mahidol.
- 7) Curriculum Vitae
- 8) Statement of Purposes and Career Goals (if any)
- 9) Current Financial Statement / Scholarship Letter (if any)
- 10) Brief Research Proposal

Language:

English is used in instruction and thesis writing.

Venue of Study:

The program will be conducted at the Faculty of Environment and Resource Studies, Mahidol University
999 Phuttamonthon 4 Road, Salaya, Nakhon Pathom, 73170, THAILAND

Duration of Study:

The time for completing the degree is at least 3 semesters and no more than 2 academic years.

Registration:

- Students must register as full-time students.
 - Students must register for between 9 and 15 credits per regular semester, or follow the recommendation of advisors
-

4. Registration Fee for the Academic Year 2021

Descriptions	Total	Year 1		Year 2	
	Amount	Semester 1	Semester 2	Semester 1	Semester 2
1. Education Services Fee @ 10,000 Baht/Year	20,000	5,700	4,300	5,700	4,300
2. Student Activities Fee @ 250 Baht/Semester	1,000	250	250	250	250
3. Graduate Studies Fee @ 750 Baht/Semester	3,000	750	750	750	750
4. Internet Service @ 500 Baht/Semester	2,000	500	500	500	500
5. Graduate Tuition 24 Cr. @ 6750 Baht/Cr	162,000	81,000	81,000	0	0
6. GRID 512 Research Ethics 1 Cr. @1,800 Baht/Cr	1,800	0	1,800	0	0
7. Thesis Registration (Baht)	18,000	0	0	18,000	0
8. Research Supplies Fee (Baht)	150,000	0	0	150,000	0
9. Field Study Fee (Baht)	50,000	0	50,000	0	0
10. Tuition Fee for ENMT 630 Fundamental of Environmental and Natural Resource Management 1 Cr. @ 6750 Baht/Cr *register with condition	6,750	6,750	0	0	0
Total (Baht) (Thai students)	407,800	88,200	138,600	175,200	5,800
+ Tuition Fee for ENMT 630*	414,550*	94,950*			
11. Health Insurance @ 3,500 Baht/Year	7,000	3,500	0	3,500	0
Total (Baht) (Foreign students)	414,800	91,700	138,600	178,700	5,800
+ Tuition Fee for ENMT 630*	421,550*	98,450*			

*MU-CIRB fee may be included. (It depends on student's interest.)

**Soft skills fee may be included. (It depends on student's interest.)

***The program provides these following **scholarships** for students.

- 1) To support partial finance of research supplies fee by reducing down to 75,000 Baht
- 2) To support partial finance for conference/publication.

5. Academic System

The academic year is based on 2 semesters:

First semester	9 th August 2021 – 3 th December 2021
Second semester	10 th January 2022 – 6 th May 2022

6. Study Plan

The lecturer and the student should work together in the preparation of a provisional two-year study plan and timetable, including the proposed fieldwork in both Thailand and other countries in Asia Pacific.

Curriculum Structure	Plan A, A2	Plan B
1) Preparation course	none credit (Audit/ AU)	none credit (Audit/ AU)
2) Require courses	18 credits	18 credits
3) Elective courses (not less than)	6 credits	12 credits
4) Thesis	12 credits	-
5) Thematic paper	-	6 credits
Total (not less than)	36 credits	36 credits

Plan A, A2			Plan B		
Summer course			Summer course		
ENMT 630	Fundamental of Environmental and Natural Resource Management	1 (1-0-2)	ENMT 630	Fundamental of Environmental and Natural Resource Management	1 (1-0-2)
Total = - credit (AU)			Total = - credit (AU)		
1st semester/ Year 1			1st semester/ Year 1		
ENMT 631	Industrial Ecology and System Approach	3 (3-0-6)	ENMT 631	Industrial Ecology and System Approach	3 (3-0-6)
ENMT 632	Environmental Risk Management	3 (3-0-6)	ENMT 632	Environmental Risk Management	3 (3-0-6)
ENMT 633	Applied Economics for Natural Resource Sustainability	3 (3-0-6)	ENMT 633	Applied Economics for Natural Resource Sustainability	3 (3-0-6)
ENMT 634	Holistic Resources Inventory and Environmental Survey	3 (3-0-6)	ENMT 634	Holistic Resources Inventory and Environmental Survey	3 (3-0-6)
Total=12 credits			Total=12 credits		
2nd semester/ Year 1			2nd semester/ Year 1		
ENMT 635	Environmental Management and Technology in Practicum	3 (0-6-3)	ENMT 635	Environmental Management and Technology in Practicum	3 (0-6-3)
ENMT 636	Integrated Research for Environmental Management and Technology	3 (3-0-6)	ENMT 636	Integrated Research for Environmental Management and Technology	3 (3-0-6)
ENMT 6XX	Elective_1	3 (3-0-6)	ENMT 6XX	Elective_1	3 (3-0-6)
ENMT 6XX	Elective_2	3 (3-0-6)	ENMT 6XX	Elective_2	3 (3-0-6)
Total=12 credits			Total=12 credits		
1st semester/ Year 2			1st semester/ Year 2		
ENMT 698	Thesis	9 (0-36-0)	ENMT 6XX	Elective_3	3 (3-0-6)

	ENMT 6XX	Elective_4	3 (3-0-6)		
	ENMT 697	Thematic Paper	3 (0-12-0)		
Total=9 credits			Total=9 credits		
2 nd semester/ Year 2			2 nd semester/ Year 2		
ENMT 698	Thesis	3 (0-12-0)	ENMT 697	Thematic Paper	3 (0-12-0)
Total=3 credits			Total=3 credits		
TOTAL=36 CREDITS			TOTAL=36 CREDITS		

Remarks: 1) Students, who purpose to do research engaged in people, are required to take GRID 521 Research Ethics Course in Semester 2.

2) Students must take a minimum of 36 credits to complete the Program.

7. Courses

Credits (theory-practice-self-study)

Preparation Course

ENMT 630 Fundamental of Environmental and Natural Resource Management 1 (1-0-2)

Fundamental of natural resources and environmental management, critical issues or problems, limitation of the natural resources exploitation, environmental management edges, ASEAN and international development impact on regional natural resources and environment, measures for sustainable development of natural resources and environment

Required Course

ENMT 631 Industry Ecology and System Approach 3 (3-0-6)

Concept and principle of industrial ecology, natural system dynamic, components and functions of system, goal of system; boundary and characteristics of a system, system dynamics, system analysis, relationships of society to industry and development, material and energy flows in industrial and ecological systems, material flow analysis, life cycle assessment, supply chain management, clean technology, waste minimization, eco-efficiency; eco-design; carbon label and carbon footprint; eco-industry; green in industry

ENMT 632 Environmental Risk Management 3 (3-0-6)

Environmental risk assessment concepts and processes; risks affecting environment, community, stakeholder analysis; organizations; economic performance and professional reputation; risk assessment techniques; framework and a process for managing risk; risk control and treatment; risk management standard and clauses; related standards, guidelines for internal or external audit programs; principles for effective management and corporate governance; risk management practices

ENMT 633 Applied Economics for Natural Resource Sustainability 3 (3-0-6)

Concept of economics for natural resources; population and environment, agriculture and food; scarcity and abundance of resources; energy sector; renewable resources using in the fisheries and forestry sector; policy and industrial ecology; trade and development impacts to water resource; institutions for sustainable development and sufficiency economy; sustainable development goals; application of the principles of sustainable economic management to environmental and resource issues

ENMT 634 Holistic Resources Inventory and Environmental Survey 3 (3-0-6)

Learning process and integration of multidisciplinary and interdisciplinary; integration of theory and resources inventory and environmental survey; geography, geology and geomorphology; pedology; hydro-meteorology; forest and wildlife; socio-economic and population; sustainability of resource use issues; integrated approaches and survey methods; practical exercise

ENMT 635 Environmental Management and Technology in Practicum 3 (0-6-3)

Learning process and integration of concepts, principle and theory approach to environmental management and technology; field investigation and survey; natural resources and environmental quality analysis; investigation of the growth and development or change in the short-term and long-term of human and ecology; Instrument approach; procedure; systematic survey; analysis of natural resources and environment quality; field study

ENMT 636 Integrated Research for Environmental Management and Technology 3 (3-0-6)

Multi-disciplinary of research methodology for environmental management and technology; types of research, observational research, experimental research, qualitative research; research design; problem analysis; research question and hypothesis; data collection, data management and analysis; research proposal development; literature review; research ethics; ethics of environmentalist; the art of communication and presentation

Elective courses**ENMT 637 Environmental Management Systems 3 (3-0-6)**

Principle of environmental management systems (EMS); environmental aspect assessment; environmental legislation; environmental management systems standard and clauses; related standards; audits-definition and principles; audit planning; pre-audit process; audit review; conducting the main audit; audit report and follow-up; accreditation; certification and auditor competence; eco management and audit scheme regulation requirements

ENMT 638 Energy Management System Standard 3 (3-0-6)

Energy use and consumption; Tackle climate change; Conserve resources and integrated energy management; Development of an energy management system; Efficient use of energy policy development; Energy

performance; Energy efficiency; Energy management systems standard and clause, related standards; Guidance for small and medium enterprises/ SMEs implementing energy management and efficiency measures; Management system model

ENMT 639 Occupational and Health Management System 3 (3-0-6)

International occupational and health/ OH&S management system and development; importance and benefits; organizational performance enhancing challenges and improvement of stakeholder satisfaction; occupational and health management systems standard and clauses; related standards; an apply occupational and health management system for organization

ENMT 640 Food Safety Management System 3 (3-0-6)

Food chain and aspects; the safety of the global food supply chain; food safety and its stated food safety policy; planning, implementation, operating; maintenance and updating a food safety management system; evaluating and assessment of customer requirements and satisfaction; effective communicating food safety issues to their suppliers; customers and relevant interested parties in the food chain; food safety management systems standard and clauses; related standards

ENMT 641 Sustainable Forest Management Standard System 3 (3-0-6)

Concept of sustainable forest management standard system; the core values of the forest management or forest management system/ FM; systems and performance approach to FM certification; benefits of forest certification; indigenous peoples' rights; social and environmental impacts; high conservation value forests; stakeholder identifying and analysis; forest management systems standard and clauses; related standards, the role of auditors; auditing work; relating findings to standard elements; selecting sites for the field audit; compiling the audit documentation and the FM certification report; raising corrective action requests/ CARs; controlled wood in forest management; audit planning; follow up on CARs

ENMT 642 Social Responsibility Standardization and Sustainable Development Goals 3 (3-0-6)

Concepts, terms and definitions related to social responsibility; background, trends and characteristics of social responsibility; principles and practice; the core subjects and issues of social responsibility; integrating, implementing and promoting socially responsible; identifying and engaging with stakeholders; internal and external communication; performance and other information related to social responsibility; sustainable development goals; social responsibility contribute to the sustainable development goals

ENMT 643 Sustainable Events Standard 3 (3-0-6)

Concept and benefit of sustainable events; green meetings guideline and sustainable events; managing and communicating sustainable events; implementing sustainable events; Climate neutral and climate friendly events; generating of significant waste impact to local communities; socio-economic and environmental

impact from sustainable events; sustainable events standard, clause and approach; sustainable events checklists and report; best practice of sustainable events

ENMT 644 Environmental Communication for Social Change **3 (3-0-6)**

Concepts and elements in environmental communication; relationships between communication and environment; environmental communication psychology; communication for environmental and social change; sustainability communication; diffusion and adoption of environmental innovations; communication for low carbon society; climate change communication; integrated marketing communication and green industry; communication for environmental and natural resources conflict resolution

ENMT 645 Solid and Hazardous Waste Management **3 (3-0-6)**

Characteristics of solid and hazardous waste; principles of integrated waste management; waste minimization; reuse/recycle, collection, storage, transfer and transport, separation, incineration, composting; disposal, landfill site selection; design, operation, monitoring; landfill closure; treatment processes for hazardous waste; regulation and techniques associated with the management of solid and hazardous waste; special waste management; construction and demolition waste management; disaster waste management

ENMT 646 Technology for Water Quality Management **3 (3-0-6)**

Fundamentals of organic chemistry in the environment; water quality and problems; water quality standard; laws and regulations for water quality management; water treatment system and design; wastewater treatment; technologies for water quality management; advance of wastewater treatment technologies; innovation treatment technologies

ENMT 647 Soil Resource and Land Use for Sustainable Industry **3 (3-0-6)**

Problems of soil resources; soil forming factors and processes; the human impact on soils; theories of land use; industrial location models; structure and location; Industry change; the effects of rapid industrialization; industry and the environment; ecological and environmental impact of industrial land use; the concept of sustainable industrial land use; modeling of industrial land use planning; analysis and evaluation process of sustainable industrial land use

ENMT 648 Biodiversity Conservation and Management **3 (3-0-6)**

Concepts and theories of biodiversity; biodiversity value threats to biodiversity; habitat loss; exotic species; disease; population ecology overexploitation, small population; biodiversity management, protected area management and establishing, biodiversity conservation outside protected areas; biodiversity conventions, laws and regulations

ENMT 649 Ecosystem Restoration**3 (3-0-6)**

Concepts and theories of ecosystem restoration; impacts of human on ecosystems; habitat destruction, degradation, and pollution in ecosystems; measurement and monitoring on ecosystem changes; rehabilitation in aquatic; forest and wetland ecosystems; wildlife captive breeding techniques and reintroduction; techniques in reforestation and corridor construction; project measurement and monitoring; synthesis on case study of ecosystem restoration

ENMT 650 Sustainability and Ecosystem Health**3 (3-0-6)**

Principle conceptual of ecosystem health and sustainable human society based on the fluctuation of ecosystem health; flexibility of sustainable development by monitoring ecosystem health under the complex social adaptability; social adaptation to the vulnerable and changes in ecosystem health; indicators of human society sustainability reflected by the good health ecosystem

ENMT 651 Climate Change and its Impact**3 (3-0-6)**

Climate change; natural forcing and human activities; industrial evolution, climate rapidly changed, natural phenomena; El Niño-La Niña; volcanic eruption, convention and protocol; impact on climate change to human being, natural resources and environment, mitigation options, adaptation and vulnerability

ENMT 652 Disaster Management**3 (3-0-6)**

The evolving approaches in disaster management; global disaster trends; natural disaster trends, technological disaster trends, factors influencing disaster trends; paradigm shifts in understanding and managing disasters; disaster management models; ethics; values and accountability; hazard assessment; vulnerability and capacity assessment; early warning system; disaster risk information system; public awareness and disaster risk communication; disaster management and development

Thesis**ENMT 698 Thesis****12 (0-48-0)**

Research topic identification for environmental management and technology of research objectives; literature review; research design; validity and reliability of the research; data collection, data analysis and synthesis; research writing; research presenting and publishing in standard journal or academic publication or presenting on the academic conference; ethics of academic presentation

Thematic Paper**ENMT 697 Thematic Paper****6 (0-24-0)**

Academic identifying concept; data retrieval; literature review; research question setting; objective and scope of research identification; conceptual framework; research design and procedure; quantitative and qualitative

data collection; data compilation; research analysis; research and article writing; report presentation; ethics of academic presenting

Remarks: Course Code Explanation

- 1) Two first letters: EN, represent the abbreviated name of the faculty (FERS/MU)
- 2) The third and fourth letters: MT, represent the abbreviated name of the program (Environmental Management and Technology).
- 3) The first numbers (6xx) represent the postgraduate program level.
- 4) The 3 numbers in the brackets show the number of hours /week (theory – practice – self -study):

Theory 1 credit	= 1 hour of lecture + 2 hours of self-study
Practice 1 credit	= 2 hours of practice work + 1 hour of self - study
Self-study	= number of hours of independent study per week

8. Measurement and Evaluation of Student Achievement

Evaluation and achievement will be justified according to Faculty and University code of conduct by grading system as A, B+, B, C+, C, D+, D and F.

9. Graduation Requirements

Student evaluation is in accordance with the rules and regulations of the Faculty of Graduate Studies, Mahidol University.

Plan A (2)

- Take 24 credits of coursework and 12 credits of thesis, with a GPA not less than 3.00.
- Pass an English Proficiency Examination with following score.
 - IELTS score at least 5
 - TOFEL iBT score at least 64
 - MU GRAD Plus score at least 7
 - MU ELT score at least 84
- Complete the thesis research and pass the oral examination required for graduation according to regulations of the Faculty of Graduate Studies, Mahidol University.
- Have part of the thesis' findings published or at least have been accepted to be published in an academic journal or have been accepted to be presented at a conference which has proceedings with peer review.

Plan B

- Take 30 credits of coursework and 6 credits of thematic paper, with a GPA not less than 3.00.
- Pass an English Proficiency Examination with following score.
 - IELTS score at least 5
 - TOFEL iBT score at least 64
 - MU GRAD Plus score at least 7
 - MU ELT score at least 84
- Pass the Comprehensive Examination according to regulations of the Faculty of Graduate Studies, Mahidol University.
- Complete the thematic paper and pass the oral examination required for graduation according to regulations of the Faculty of Graduate Studies, Mahidol University.

10. Quality Assurance**Teaching-Learning Process**

- The teaching and learning process of the Program emphasizes active-learning, interactive two-way education and communication with local, regional and international lecturers, researchers and experts.
- Learning activities are in-class, home-based and field-based in order to gain theoretical knowledge, and analytical thinking as well as practical skills.
- In-class learning and in-class based tasks involve lectures, hands-on exercises, analysis of case studies / histories / examples, individual and group analytical assignments, multi-disciplinary / inter-disciplinary group work, group discussion presentation, and round-table discussion.
- Home-based self-learning is based on provided lecture notes, guiding materials, case studies, assignments, and reference readings.
- Site-visits include close observation, briefings, on-the-job training, individual and group assignments, group discussion and presentation.
- Field-based learning emphasizes orchestrated fieldwork partnerships with experts/researchers on area-based or problem-based ecological systems analysis. Report(s) on learning processes, methodologies, outputs and lessons-learned will be prepared, presented and discussed by the students.
- Students have to attend and/or present their work at in-house technical sessions, local and international seminars.
 - a) **Thesis:** The processes of preparing and conducting a thesis are in accordance with the rules and regulations of Mahidol University.
 - b) **Evaluation of the Students Performance:** The evaluation of the student performance is in accordance with the rules and regulations of the Faculty of Graduate Studies, Mahidol University.
 - c) **Curriculum Evaluation and Revision**
 - The evaluation of the teaching and learning process is performed every semester.
 - The evaluation of the curriculum is performed every 5 years, and revised as needed.

11. Consultation and Supervision

Lecturers who are available for student supervision will normally be comprised of the full-time academic staff of MU. They have relevant research and teaching expertise and are expected to hold a university appointment for the duration of the course.

Regulations and Guidelines

The parties are to familiarize themselves with the Program Regulations and the Manual.

Students and Lecturer Expectations

The student and the lecturer need to be clear on the processes of lecturing, group tutorials, projects and thesis. On the basis of this understanding, the lecturer and student should establish guidelines and expectations pertaining to:

- Strategies for and frequency of contact between lecturers and students via the techniques described;
- Monitoring, evaluation and reporting of progress within the two-year timetable;
- Provision of necessary material resources to complete courses;
- Orientation, learning support, prescribed course work, training courses, and conference support as required;
- The nature of any directed reading program required; and
- Strategies for contact with and introductions to other researchers in related areas, including external agencies, industry, or other institutional links.

Regular Contact

Frequent and adequate meetings should be held between the lecturer and the student on the program. The lecturer and student are jointly responsible for initiating such discussions.

Record Keeping

Ensuring that any major decisions about the student's progress is made in consultation (verbal or electronic) between the lecturer and the student, or any major variations to agreed expectations and guidelines are confirmed in writing and a copy given to the student.

Monitoring Progress

The lecturer should encourage and ensure that the student is actively engaged in the course in a manner likely to produce significant results by the time of the course examinations. Any unsatisfactory progress on

the part of the student should be detailed, and acted upon. The student should be informed verbally and in writing of this, and methods to improve the student's performance will be identified and implemented enabling the student to continue with their studies.

Participation in Faculty Activities

The student should actively participate in the intellectual activity of the Faculty of Environment and Resource Studies through activities such as attendance at seminars and conferences, and the lecturer should encourage and ensure that the students do so.

Providing Feedback

Written work is required from the student on a pre-arranged and agreed upon schedule. The teacher's feedback should include the reviewing drafts of submissions, commenting critically to the student, reviewing drafts of thesis, providing written and/or verbal comments within a mutually agreed upon period (not exceeding one month from time of submission), and providing written and/or verbal comments on completed reports before final submission.

Reporting of Changes

Students are expected to report to the lecturer any significant change in other commitments likely to affect the progress of the course, or any proposed period of suspension of candidature or attendance at another institution.

Overseas Students Return to their Country

Overseas students who wish to return to their country at any time during the course of their stay in Thailand must get prior permission from the Program Committee and from their funding organization (e.g. TICA).

Absence

The lecturer should advise the student about any plans for his/her extended absence from the University (e.g. field trip, meeting, seminar, long service leave, etc.) during the relevant course, and about the proposed arrangements for supervision during this absence, where possible. At least six months' notice should be given, and preferably upon enrolment.

Other Contacts

The lecturer should facilitate contact between the student and other researchers in related areas, including external agencies, industry, or other institutional links.

Health and Safety

The lecturer should advise the student on health and safety working practices relevant to the field of research (including the occupational strains hazard). Students are expected to adopt safe working practices relevant to the field of research at all times.

Ethics

The lecturer should advise the student on the ethical practices appropriate to the discipline (including human research and/or animal experimentation ethics requirements) and the requirements regarding the retention of primary data. Students are expected to adhere to the ethical practices appropriate to the discipline at all times.

English Language Skills

The lecturer is responsible for identifying students who need assistance in:

- Communicating in English, both orally or in writing, using the vocabulary and conventions of the discipline, in the first and any subsequent semester of enrolment;
- Advising the student in writing of the need for this assistance; and,
- Referring the student for appropriate academic skills assistance.

Career Opportunities

The lecturer should advise the student on post-graduate research or other career options.

Appendix

A: Teaching Timetable
Master of Science Program in Environmental Management and Technology (MT)
Faculty of Environment and Resource Studies, Mahidol University
Semester 1, Academic Year 2021

Day/Time	9.00 am. - 12.00 pm.	1.00 pm. - 4.00 pm.
Monday	-	-
Tuesday	ENMT 633 Applied Economics for Natural Resource Sustainability (Lect. Dr. Ratchaphong Klinsrisuk)	ENMT 632 Environmental Risk Management (Asst. Prof. Dr. Piyakarn Teartisup)
Wednesday	-	-
Thursday	ENMT 634 Holistic Resources Inventory and Environmental Survey (Asst. Prof. Dr. Jongdee To-im)	-
Friday	ENMT 631 Industry Ecology and System Approach (Assoc. Prof. Dr. Kitikorn Charmondusit)	-

Remarks: Course Coordinator

- | | |
|---|--------------------------------------|
| 1) Assoc.Prof.Dr. Kitikorn Charmondusit | Email: kitikorn.cha@mahidol.ac.th |
| 2) Assist.Prof.Dr. Jongdee To-im | Email: jongdee.toi@mahidol.ac.th |
| 3) Assist.Prof.Dr. Piyakarn Teartisup | Email: tpiyakarn@gmail.com |
| 4) Lect.Dr. Ratchaphong Klisrisuk | Email: ratchaphong.kli@mahidol.ac.th |

Office: Faculty of Environment and Resource Studies, Mahidol University

B: Program Committee

Program Chair:

Asst.Prof.Dr. Kamalaporn Kanongdate 02-441-5000 ext.1316 kamalaporn.kan@mahidol.edu

Committee & Secretary:

Lect.Dr. Narin Boontanon 02-441-5000 ext. 2211 narin.boo@mahidol.ac.th

Program Committee:

Asst.Prof.Dr. Piyakarn Teartisup 02-441-5000 ext. 1321 tpiyakarn@gmail.com

Asst.Prof.Dr. Paramita Punwong 02-441-5000 ext. 1313 paramita.pun@mahidol.ac.th

Assistant Secretary:

Ms. Wassamon Chansomvong 02-441-5000 ext. 1113 wassamon.cha@mahidol.edu

C: Schedule for course registration and fee payment of academic year 2021

Registration Process Activities		Timetable		
		1 st Semester	2 nd Semester	Summer
1	Semester start-end dates	Aug 9 - Dec 3, 2021	Jan 10 – May 6, 2022	May 23 - Jul 15, 2022
2	Students meet the advisors to ask for course registration approval	from Jul 5, 2021	from Dec 6, 2021	from May 2, 2022
3	Registration period e-registration at http://www.grad.mahidol.ac.th			
	3.1 Regular Registration	Jul 5 - Jul 16, 2021	Dec 6 - Dec 17, 2021	May 2 - May 6, 2022
	3.2 Regular Registration closed	Jul 17 - Aug 8, 2021	Dec 18, 2021 - Jan 9, 2022	May 7 - May 22, 2022
	3.3 Fee payment deadline (before 11.00 pm) (If payment is overdue, students will be charged 2,000 baht)	Aug 6, 2021	Jan 7, 2022	May 20, 2022
	3.4 Late registration	Aug 9 - Aug 20, 2021	Jan 10 - Jan 21, 2022	May 23 - May 27, 2022
	3.5 Payment for late registration	Aug 7 - Sep 10, 2021	Jan 8 - Feb 11, 2022	May 21 - Jun 10, 2022
	*3.6 Late payment of 2,000 baht	Aug 9 – Oct 1, 2021	Jan 10 – Mar 4, 2022	May 23 – Jun 17, 2022
	3.7 Add / Drop course Registration (Refund Graduate Tuition Fee Drop Course)	Aug 9 - Aug 20, 2021	Jan 10 - Jan 21, 2022	May 23 - May 27, 2022
	3.8 Submit Refund Graduate Tuition Form (AS – 3 – 05) (For dropped course during Add/Drop period)	Aug 9 - Sep 8, 2021	Jan 10 - Feb 9, 2022	May 23 - Jun 17, 2022
	3.9 Add / Drop course Payment	Aug 9 - Sep 10, 2021	Jan 10 - Feb 11, 2022	May 23 - Jun 17, 2022
	3.10 Course withdrawal (no refund)	Aug 21 - Nov 26, 2021 or until the week before the final exam	Jan 22 - Apr 29, 2022 or until the week before the final exam	May 28 - Jul 8, 2022 or until the week before the final exam
4	Advisor or Program director give approval for each student	within 7 days after receiving student registration request		
5	Registration staff will send invoice and course list via e-mail to each student. The students can download and print out the invoice to make each payment at the bank counter or electronic payment			
	<u>Registration period</u> 5.1 Regular Registration 5.2 Late Registration 5.3 Add/Drop Course Registration	12 days after receiving student registration request		
6	Announcement of student enrollment's list and payment status at http://www.grad.mahidol.ac.th (e-registration)	from Jul 19, 2021	from Dec 20, 2021	from May 9, 2022
7	Students who do not register and/or do not pay the fee must contact the Academic Services Section, Salaya to confirm the student status	Sep 13 – Sep 24, 2021	Feb 14 – Feb 25, 2022	-
8	Student status terminated due to non-registration and/or non-payment of fees	Oct 1, 2021	Mar 4, 2022	-
9	**e-registration closed	Nov 29 –Dec 5, 2021	Apr 25 - May 1, 2022	Jun 27 - Jul 3, 2022
10	Student give comments on the Online Course Evaluation Form	Nov 8 - Dec 20, 2021	Apr 11 - May 23, 2022	Jul 25 - Aug 15, 2022

11	Program directors submit evaluation of student's achievement in each course to FGS	within Dec 24, 2021	within May 27, 2021	within Jul 22, 2022
12	Announcement of Grade Report at http://www.grad.mahidol.ac.th (e-registration)	from Dec 29, 2021	from Jun 1, 2022	from Jul 27, 2022

Note

**Student Download Invoice late payment fines of 2,000 baht from the system e-registration and pay at the bank specified in Invoice.*

***Registration may be allowed in person after online registration is closed by filling in the form AS-3-06*

D: Thesis process



