

**Course Title****Master of Engineering Program in Environmental Engineering****Master Degree:** Master of Engineering Program in Environmental Engineering**Academic Institution:** Faculty of Engineering, Naresuan University, Pitsanulok**Duration:** 2 years**Objective: .**

1. To produce graduates with the knowledge, skills and ability in Environmental Engineering to control and remedy the pollution.
2. To produce graduates who have an ability to do a research and able to apply the knowledge to solve problems on environmental and related issues.
3. To produce graduates with ethical, moral and responsibility to social.

**Course Synopsis and Methodology:**

No.	Description	Number of Credits in the new curriculum 2017, Plan A, Type A2
1	Course work - a minimum of	24
	1.1 Core courses - a minimum of	9
	1.2 Elective courses	15
2	Thesis	12
3	Required Non - credit	4
Total number of credits - a minimum of		36

**Course Content/Study Topic:**

The Master in Environmental Engineering provides and integration and application of a broad range of knowledge and analytical skills applicable to problem – based localized researches in the locality of both lower northern region and country. This program will prepare graduates in able to plan, design, control, operate, manage and solve municipal and industrial pollution prevention problems. Students are subjected learning in a research atmosphere that provides a mix of theory and practical problem solving approaches. This program attracts national experts to serve on the teaching staff and is flexible in handling research interests in any current environmental issues. The Master in Environmental Engineering prepares mid – career professionals for middle – level positions in organizations to improve the environment.

Three of our outstanding research centers devoted to the field include:

- Centre of Excellence on Environmental Research and Innovation
- Excellence Center of Sustainability of Health, Environmental and Industry
- Centre of Excellence for Innovation and Technology for Water Treatment

Research Focus:

- Environmental Toxic Substance Removal: Ce Tox
- Air Pollution
- Energy for the Environment
- Climate Change, Natural Resources, and Disaster Research Unit

Core Courses:

Option 1.2

Requirements	Credit
307501 Advanced Chemistry for Environmental Engineering	3
307502 Physico-Chemical-Biological Processes and Reaction Kinetics	3
307503 GIS and Remote Sensing in Disaster Management	3
Total	9

Elective Courses

Requirements	Credit
307511 Air Pollution and Control	3
307512 Design of Air Pollution and Control System for Industry	3
307513 Atmospheric Chemistry	3
307514 Advanced Noise Control	3
307515 Global Warming and Impact Mitigation	3
307579 Special Topics in Environmental Engineering	3
307521 Advanced Wastewater Treatment Process	3
307522 Advanced Wafer supply Technology	3
307523 Sewerage and Water Distribution Systems	3
307524 Water and Wastewater Treatment Plant Operation and Management	3
307531 Integrated Municipal Solid Waste Engineering and Management	3
307532 Advanced Hazardous Waste Management	3
307533 Industrial Waste Control	3

307534 Site Remediation	3
307535 Solid and Hazardous Waste Landfill Engineering	3
307536 Environmental and Health Risk Assessment	3
307541 Community Environmental Technology	3
307542 Pollution Management	3
307543 Environmental System Modeling	3
307544 Environmental Health and Sanitation	3
307545 Pollution Prevention	3
307546 Environment and Energy	3
307547 Biotechnology for Energy and Environment	3
307548 Industrial Safety and Environment Management	3
307549 Environmental Law and Organization Management	3
Total	≥9

<u>Non – credit Courses</u>	Opiton 1.2
Requirements	Credit
307581 Research Methodology in Science and Technology	3
307582 Seminar	3

<u>Thesis</u>	Credit
Requirements	
307591 Thesis 1, Option 1.2	1 credits
307592 Thesis 2, Option 1.2	2 credits
307593 Thesis 3, Option 1.2	3 credits
307594 Thesis 4, Option 1.2	6 credits

**Qualification:**

Graduated with a Bachelor's degree or equivalent in engineering, science, public health science, and other related areas, from accredited institutions, 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 must have all other qualifications required by the university.

**Document required:-**

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

**Closing date for Nominations:**      May 31, 2018

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