

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

1. To produce graduates with the knowledge, skills and ability in Civil Engineering (Structure Engineering, Soil Engineering, Water Resource Engineering or Transportation and Construction Engineering)
2. To produce graduates who have an ability to be a leader in organization and be an expert in the field of Civil Engineering both in region level and national level.
3. To produce graduates who have an ability to do a research and able to apply the knowledge to solve problems on civil engineering and related issues.
4. To produce graduates with ethical, moral and responsibility to social.

Couse Synopsis and Methodology:

No.	Description	Number of Credits in the new curriculum 2018, Plan A, Type A2
1	Course work - a minimum of	24
	1.1 Core courses	3
	1.2 Elective courses	21
2	Thesis	12
3	Required Non - credit	5
	Total number of credits - a minimum of	36

Couse Content/Study Topic:

Master of Engineering program in Civil Engineering our focus is research-intensive, designed for the pursuit of advanced interdisciplinary studies focusing on application in construction business. The main mission is to support rapidly progressing social and economic development leading to more complex demands in engineering skills, such as research and

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

- Climate Change, Natural Resources and Disaster Research Unit
- Excellent Center for Road and Railway Innovation
- Water Resources Research Center
- Research Unit for Road Safety

Research Focus:

- Water Resource Engineering
- Structural Engineering
- Construction Engineering
- Transportation Engineering
- Geotechnical Engineering

Core Courses:

Requirements

304501 Applied Mathematics for Engineering

Total

Option 1.2

Credit

3

3

Elective Courses

Requirements

Structural Engineering

304511 Advanced Structural Analysis

304512 Advanced Mechanics of Materials

304513 Advanced Concrete Technology

304514 Structural Dynamics

Construction Engineering

304521 Construction Planning

304522 Cost and Economics in Design and Construction

304523 Probability Statistics and Decision for Civil Engineering

304524 Construction Monitoring, Inspection and Control Process

Transportation Engineering

304531 Urban Transportation Planning

304532 Traffic Design and Operations

304533 Advanced Highway Planning and Design

304534 Economic Analysis for Transportation Engineering

Option 1.2

Credit

3

3

3

3

3

3

3

3

3

3

3

3

<u>Water Resource Engineering</u>		
304541	Advanced Fluid Mechanics	3
304542	Water Resources Development and Management	3
304543	Advanced Hydrology	3
304544	Design of Hydraulic Structure	3
<u>Geotechnical Engineering</u>		
307551	Advanced Soil Mechanics	3
307552	Advanced Foundation Engineering	3
307553	Soil Dynamics	3
307554	Earth Structures	3
	Total	≥21
<u>Non – credit Courses</u>		Option 1.2
Requirements		5 Credit
304503	Research Methodology in Science and Technology	3
307581	Seminar I	3
307582	Seminar II	3
<u>Thesis</u>		
Requirements		12 Credit
304591	Thesis 1, Option 1.2	3 credits
304592	Thesis 2, Option 1.2	3 credits
304593	Thesis 3, Option 1.2	6 credits

Qualification:

Graduated with a Bachelor's degree or equivalent in civil engineering, and other related areas, from accredited institutions. 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.