



CIVIL ENGINEERING

International Program (Bachelor of Engineering)



General Description

The Civil Engineering Department of Faculty of Engineering, Naresuan university provides 8 curriculums. Two bachelor programs are civil engineering and environmental engineering, Four master programs in civil engineering, environmental engineering, construction management engineering, and disaster management. Two doctor of philosophy programs in civil and environmental engineering.

The Bachelor of Engineering (Civil Engineering) is designed to provide the students with broad educational and professional perception as well as to enhance their effectiveness as practitioners and researchers in the field of modern civil engineering, which includes, mega infrastructure project planning, advanced analysis, design, and construction building, bridges, foundations, dam and irrigation system. It contains course from general education course (related basic sciences), specialized and specific engineering course (related to basic knowledge and innovative knowledge in civil engineering). Besides, the students are required to fulfill selected courses in English, humanities and social sciences so as to broaden their outlooks in their future careers. Laboratories in various divisions and research units of the Department are set up to supplement classroom works and to facilitate the study of advanced topics. The Department offers a 4-year undergraduate program leading to the Bachelor of Engineering degree.

Career Opportunities

After successfully completing your studies, you will be able to work as civil engineer as infrastructure and transportation engineer, structural and material engineer, soil/foundation/geology engineering, survey engineer, and construction management engineer. Civil engineer graduates are high sought after by public sector agencies, state enterprise, and private sector, and all of our graduates either find employment in infrastructure industry or go on to higher level of study at the end of their degree. Careers include research and development, management positions, and technical roles within both large multinationals and smaller business.





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Curriculum Structure

Requirements	Credits
1. General Education Courses	30
2. Specialized Courses:	113
2.1 Core Courses	54
2.2 Major Elective Courses	56
2.3 Undergraduate Thesis	3
2.4 Non-Credit Courses	7
3. Free Elective Courses	6
Total	149

General Education Courses

Students has to take General Education Courses of 30 credits.

Core Courses

: choose 54 credits from the following courses

Calculus I, Calculus II, Calculus III, Applied Mathematics for Civil Engineering, Principles of Chemistry, Physics I, Physics II, Basic Tool and Machine Workshops, Engineering Statistics, Engineering Drawing, Engineering Mechanics I, Mechanics of Materials II, Surveying, Practical Training in Surveying, Fluid Mechanics, Fluid Mechanics Laboratory, Computer Programming, Engineering Materials.

Major Elective Courses: Choose 56 credits from the following courses Technopreneur, Essential Mathematics for Civil Engineering, Civil Engineering Materials and Testing Laboratory, Geology for Engineers, Structural Analysis I, Structural Analysis II, Reinforced Concrete Design, Concrete Technology, Highway Engineering, Highway Materials Laboratory, Principle of Hydrology, Hydraulic Engineering, Soil Mechanics, Soil Mechanics Laboratory, Foundation Engineering, Ethic for Engineers, Design of Timber and Steel Structures, Construction Engineering and Management, Transportation Engineering.

Non-Credit Courses

Introduction to Civil Engineering Profession.

Students have to take 6 credits or not less than 270 hours from Training in Civil Engineering.

Free Elective Courses

Students can take Electives of 6 credits from any faculty in Naresuan University.