

## **Undergraduate Program for Civil Engineering International Students**

### **Educational Objectives**

The objective of civil engineering major is to foster high-level applicative talents who have comprehensive quality in the domain of humanity and science. The graduates will have solid foundation for specialty knowledge and have creative ability to fulfill the requirement of engineering practice in the future. After the training of fundamental principles and knowledge in the discipline of civil engineering as a qualified engineering, the graduates will be cultivated to be competent for the professional position such as construction, structural design, engineering investigation, management, engineering consulting, education, research and development in the engineering fields of civil architecture, highway, bridge, tunnel as well as railway.

### **Educational Requirement**

The graduates should obtain the knowledge, ability and quality as following after four-year college studying:

1. To master basic knowledge and theory of psychology, literature, art and have excellent quality in humanities and social sciences;
2. To grasp steady knowledge in nature science fields such as mathematics, college physics, college chemistry and computer science;
3. To understand material properties, mechanics principles and structural design theory in civil engineering and to be qualified for project management, engineering economy and budget;
4. To be able to solve engineering problems using professional skill and to reasonably choose structure systems for basic analysis and design;
5. To write academic articles by proficiently using office software and to be competent of orally communicating with people who have related profession background;
6. To possess the ability of technologic innovation and scientifically dialectical thinking to carry out research and development.

### **Major Disciplines & Major Courses**

Major Disciplines: Civil Engineering, Mechanics

Major Courses: Civil Engineering Graphic, Structural Mechanics, Civil Engineering Measurement, Soil Mechanics, Foundation Engineering, Civil Engineering Materials, Design of Reinforced Concrete, Design of Steel Structures, Civil Engineering Construction.

**Characteristic Courses**

Design of Reinforced Concrete, Design of Steel Structures, Structural Mechanics.

**Length of School and Degree**

Duration: Four Years

Degrees Conferred: Bachelor Degree of Engineering

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