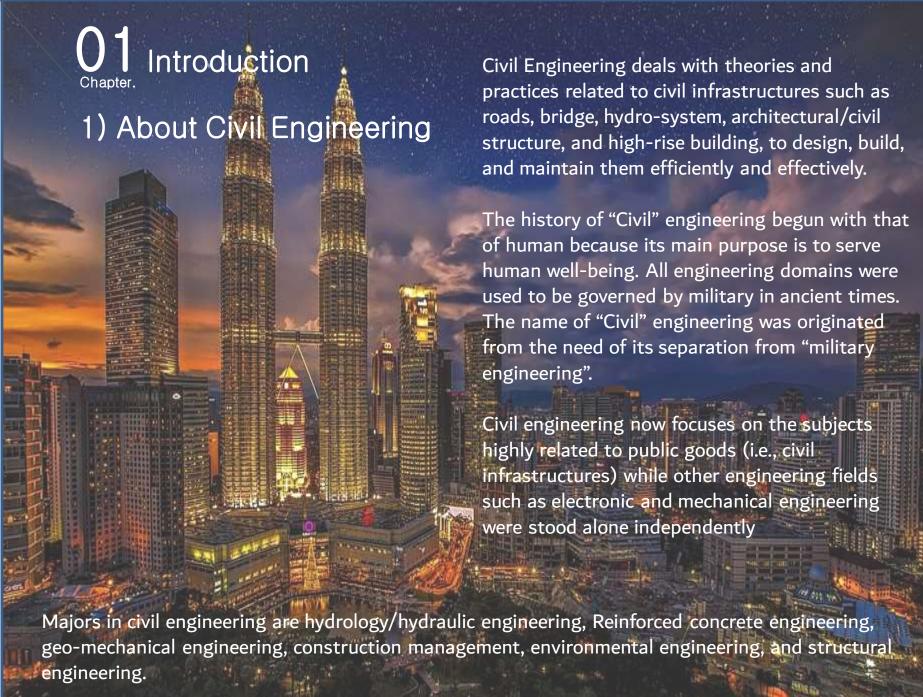


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### O1 Introduction

### 2) Educational Goals



3) After Graduation



Fostering civil engineer with expertise and practical abilities in all fields of civil engineering through systematic and professional educational program

- 1 Systematization of fundamental theories and practices
- 2 Strengthening professional and humanistic education
- 3 Fostering engineering expert who can resolve issues in our society and public policy
- Governmental organizations
- Research institutes
- National enterprises
- Domestic and international construction companies
- Consulting companies

# O1 Introduction

### 4) History



1985	Our department was established	2004	Attracted about 10 Million USD from MCT for COMTEC
1993	Graduate-master program opened	2009	Construction of Advanced Construction
1996	Graduate-Ph.D. program opened		Materials Testing Center (COMTEC) was completed
2001	Renamed to Dept. of Civil Engineering	2010	Civil Eng. Intensive program was certified
2002	Ranked 10 out of 77 civil departments all over the nation	2015	Renamed to Civil Eng. Major in School of Architectural and Civil Eng.

### O1 Introduction

### Descriptions on Each Major

- Water Resources Eng. involves protecting and managing water resources in a sustainable and environmentally appropriate manner for the good of society
- Structural Eng. includes the design and optimization of the built environment be it bridges, buildings, transportation facilities or habitats
- Geotechnical Eng. involves working with and understanding the engineering properties of soil, rock, and groundwater
- Civil Construction Management involves the application of construction methods and knowledge of construction equipment, as well as the implementation of the principles of management, scheduling and planning
- Water Treatment Eng. involves designing systems and solving pressing global problems in all areas related to the environment and public health; Bioprocessing research is particularly based on biological application to deal with diverse environmental issues.



### 02 Professors

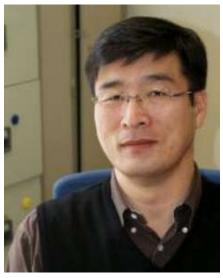


Prof. Kwon, Oh Kyun

Lab: Geotechnical Engineering Lab.

Research and Publication Info.:

- 1. Displacement characteristics of battered pile under horizontal loads
- 2. Bearing behavior characteristics of pressure penetrating steel pipe pile under compression load
- 3. Case study on slope failure with carbonaceous peculiar soil
- 4. Uplift capacity of suction pile by an experiment



Prof. Chung, Youn In

Lab: Civil Construction Management Lab.

Research and Publication Info.:

- 1. Study on excavation reinforcing techniques for large cross sectional tunnel and
- 2. Study on effective consolidation design in soft soils
- 3. Physical and consolidation characteristics of soft clay in Nakdong River Lower Basin

## 02 Professors



#### Prof. Chung, Ho Jin

Lab: Environmental Sanitation Lab.

Research and Publication Info.:

- 1. Investing the impact of slow mixing on flocculation
- 2. Effective operation and diagnosis of water treatment facility
- 3. Study on floc characteristics of different solutions
- 4. Study on the development of electro coagulation oxidation system



#### Prof. Chang, Chun Ho

Lab: Composite Structure System Lab.

Research and Publication Info.:

- 1. Seismic performance evaluation of RC column using TRC
- 2. Seismic performance evaluation of steel frame structures with base isolation
- 3. Seismic repair and strengthening using Hybrid FRP

## 02 Professors



Prof. Chey, Min Ho

Lab: Smart Structure Lab.

Research and Publication Info.:

- 1. Response spectrum analysis for TMD type story isolation system design
- 2. Urban structures with various horizontal irregularities using equivalent static analysis
- 3. Passive and semi-active mid-story isolation system



#### Prof. Yang, Jun Mo

Lab: Reinforced Concrete Engineering Lab Research and Publication Info.:

- 1. Development of 3D Printed Concrete Technology
- 2. Development of fiber-reinforced cementitious concrete technologies
- 3. Development of prestressed concrete structure with super high strength PC-strand applied
- 4. Development of Standard Experimental Procedures for Concrete Materials and Structures



#### Prof. Woo, Dong Kook

Lab: Hydrosystem Lab.

Research and Publication Info.:

- 1. Analysis of the impact of climate change on vegetation and water resources
- 2. Land Surface model Surface flux calculation and water balance evaluation using
- 3. Development of soil moisture measurement device using nondestructive sensor and machine learning



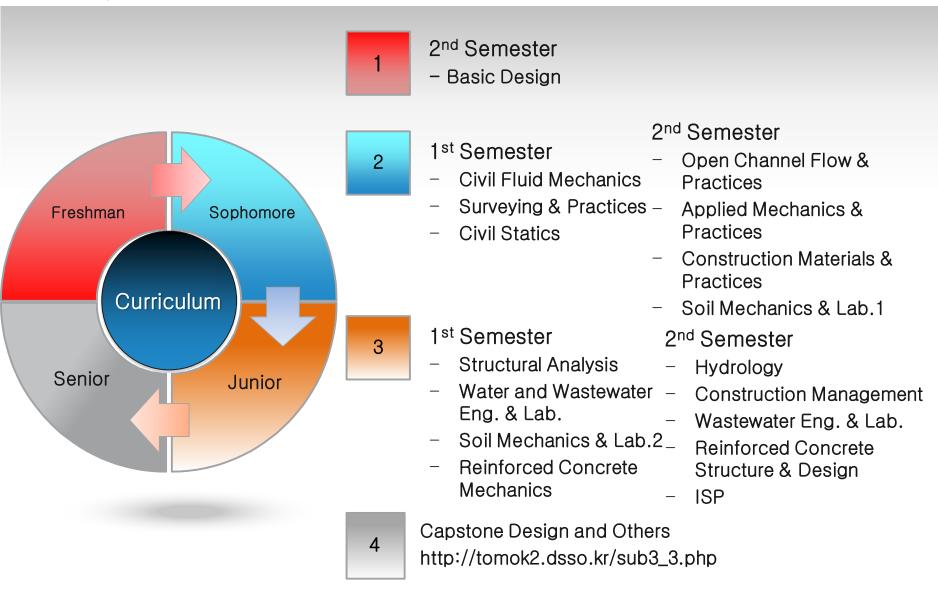
#### Prof. Eom, Heon Seop

Lab: Environmental Bioprocess Lab.

Research and Publication Info.:

- 1. Nitrogen in wastewater treatment processing and its impact on eutrophication
- 2. Energy and nutrients-recovery wastewater treatment systems
- 3. Microorganism-based ecotoxicity assessment

## O3 Curriculum



### 04 Contacts

#### • Department Office

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  - Phone 053-580-5819
  - Cell 010-8797-1935
  - aledma1026@naver.com
- Practice Assistant: Inbeom Park Contact for practices, labs, and equipment repair
  - **Cell 010-3443-6411**
  - dlsqja0820@naver.com

#### Professors

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- Prof. Eom, Heon Seop, Room 2110 Eng. Bldg #2, 82-53-580-5706, heom@kmu.ac.kr