

# Blue Book 2019

Department of Civil Engineering  
Keimyung University

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A nighttime photograph of a city skyline, dominated by the Petronas Twin Towers in Kuala Lumpur, Malaysia. The towers are illuminated with warm lights, and the surrounding city buildings are also lit up, creating a vibrant urban scene against a dark sky with some clouds.

# 01 Introduction

Chapter.

## 1) About Civil Engineering

Civil Engineering deals with theories and practices related to civil infrastructures such as roads, bridge, hydro-system, architectural/civil structure, and high-rise building, to design, build, and maintain them efficiently and effectively.

The history of “Civil” engineering begun with that of human because its main purpose is to serve human well-being. All engineering domains were used to be governed by military in ancient times. The name of “Civil” engineering was originated from the need of its separation from “military engineering”.

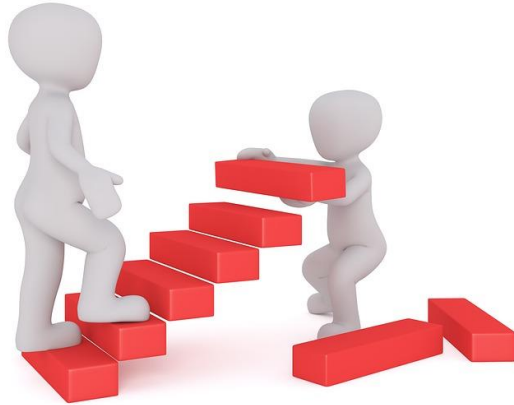
Civil engineering now focuses on the subjects highly related to public goods (i.e., civil infrastructures) while other engineering fields such as electronic and mechanical engineering were stood alone independently

Majors in civil engineering are hydrology/hydraulic engineering, Reinforced concrete engineering, geo-mechanical engineering, construction management, environmental engineering, and structural engineering.

# 01 Introduction

Chapter.

## 2) Educational Goals



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

## 3) After Graduation



- Governmental organizations
- Research institutes
- National enterprises
- Domestic and international construction companies
- Consulting companies



# 01 Introduction

Chapter.

## 4) History



1985 Our department was established

1993 Graduate-master program opened

1996 Graduate-Ph.D. program opened

2001 Renamed to Dept. of Civil Engineering

2002 Ranked 10 out of 77 civil departments all over the nation

2004 Attracted about 10 Million USD from MCT for COMTEC

2009 Construction of Advanced Construction Materials Testing Center (COMTEC) was completed

2010 Civil Eng. Intensive program was certified

2015 Renamed to Civil Eng. Major in School of Architectural and Civil Eng.

# 01 Introduction

Chapter.

## 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



# 01 Introduction

Chapter.

## Credit

입학년도		2009-2009	2010-2013	2014~2018	2019년~	비 고
공통교양[표1 참조] * 반드시 이수하여야 함		30 [동일과목 중복 없이 공통교양과목에서 12학점 이상, 교양(전공기초교양, 계열교양, 균형교양, 일반교양)과목 중에서 18학점 이상 이수]		15	12	▶ 2014학년도~ 2016학년도 입학생의 균형교양과목 이수기준 - 6개 영역 중 5개영역 이상에서 각 3학점(총15학점) 이상 이수 ▶ 2017학년도 이후 입학생의 균형교양과목 이수기준 - 6개영역 중 5개영역(철학과역사 영역 포함)에서 각 3학점 (총 15학점)이상 이수 ▶ Keimyung Adams College, 간호대학은 별도 기준 적용
교양 (전공기초교양, 계열교양, 균형교양, 일반교양)				15(균형교양)	15(균형교양)	
전공기초		-	-	0 ~ 12	0 ~ 12	▶ 학과(전공)에서 지정한 전공기초과목은 반드시 이수 ▶ 전공기초과목 이수학점은 전공(69학점) 이수학점에는 포함 되지 않으나, 졸업학점에는 포함됨
전공학점	제 1전공 이수학점 (전공필수포함)	45	54	54	54	▶ 의학과: 160학점 ▶ 약학과, 제약학과: 165학점 ▶ 건축학전공: 120학점 ▶ Keimyung Adams College, 간호대학은 별도 기준 적용
	타전공	0~24	0~15	0~15	0~15	타학과(전공)에서 개설하는 전공필수, 전공선택과목
	전공이수학점	69	69	69	69	전공이수학점 [표2 참조]
총 이수학점		130	130	130	130	▶ 의학과: 160 ▶ 약학과, 제약학과: 165



# 02 Professors

Chapter.

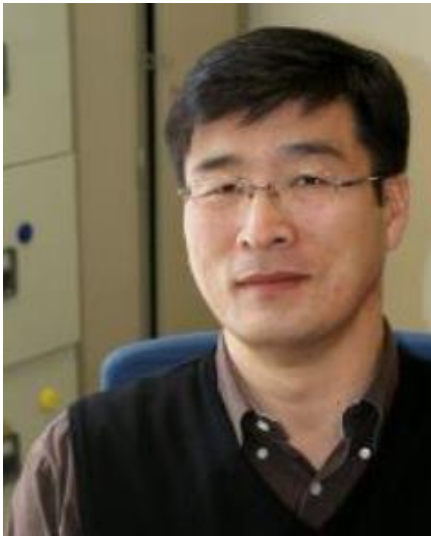


Prof. Kwon, Oh Kyun

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

Chapter.



Prof. Chung, Ho Jin

Lab: Environmental Sanitation Lab.

Research and Publication Info.:

1. Investigating 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, Chunho

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

Chapter.



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 concrete products utilizing low carbon materials
2. Development of fiber-reinforced cementitious concrete technologies
3. Development of prestressed concrete structure with super high strength PC-strand applied

# 02 Professors

Chapter.



Prof. Jung, Donghwi

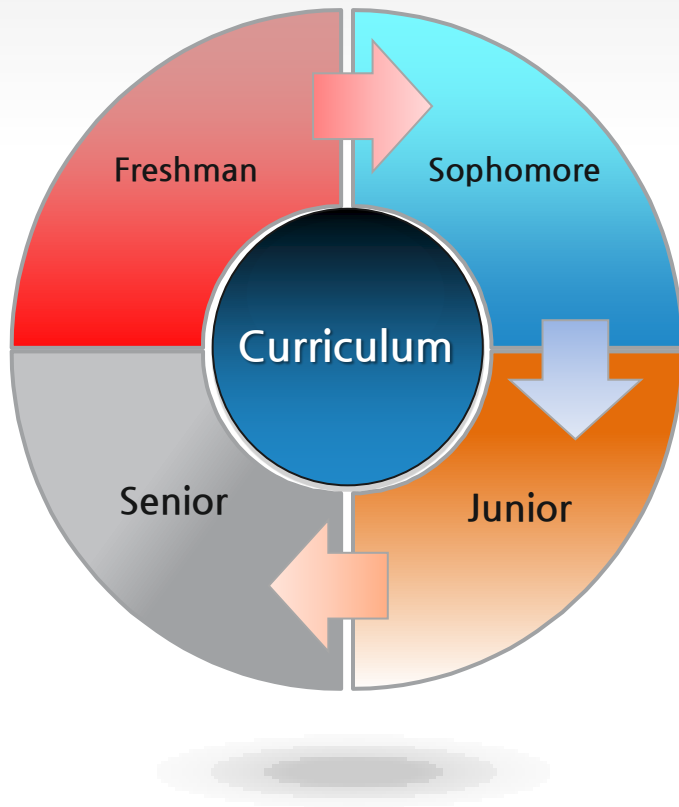
Lab: Hydrosystem Lab.

Research and Publication Info.:

1. Resilience-based water distribution system (WDS) design, operation and management
2. WDS failure event detection and pinpointing
3. Metaheuristic optimization algorithm and its application to water resources engineering

# 03 Curriculum

Chapter.



1

2<sup>nd</sup> Semester  
- Basic Design

2

1<sup>st</sup> Semester  
- Civil Fluid Mechanics  
- Surveying & Practices  
- Civil Statics

2<sup>nd</sup> Semester

- Open Channel Flow & Practices  
- Applied Mechanics & Practices  
- Construction Materials & Practices

3

1<sup>st</sup> Semester  
- Structural Analysis  
- Hydrology 1  
- Water and Wastewater Eng. & Lab.  
- Soil Mechanics & Lab.  
- Reinforced Concrete Mechanics

2<sup>nd</sup> Semester

- Hydrology 2  
- Construction Management  
- Wastewater Eng. & Lab.  
- Reinforced Concrete Structure & Design  
- ISP

4

Capstone Design and Others  
[http://tomok2.dssso.kr/sub3\\_3.php](http://tomok2.dssso.kr/sub3_3.php)



# 04 Contacts

Chapter.

- **Department Office**

**Location: Room 2112, Engineering Building #2**

- **Dept. Assistant: Beom jun Gong - Contact for classes, events, and dept. administration**
  - ❖ Phone 053-580-5819
  - ❖ Cell 010-2571-5229
  - ❖ [thskan5229@naver.com](mailto:thskan5229@naver.com)
- **Practice Assistant: Sung jin Woo - Contact for practices, labs, and equipment repair**
  - ❖ Cell 010-3151-9523
  - ❖ [gkgkgkzk@naver.com](mailto:gkgkgkzk@naver.com)

- **Professors**

- Prof. Kwon, Oh Kyun, **Room 2101, Eng. Bldg #2**, 82-53-580-5280, [ohkwon@kmu.ac.kr](mailto:ohkwon@kmu.ac.kr)
- Prof. Chung, Youn In, **Room 2115, Eng. Bldg #2**, 82-53-580-5705, [cyi@kmu.ac.kr](mailto:cyi@kmu.ac.kr)
- Prof. Chung, Ho Jin, **Room 2103, Eng. Bldg #2**, 82-53-580-5355, [hjc@kmu.ac.kr](mailto:hjc@kmu.ac.kr)
- Prof. Chang, Chunho, **Room 2111, Eng. Bldg #2**, 82-53-580-5299, [chunho@kmu.ac.kr](mailto:chunho@kmu.ac.kr)
- Prof. Chey, Min Ho, **Room 2123, Eng. Bldg #2**, 82-53-580-5293, [mchey@kmu.ac.kr](mailto:mchey@kmu.ac.kr)
- **Prof. Yang, Jun-Mo, Room 2109 Eng. Bldg #2** 82-53-580-5297 [junrhkd@gmail.com](mailto:junrhkd@gmail.com)
- **Prof. Jung, Donghwi, Room 2105 Eng. Bldg #2** 82-53-580-5706 [donghwiku@gmail.com](mailto:donghwiku@gmail.com)