



*Week 1*

# Course Introduction

**457.657 Civil and Environmental Project Management**  
Department of Civil and Environmental Engineering  
Seoul National University

**Prof. Seokho Chi**

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건설환경공학부 35동 304호

# Course Information

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- **Title: 457.657 Civil and Environmental Project Management**
- **Introductory Course of CM/PM**
  
- **Timetable**
  - Monday 3:30-5:30pm @ 35-317
  
- **Instructor: Prof. Seokho Chi**
  - [shchi@snu.ac.kr](mailto:shchi@snu.ac.kr), 35-304
  - TA: Hwikyung Chun, [hwic22@snu.ac.kr](mailto:hwic22@snu.ac.kr), 35-427, 02-880-4146

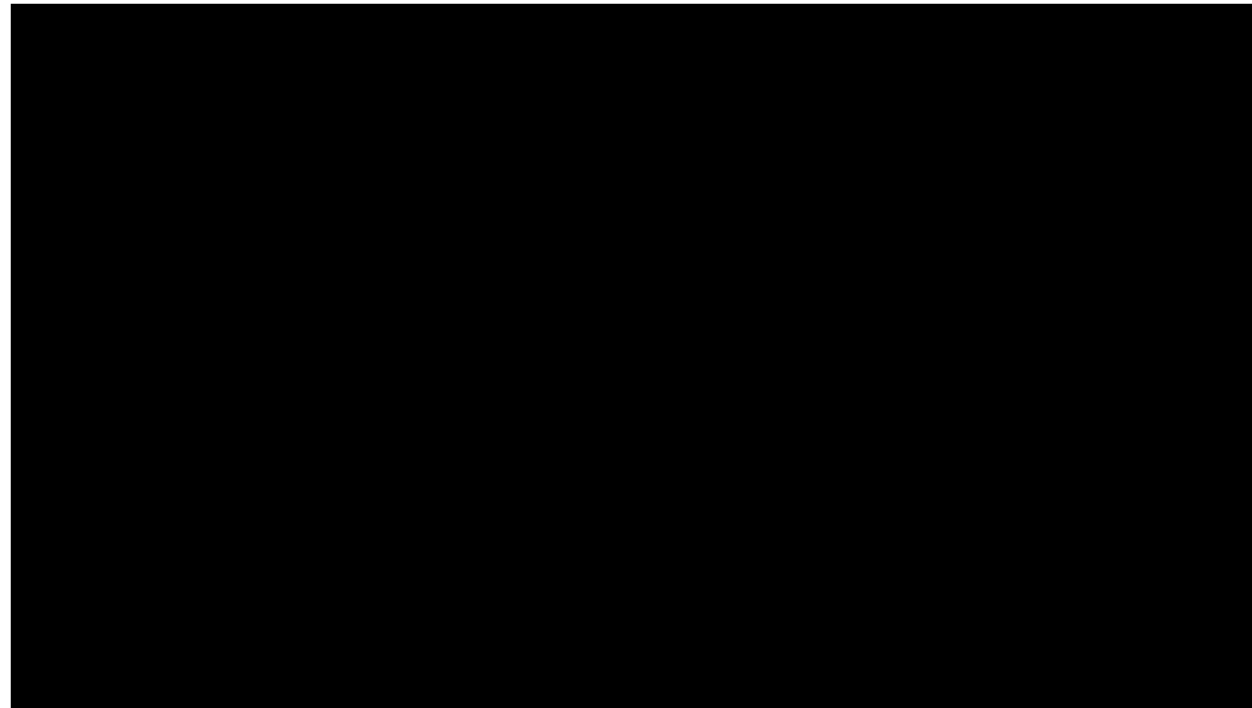
# Course Information

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- *Yourself?*
- *Why are you taking? What do you want to learn?*
  
- *What would be the PM?*

# A Day in the Life: Constr. Project Mgmt

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# Course Objectives

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- Understanding of construction industry, markets and policies
- Introduction to Construction Management (CM) and Project Management (PM) principles
- Development of construction professionals
- Understanding current industry problems, improvement opportunities and mitigation strategies

# Course Materials

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- **Required**

- Lecture slides and handouts
- eTL: Update correct contact info

- **References**

- Construction Management A to Z, 2<sup>nd</sup> Edition, 한미글로벌, 보문당
- Project Management for Engineering and Construction (PMEC), Garold D. Oberlender, McGraw-Hill
- Construction Planning and Scheduling, Jimmie W. Hinze, Pearson Prentice Hall
- 한국 건설 산업의 성공 키워드 CM/PM, 한국 건설 산업 연구원, 보성각
- A Guide to the Project Management Body of Knowledge (PMBOK Guide, Fourth Edition), PMI (Project Management Institute)

# Note

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- **English Lecture, Presentation, and Assignment**
- **Group Assignment**
  - Teamwork is important.
  - Active participation is required.
  - Bring your laptop if you have for class group activities
- **Cheating and Plagiarism**
  - 0% for the given assessment item without any excuse
  - Penalty by SNU's regulations

# Assessment

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Item	Weight	Due
Attendance	5%	
Group Assignment		
Interim Report	10%	3/26, 4/30
Final Report	15%	6/11
Final Presentation	5%	6/11
Individual Assignment	15%	Frequent
Mid-Semester Exam	20%	4/23
Final Exam	30%	6/4
TOTAL	100%	



# Course Schedule (1)

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Week	Contents
1	Course Introduction, Group Coordination
2	Introduction to Project Management Project Objective Setting
3	Project Delivery and Contract Methods Pre-Project Planning
4	<b>Group Presentation (1)</b> Pre-Project Planning
5	Decision and Risk Analysis
6	Project Scheduling (1)
7	Project Scheduling (2)

# Course Schedule (2)

Week	Contents
8	Mid-Semester Exam
9	Group Presentation (2) / Interim Report Due Project Cost Estimating
10	No Class
11	Procurement and Construction
12	Project Control and Risk Management
13	Construction Safety Management PMIS and IT Applications
14	Final Exam
15	Final Group Presentation / Final Report Due

# Group Assignment Brief

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- See handouts

# Group Assignment – Project Example (1)

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The U.S. Navy plans to design and construct two new recruit barracks to replace the old ones built between the years of 1958 and 1966, located at Naval Station Great Lakes, Illinois. This movement is a part of the RTC RECAP project, transforming Boot Camp from a deficient, facility-centric base into a state-of-the-art, training-centric environment. The entire project includes the development of the complete infrastructure (roads, sidewalks, utilities, storm drainage, elevated water tank, railroad underpass, landscaping, etc.) for a 48-acre parcel of land, adjacent to the existing RTC campus. Additional incidental related work must also be considered to provide a complete and usable facility. Each barrack will measure 16,700 square meters and will provide open bay housing for 1,100 recruits, classrooms, and advanced food service and dining facility. The total estimate cost is approximately \$80 million including two barrack (each \$30 million) facilities and green land development such as earthmoving work, road construction, building water and power supply facilities, and railway underpass.

*1 acre = 4047 m<sup>2</sup>*

*1 million \$ = 약 10 억원*

*1 billion \$ = 약 1 조원*

# Group Assignment – Project Example (2)

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Your company have been selected as the owner (Seoul National University) project manger for planning, design, and construction of a new dormitory to be built at the intersection of Gwanak-Ro and Silim-Ro. The facility will have approximately 820 beds and include food service, study facilities, meeting areas and some recreational facilities. Total space will be 145,000 square feet. The developed site is approximately 2.3 acres and the project will include demolition of an existing “farm house” that partially burned two years ago. Budget at this stage, including professional services, construction, furnishing and commissioning is set as \$54 million.

# Group Assignment – Project Example (3)

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The John Minor Wisdom 5th Circuit Court of Appeals, located in New Orleans, Louisiana was built in 1890 at a cost of 1.3 million dollars. The mechanical and electrical services need to be upgraded while the building is occupied. Your company is not allowed to make any noise, so the judges can work without interruption. Consequently, you had better perform all the renovation work between the hours of 5 pm through 6 am. While this project does not involve a large number of trades, it is still very complex due to the condition of the building. The client for this project is the Federal Government. The project budget is about \$10 million. The area has the high risk of hurricane effects as Hurricane Katrina hit New Orleans in August of 2005.

# Group Assignment (Due 3/12)

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- Form a group of 3 students → Now and email to TA
- Select a team name and logo
- Agree to team assignments
  - Group Leader, Facilitator, Recorder, Others
- Email to TA the ppt file before the class on 3/12
- Prepare 1 printed copy for submission on 3/12

*No late submission!*