



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

- **Title: 457.657 Civil and Environmental Project Management**
- **Introductory Course of CM/PM**

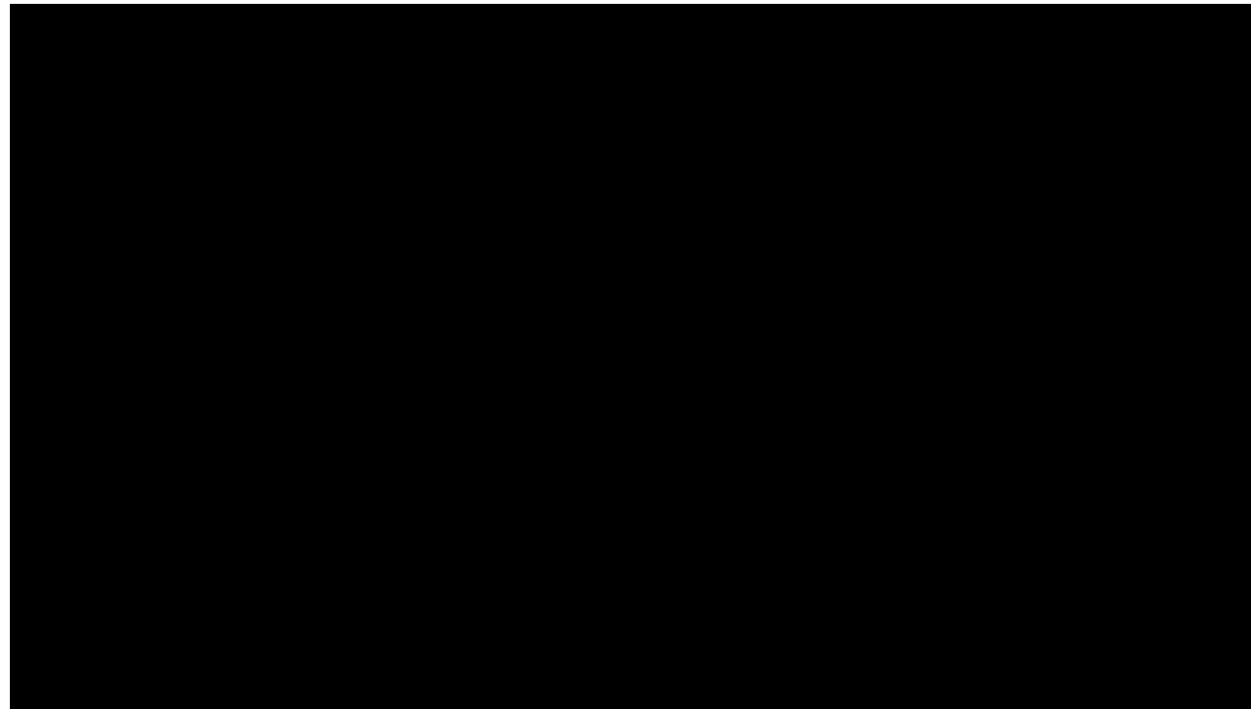
- **Timetable**
 - Monday 4-7pm @ 35동 431호

- **Instructor: Prof. Seokho Chi**
 - shchi@snu.ac.kr, 35동 304호
 - TA: Soram Lim, nicky@snu.ac.kr, 35동 429호

Course Information

- *Yourself?*
- *Why are you taking? What do you want to learn?*

A Day in the Life: Constr. Project Mgmt



Course Objectives

- 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

- **Required**

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

- **References**

- Construction Management A to Z, 2nd 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

- **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

Item	Weight	Due
Attendance	15%	
Group Assignment		
Interim Report	5%	Week 6 (7 April)
Final Report	10%	Week 14 (2 June)
Final Presentation	5%	Week 14 (2 June)
Individual Assignment	15%	
Mid-Semester Exam	20%	Week 7 (14 April)
Final Exam	30%	Week 15 (9 June)
TOTAL	100%	

Course Schedule (1)

Week	Date	Contents
1	3.3	Course Introduction, Group Coordination
2	3.10	Introduction to Project Management Project Objective Setting
3	3.17	Project Delivery and Contract Methods Pre-Project Planning
4	3.24	Pre-Project Planning Decision and Risk Analysis
5	3.31	Project Scheduling (1)
6	4.7	Project Scheduling (2)

Course Schedule (2)

Week	Date	Contents
7	4.14	Mid-Semester Exam
8	4.21	Project Cost Estimating (1)
9	4.28	Project Cost Estimating (2)
10	5.5	Break (Children's Day)
11	5.12	Procurement and Construction Project Control and Risk Management
12	5.19	Project Control and Risk Management Construction Safety Management
13	5.26	PMIS and IT Applications
14	6.2	Final Group Presentation
15	6.9	Final Exam

Group Assignment Brief

- See handouts

Group Assignment – Project Example (1)

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.

Group Assignment – Project Example (2)

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)

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 3/10)

- Form a group of 3-4 students
- Select a team name and logo
- Agree to team assignments
 - Group leader
 - Facilitator
 - Recorder
 - Others