

Project Planning and Control Methods

Course Overview

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Construction Engineering and Management



Project Planning and Control Methods

2

□ **Purpose of the course**

- To give you a basic knowledge required for planning and controlling construction projects



Question: Are you going to be a project planner after this course?

□ **Prerequisites:**

- General engineering knowledge

□ **Class audiences**

- Construction Engineering and Management Students, Civil (and other) Engineering Students (BSc, MSc and PhD) who are interested in working in a project based environment

Project Planning and Control Methods

3

□ Course outline

#	Topic
1	Introduction to project management
2	An overview of project management body of knowledge
3	Project Integration Management
4	Project Scope Planning
5	Project Time Planning – Initial Schedule Development
6	Project Time Planning –Schedule Presentation
7	Project Time Planning -Schedule Constraints
8	Project Time Planning -Probabilistic Activities
9	Project Cost Planning
10	Project Time, Cost and Scope Control
11	Project management in big owner organizations

Project Planning and Control Methods

4

□ **Grade Distribution:**

- Home Assignments: 15%
- Lab/ in Class Exercises: 10%
- Term Project: 15%
- Final Exam: 60% (Open book)

□ **Texts and References**

- Mubarak, S. (2010) "*Construction Project Scheduling and Control*", Second Edition, John Wiley and Sons, Toronto, Canada. ISBN 978-0-470-50533-5
- Ahuja H., Dozzi S., and AbouRizk S., (1994) "*Project Management: Techniques in Planning and Controlling Construction Projects*", Second Edition, John Wiley and Sons, Toronto, Canada. ISBN 0-471-59168-8.
- A Guide to the Project Management Body of Knowledge (available from PMI, www.pmi.org, and from U of A Internet Access). 3rd and 4th edition.



Thank you!