

PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE
COLLEGE OF ENGINEERING
DEPARTAMENT OF COMPUTER SCIENCE
ABET COURSE SYLLABI

IIC3113 IT PROJECT MANAGEMENT

Credits and contact hours:	10 credits / 10 hours (3 h. Lectures; 1,5 h. Assistanship; 5,5 individual work hours per week)
Instructor's name:	Sergio Concha
Course coordinator's name	Marcos Sepúlveda
Textbook:	Project Management Institute (2013) A Guide to the Project Management Body of Knowledge. 4 th ed. PMBOK Guides, Paperback.
Course Catalog Description:	This course teaches the management concepts of IT projects. It is focused on the development of an IT system, because those are riskier than regular projects and IT is a relatively new discipline in engineering compared to electrical and construction fields. IT projects are reviewed from their life cycle, including scope analysis and resource management, up to their operational realization and code testing, data bases and system functionality.
Prerequisite Courses:	IIC2154 Capstone major-field project
Co-requisite Courses:	None
Status in the Curriculum:	Minimum course
Course Learning Outcomes:	<ol style="list-style-type: none">1. To describe the strategic value of IT project management.2. To manage the execution of a project: starting, planning, execution, monitoring and closing of a project.3. To use methodologies and tools to support project management, in the context of IT projects. To select the best tools for each situation..4. To describe the interaction with higher management levels, to promote the project objectives and to perform activities related to project management.

**Relation of Course to ABET
Criteria:**

- c. Design a system, component, or process
- d. Multidisciplinary teams
- e. Identify, formulate, and solve engineering problems
- f. Professional and ethical responsibility
- g. Effective communication
- h. Broad education necessary for global, economic, environmental and societal context

Topics covered:

1. Life cycle of a project: starting, planning, execution, monitoring, controlling and closing.,
2. To determine team works and required skills.
3. Roles and responsibilities of the project team.
4. Managing expectations of directors, users, clients, team members and others.
5. Project planning.
6. Project monitoring, metrics and evaluation system.
7. Management of scope, time and costs.
8. Management of requirements, quality, risks and changes.
9. Management of communications in a project. Report presentation and presentation techniques.
10. Project management support processes; PMBOK.
11. Tools for planning and monitoring projects.
12. Tools for collaborative work.