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# Project management

## Programma

A General introduction to the meaning of "project"

- < flows and impulses in company's life
- < definitions and peculiarities of a project
- < projects inside the company  
(research and development of new products )  
(implementations and modifications to the organisation company's structure)
- < projects "engineering to order" (outside the company)  
(projects with high capital investment - projects of industrial plants)

B Projects of industrial plants

b.1. related to engineering and contracting companies (main contractors)

- generals
- project life cycle
- project like a system
- project architecture
- project planning
- project whole control
- network project planning
- risk management

b.2. related to construction companies (spec. contractors)

- market , peculiarities and characteristics of construction companies
- company organisation with a project management structure
- links and interlocutors of a Project Manager
- commercial activities : Proposal Manager
- <clients : public and private
- <Project Financing and P.P.P.
- <estimation : scope of work specification
- <estimation : quantities definition
- <estimation : direct/non direct resources , project's cash flow
- <project's planning : backward scheduling , istograms , S type curves
- <final cost estimation
- <from costs to price : overhead and profits , MDC , breakeven
- managing activities : Project Manager
- <PM responsibility and target : objectives , MBO
- <project's production unit : the site ; organizing structures ana peculiarities
- <integrated project's managing control
- <scheduling control , main techniques
- <quality control , cost of non quality
- <project's costs and revenues control : site accountability
- <production evaluation : the earned value
- <relationships with the client during construction : techniques and tools
- <project's modification during construction : managing the problem
- <claim management

## Attività d'esercitazione

Will be prepared with the students an actual bid for a project related to the construction of a gasline in Italy , employing Microsoft Project software.

## Modalità d'esame

Oral examination foreseen

## Propedeuticità

Oral examination foreseen

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Testi consigliati

F. Corini : Il Project Management nelle Imprese di costruzioni , dispensa ed. terza marzo 2004

F. Caron , Gestione dei progettidi impianti , ed. cusl 2001