



American University of Beirut  
Industrial Engineering and Management  
**Introduction to Project Management – INDE 411**

**Course Number:** INDE 411

**Course Name:** Introduction to Project Management

**Instructor:** Dr Selim Hani

**Office:** RGB 408

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**Office Hours:** TBD.

**Materials:**

- Lecture Notes.
- Meredith and Mantel, *Project Management: A managerial Approach*.
- Project Management Body of Knowledge (PMBOK Guide)

Suggested:

- Jeffrey K. Pinto, *Project Management: Achieving a Competitive Advantage*, Fourth Edition.

**Prerequisites:** INDE 302/303



**Course Description:**

This course explores technical and managerial challenges of project management in general. The topics addressed in this course range from project selection techniques, project planning, budgeting, risk analysis, resource management to project monitoring and termination. The goal is to understand how project management decisions are reached, what tradeoffs are made, and how outcomes depend on the underlying situation. In line with management consulting firms interests, this course will cover company auditing techniques and students will be required to conduct two term projects relating to an in-life situation: one that can be related to a consulting expertise and the other applying a project management knowledge.

**Relationship to Other Courses:**

This course covers project management techniques in general allowing for a wide and diverse student audience with applications in business, information systems, engineering, among other applications.

**Performance Evaluation and Grading:**

Class Quizzes	20%
Midterm Exam	15%
Final Exam	25%
Project A	20%
Projects B	20%
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Total	100%



## Summary of Topical Coverage:

- I. Introduction to project management
  - II. The nature and selection of projects
    - a. Approaches to project screening
    - b. Financial models (introduction to spread sheet simulation).
    - c. Project portfolio management
  - III. Project planning, scope, scheduling:  
Critical Path Method
  - IV. Risk management and risk analysis tools:
    - a- Ichikawa Diagrams
    - b- Risk registers
    - c- Mitigation plans
  - V. Cost estimation and budgeting
    - a- Calculations and formulas
    - b- Learning curve
  - VI. Scheduling
    - a. Networks, duration estimation and lagging
    - b. Crashing and schedule optimization
  - VII. Allocation and management of resources  
- resource leveling
  - VIII. Critical Chain Project Scheduling
  - IX. Agile Project Management
  - X. PMBOK processes
  - XI. Project evaluation, control and monitoring
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**Use of Technology:**

Students will be expected to use software tools such as Microsoft Project, Microsoft Excel for completing their assignments, projects and exam.

**Academic Honesty:**

Students are expected to complete all work with the highest standard of integrity in line with AUB's Student Code of Conduct and Honor Code. Plagiarism, forgery, cheating or any form of academic misconduct will not be tolerated. Any of the above may cause a student's final course grade to be lowered significantly or the student may receive a failing grade, depending on the severity of the offence. Plagiarism is the presentation of the work of another as one's own work.

**Other Course Policies:**

Cases/Readings/Assignments: will be posted on Moodle. Students will be informed if they have to answer individually or in groups.

Groups are assigned at the beginning of the term and are to be respected throughout the semester.

Email: Information concerning the course may be sent by the instructor to students by Moodle. Students are responsible for keeping AUB email accounts functioning properly.

Moodle: Course material & assignments will be available through Moodle.