



American University of Beirut
Industrial Engineering and Management
Introduction to Project Management - ENMG 632

Course Number: ENMG 632

Course Name: Project Planning Scheduling and Control

Instructor: Dr Walid Nasr

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Office Hours: TBD.

Materials:

- Jeffrey K. Pinto, *Project Management: Achieving a Competitive Advantage*, Second Edition.
- Lecture Notes.

Suggested:

- Mantel, Meredith, Shafer and Sutton, *Project Management in Practice*, third Edition.
- Meredith and Mantel, *Project Management: A managerial Approach*.
- Project Management Body of Knowledge (PMBOK Guide)

Prerequisites: ENMG 603



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. Decision analysis tools such as linear/non-linear programming and spread sheet simulation are utilized. Software packages used are Microsoft Project, Risk Solver/Crystal Ball and Excel Solver.

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:

Final	45%
Project (Group Work) / Quiz	35%
Cases/Assignments/Readings (Individual Work)	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 and scope
 - IV. Risk management and risk analysis tools
 - V. Cost estimation and budgeting
 - VI. Scheduling
 - a. Networks, duration estimation and lagging
 - b. Crashing and schedule optimization
 - c. Analyzing schedule variability and risk
 - VII. Allocation and management of resources
 - VIII. Critical Chain Project Scheduling
 - IX. Design Structure Matrix
 - X. 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 and Excel Solver Add-in and @Risk/Crystal Ball 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 are expected to solve them individually unless stated otherwise.

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, and grades will be available through Moodle.