

The University of Jordan
Faculty of Engineering and Technology
Industrial Engineering Department
1st Semester 2014/2015

Course Title: Project Management & Network Analysis IE 0936711:

Learning/Teaching Methods: Lectures/Problem solving sessions.

1. Interactive Power Point Presentation.
2. Lecture/Problem solving sessions.
3. Projects.
4. Cases, Homework & quizzes.
5. MS Project.

Assessment Methods: Home works, and Short Exams
Midterm Exam
Projects and cases
Final exam

Providing Department: Industrial Engineering
Instructor: Prof. Dr. Ghaleb Y. Abbasi B.Sc, EAD, D.Sc, PMP
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Class time: Section 1: Thursday: 03:30-06:30

Section 2: Monday: 03:30-06:30

Class Place: IE. 101

Office Hours: Section 1: Thursday: 02:30-03:30
Section 2: Monday: 02:30-03:30

Course Description:

3 Credit hours (3 h lectures). The main objective of this course is to represent the different aspects of a integrated project as a system. Project management concepts, system's approach, and the different tools for project planning, scheduling and control will be discussed. The ten areas covered by the PMI's© Project Management Book of Knowledge (PMBOK5©) will be discussed. Important deterministic and probabilistic networks addressed. Computer applications using MS Project will be addressed. (As per 2005-2006 plan catalog description).

Course Prerequisite: Knowledge and experience in the project management filed is preferred.

Course Objectives/ Student Learning Outcomes:

Students will be expected to develop the following skills/understanding upon the successful completion of the course:

1. Understand the dynamic environment of project management.
2. Manage projects from initiation to termination.
3. Learn how to use the different project management tools in the work environment.
4. Develop project management skills essential for today's organization survival.

Text Books and References:

Recommended Readings

1. Project Management Institute. (2013). A Guide to the Project Management Body of Knowledge (PMBOK[®] Guide), 5th Edition. Newton Square, Pennsylvania, USA.
2. Pinto, Jeffrey K. (2010). "Project Management; Achieving Competitive Advantage", 2nd Edition. Pearson Education Inc. New jersey, USA.

Additional Readings:

3. Forsberg, Kevin; Mooz, Hal; PMP; Cotterman, Howard. (2000). Visualizing Project Management. John Wiley & Sons, Inc. USA.
4. Kerzner, Harold. (2001). Project Management, A Systems Approach to Planning, Scheduling, and Control, 7th Edition. John Wiley & Sons Inc., USA.
5. Lewis, James P. (2007). Fundamentals of Project Management. 3rd Edition. AMACOM, NY, USA.
6. Mantel, Jr., Samuel J.; Meredith, Jack R.; Shafer, Scott M.; and Sutton, Margaret M. (2001). Project Management in Practice. John Wiley, USA.
7. Meredith, Jack R. and Mantel, Jr. Samuel J. (2006). "Project Management: A Managerial Approach". 6th Edition, John Wiley & Sons Inc., USA.

8. ندرلأا، نامع، تيزكرملا عباطملا. تلماكتملا عيراشملا قرادا ئايساسأ (. 5991 . فسوی بلاغ، يسابع.
9. تيروهج، قرهاقلا، ئاديروتلاو قيوستلل ءدحتملا تيبر علا تكرشلا. عيراشملا قرادا (. 9009 . دمحم، ناهرب رون؛ بلاغ، يسابع. تيبر علا رسم.

Grading:

	Percentage	On	Date and Time
1 Quizzes, HW & Participation	10%		On going
2 Project/ Case Study	90%	Via E mail	A. Scope due by 12/10/2014 B. WBS due by 23/10/2014 C. Final due on 24/12/2014
3 Midterm	30%	Saturday	08/11/2014, 3:30 – 6:00 PM
4 Final Examination	40%	Saturday	03/01/2015, 3:30 – 6:00 PM
Total	100%		

Tentative course outline:

Chapter	Week of	Topics
1	14/9/2014	1. Introduction 2. Project Life Cycle 3. Project Management
2	21/9/2014	4. Project Integration Management 5. Project Scope Management
3	28/9/2014 & 05/10/2014	6. Project Time Management

4	12/10/2015	Phase A – Project Scope
5	19/10/2014	7. Project Cost Management Phase B – Project WBS
6	26/10/2014	8. Project Quality Management
7	08/11/2014	Mid Term Exam
8	16/11/2014	9. Project Human Resource Management
9	23/11/2014	10. Project Communications Management
10	30/11/2014	11. Project Risk Management
11	07/12/2014	12. Project Procurement Management
12	14/12/2014	13. Project Stakeholders Management
13	21/12/2014	Phase C - Project Submission
14	03/01/2015	Final Exam

The Project (Case Study)

Each student is expected to submit a Project/Case Study applying the methods, tools & techniques learned during the course, along with their current and previous knowledge and experience, (if any). Each Project should contain

1. The report should be arranged in the following general organization as a minimum: Table of contents, Abstract, Introduction, Literature Review, Paper Body, Discussion, and Conclusions & Recommendations.
2. At least five recent references in the area, with complete reference & Bibliography.
3. Typed, 1.5 space with all figures, tables, charts ... done in an organized professional manner (no scans).
4. A PPP for each paper with about 10 minutes for presentation, which should be done in a professional manner with the proper visual aids.

Following is a list of previous projects:

1. Conditions affecting projects in Jordan, or Conditions affecting projects in less Developed Countries.
2. Applying systems theory to project management problems.
3. Risk Analysis in project management.
4. Organizing project control systems.
5. Development of project management in Jordan.
6. The application of project management techniques to construction & research and development projects.
7. Matrix approach to project planning design & management.
8. Project management: the promise for developing countries.
9. Network application in industry & Government (in Jordan).
10. The use of Microcomputers in project management in Jordan - A survey.
11. An algorithm for project cost-duration analysis problem cost function
12. Decision support system for multi project scheduling of resources.
13. Economic optimization of project scheduling
14. Scheduling with limited resources
15. A heuristic model for scheduling large projects with limited resources.
16. Some properties of schedules for large projects with limited resources.
17. Planning and control of repetitive projects.
18. The construction Industry in Jordan.