

EC313

Project Management Systems

[Onsite]

Course Description:

This course concentrates on the actual, day-to-day management concepts and methods used to implement Information Technology (IT) related projects, and is designed to provide a conceptual understanding of the project management process. Students will use a project management software to fulfill project requirements.

Prerequisite(s) and/or Corequisite(s):

Prerequisite: EC312 Project Management Techniques

Credit hours: 4

Contact hours: 40 (40 Theory Hours)

SYLLABUS: Project Management Systems

Instructor: _____

Office hours: _____

Class hours: _____

MAJOR INSTRUCTIONAL AREAS

1. Develop a conceptual understanding of project management processes.
2. Manage the day-to-day activities of an Information Technology (IT) project by applying Project Management knowledge, tools, skills, and techniques.

COURSE OBJECTIVES

After successful completion of this course, the students will have the opportunity to:

1. Discuss the correlation between Project Process Architecture (PPA) and Project Management Body of Knowledge (PMBOK).
2. Implement the Idea stage of PPA to manage an IT project.
3. Analyze the requirements for an IT project to implement the Pre-Launch stage of PPA.
4. Implement the Launch stage of PPA to manage an IT project.
5. Create a project schedule.

6. Discuss the need for project tracking.
7. Discuss the Implement and Operation stages of PPA to manage an IT project.
8. Demonstrate the effective and efficient use of the ITT Tech Virtual Library to locate concepts and methods used to implement IT-related projects.

Related SCANS Objectives

- Demonstrate the ability to allocate time.
- Apply decision-making skills to specify goals and constraints, and find the best alternatives while always considering risks.
- Recognize problems and devise and implement a plan of action.
- Acquire, organize, evaluate, and maintain information.
- Demonstrate competence in applying technology to tasks.

TEACHING STRATEGIES

The curriculum is designed to promote a variety of teaching strategies that support the outcomes described in the course objectives and that foster higher cognitive skills. Delivery makes use of various media and delivery tools in the classroom.

COURSE RESOURCES

Student Textbook Package

- Kapur, Gopal. *Project Management for Information, Technology, Business and Certification*. Upper Saddle River, NJ: Prentice Hall, 2005.

Including CD ROM

Issued in EC311 (to be used as a reference)

- *A Guide to Project Management Body of Knowledge (PMBOK® Guide). 4th ed. Newtown Square, PA: Project Management Institute, Inc., 2008 used in previous courses*

Issued in EC312 (to be used as a reference)

- Workbook:
 - Pascarella, Mary and Dawn Wood. *Essentials, Microsoft Office Project 2003*. Prentice Hall, 2004.
Companion Website: www.prenhall.com/essentials

References and Resources

ITT Tech Virtual Library

Login to the ITT Tech Virtual Library (<http://www.library.itt-tech.edu/>) to access online books, journals, and other reference resources selected to support ITT Tech curricula.

- **Books**

- Bainey, Kenneth. Integrated IT Project Management: A Model-Centric Approach, Nashville, TN: Artech House, Incorporated, 2004 ISBN 1-58053-828-2
- Brandon, Dan. Project Management for Modern Information Systems. Parker, CO: IRM Press, 2005. ISBN 1-59140-695-1
- Chin, Gary. Agile Project Management: How to Succeed in the Face of Changing Project Requirements. NY: AMACOM, 2003 ISBN 0-8144-7176-5
- Faulconbridge, Ian and Michael Ryan. Managing Complex Technical Projects: A Systems Engineering Approach. Nashville, TN: Artech House, Incorporated, 2002 ISBN 1-58053-764-2
- Fioravanti, Fabrizio. Skills for Managing Rapidly Changing IT Projects. Parker, CO: IRM Press, 2005. ISBN 1-59140-759-1
- Schuh, Peter. Integrating Agile Development in the Real World. Rockland, MA,: Charles River Media, 2004 ISBN 1-58450-364-5
- Taylor, James. Managing Information Technology Projects: Applying Project Management Strategies to Software, Hardware, and Integration Initiatives. NY: AMACOM, 2003 ISBN 0-8144-0811-7

- **Periodicals**

- International Journal of Project Management

- PM Network
 - PMI Today
 - Project Management Journal
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- **Reference Resources**
 - Project Management>Microsoft Project
 - Project Management Forum
 - Project Management Institute

- **Other**
 - Center for Project Management home site: <http://www.center4pm.com/>
 - Center for Project Management: Success Equation: <http://www.center4pm.com/Equation/PPA.cfm>
 - Information Systems Specific Interest Group: Project Management Institute: <http://www.pmi-issig.org/Default.aspx?tabid=1>
 - Information Systems Specific Interest Group: Project Management Institute: *The Seven Deadly Sins of Project Management*

All links to web references outside of the virtual library are always subject to change without prior notice.

EVALUATION & GRADING

COURSE REQUIREMENTS

1. Attendance and Participation

Regular attendance and participation are essential for satisfactory progress in this course.

2. Completed Assignments

Each student is responsible for completing all assignments on time.

3. Team Participation (if applicable)

Each student is responsible for participating in team assignments and for completing the delegated task. Each team member must honestly evaluate the contributions by all members of their respective teams.

Evaluation Criteria Table

The final grade will be based on the following weighted categories:

CATEGORY	WEIGHT
Participation	20%
Writing Assignments	20%
Project Part 1	15%
Project Part 2	15%
Project Part 3	10%
Project Part 4	10%
Project Part 5	10%
Total	100%

Grade Conversion Table

Final grades will be calculated from the percentages earned in class as follows:

A	90 - 100%	4.0
B+	85 - 89%	3.5
B	80 - 84%	3.0
C+	75 - 79%	2.5
C	70 - 74%	2.0
D+	65 - 69%	1.5
D	60 - 64%	1.0
F	<60%	0.0

COURSE OUTLINE

Note:

- Where the start and ends for an activity are not specified, the assignment is supposed to be completed and submitted in that unit.
- For all units, except Unit 1, you should recommend to the students that they complete the readings before attending the class.
- Unit 1: Since all the concepts will be covered in the class, the specified readings are merely for reference. However, students who miss the first class will need to review the reference material for Unit 1.

Unit #	Activities for the unit
1	<ul style="list-style-type: none"> • Reference Pages Only: <ul style="list-style-type: none"> ○ Kapur, Gopal. <i>Project Management for Information, Technology, Business and Certification</i>. Upper Saddle River, NJ: Prentice Hall, 2005 - Chapter 2: <i>Fundamentals - Pages 54-65</i> ○ PMBOK book: <ul style="list-style-type: none"> ▪ Chapter 1: Introduction - Pages 3-18 ▪ Chapter 2: Project Life Cycle and Organization - Pages 15-33 ▪ Chapter 3: Project Management Processes for a Project - Pages 35-70 ▪ Chapter 4: Project Integration Management - Pages 78-104 • Writing Assignments: 1 • Discussion and Participation Activity: Activity 1.3
2	<ul style="list-style-type: none"> • Read <ul style="list-style-type: none"> ○ Chapter 4: The Pre-Launch Stage - Pages 109-133 • Writing Assignments: 1 and 2 • Discussion and Participation Activity: Activity 2.2 and 2.3

Unit #	Activities for the unit
	<ul style="list-style-type: none">• Project: Start Part 1
3	<ul style="list-style-type: none">• Read<ul style="list-style-type: none">○ Chapter 4: The Pre-Launch Stage - Pages 137-148• Writing Assignments: 1• Discussion and Participation Activity: Activity 3.1 and 3.2
4	<ul style="list-style-type: none">• Read<ul style="list-style-type: none">○ Chapter 4: The Pre-Launch Stage - Pages 148-159• Writing Assignments: 1• Discussion and Participation Activity: Activity 4.3

Unit #	Activities for the unit
5	<ul style="list-style-type: none"> • Read <ul style="list-style-type: none"> ○ Chapter 4: The Pre-Launch Stage - Pages 159-166, 166-169, 178-181, 194-202 • Writing Assignments: 1 • Discussion and Participation Activity: Activity 5.3 • Project: Start Part 2
6	<ul style="list-style-type: none"> • Read <ul style="list-style-type: none"> ○ Chapter 5: Launch Stage - Pages 206-241 • Writing Assignments: 1 • Discussion and Participation Activity: Activity 6.1 and 6.2 • Project: Start Part 3
7	<ul style="list-style-type: none"> • Read <ul style="list-style-type: none"> ○ Chapter 5: Launch Stage - Pages 241-255, 310-314 <p>Reference Pages Only:</p> <ul style="list-style-type: none"> ○ Kapur, Gopal. <i>Project Management for Information, Technology, Business and Certification</i>. Upper Saddle River, NJ: Prentice Hall, 2005 - Chapter 5: The Launch Stage - Pages 255-310 • Writing Assignments: 1 • Discussion and Participation Activity: Activity 7.1
8	<ul style="list-style-type: none"> • Read <ul style="list-style-type: none"> ○ Chapter 5: Launch Stage - Pages 314-316 ○ Chapter 6: Launch Stage: Developing Detailed Estimates - Page 351

Unit #	Activities for the unit
	<p>Reference Pages Only:</p> <ul style="list-style-type: none"> ○ Kapur, Gopal. <i>Project Management for Information, Technology, Business and Certification</i>. Upper Saddle River, NJ: Prentice Hall, 2005 - Chapter 6: Launch Stage: Developing Detailed Estimates - Page 320-350 <ul style="list-style-type: none"> ● Writing Assignments: 1 ● Discussion and Participation Activity: Activity 8.1 and Discussion 1
9	<ul style="list-style-type: none"> ● Read <ul style="list-style-type: none"> ○ Chapter 7: Execute Stage: Schedule, Track, and Control the Project - Pages 357-371, 430-442 <p>Reference Pages Only:</p> <ul style="list-style-type: none"> ○ Kapur, Gopal. <i>Project Management for Information, Technology, Business and Certification</i>. Upper Saddle River, NJ: Prentice Hall, 2005 - Chapter 7: Execute Stage: Schedule, Track, and Control the Project - Pages 371-427 <ul style="list-style-type: none"> ● Writing Assignments: 1 ● Project: Start Part 4
10	<ul style="list-style-type: none"> ● Read <ul style="list-style-type: none"> ○ Chapter 7: Execute Stage: Schedule, Track, and Control the Project - Pages 446-449 ● Writing Assignments: 1 and 2 ● Discussion and Participation Activity: Activity 10.3 ● Project: Start Part 5
11	Final Project

INTENT/INTERFACE

This course is the third in a series of courses that provides the students with a solid foundation in technical project management. EC311 was the introduction course, and EC312 provided the students with elements that would help them effectively manage developing and controlling projects.

The goal of EC313 is to provide the students with an opportunity to apply these concepts and their previous knowledge.

Upon completion of this course, the students will have a deeper understanding of the scope of their roles as professional technical project managers. They will be equipped with working knowledge of the situations they may encounter in the real world and the possible course of action they need to take. The understanding of the project management process, its application, and its significance in making optimal decisions will help the students take on the task of project managers confidently. Moreover, they will be in a position to cope with dynamic situations at a quickly. They will also be able to meet the challenges and opportunities needed to make their organizations forerunners in competitive market scenarios.