

# *PM*

## *(Project Management)*

*International Campus – Kish*  
*Sharif University of Technology*

*Session # 1*



## *Course Description*

- *Instructor*
  - *Omid Fatahi Valilai, Ph.D. Industrial Engineering Department, Sharif University of Technology*
  - *Email: [Omidf@ie.sharif.edu](mailto:Omidf@ie.sharif.edu), Tel: 021-6616-5706*
  - *Web site: <http://sharif.edu/~fvalilai>*
- *Class time*
  - *Wednesdays*
- *Course evaluation*

▪ <i>Mid-term</i>	<i>(30%)</i>
▪ <i>Final exam</i>	<i>(40%)</i>
▪ <i>Quiz</i>	<i>(10%)</i>
▪ <i>Exercise</i>	<i>(20%)</i>

## Course Description (Continued ...)

- **Mid-term session:**
  - 20<sup>th</sup>, Azar 1393
- **Reference:**
  - Kerzner, H., “Project Management—A Systems Approach to Planning, Scheduling, and Controlling, Eighth Edition”, 2003, John Wiley & Sons, Inc.
  - Lewis, James P.; “Project planning, scheduling, and Control a hands-on guide to bringing projects in on time and on budget”, 2001, McGraw-Hill
  - Project Management Institute; “A Guide to the Project; Management Body of Knowledge”, 5<sup>th</sup> edition, 2013, Project Management Institute, Inc.



International Campus – Kish, Sharif University of Technology  
PM (Project Management), Session #1

3

## Course Description (Continued..)

- **Contents:**
  - Chapter 1 - Overview
  - Chapter 2 - Project Management Growth—Concepts and Definitions
  - Chapter 3 - Organizational Structures
  - Chapter 4 - Organizing and Staffing the Project Office and Team
  - Chapter 5 - Management Functions
  - Chapter 6 - Time Management and Stress
  - Chapter 7 - Conflicts
  - Chapter 8 - Special Topics
  - Chapter 9 - The Variables for Success
  - Chapter 10 - Working with Executives
  - Chapter 11 - Planning

International Campus – Kish, Sharif University of Technology  
PM (Project Management), Session #1

5

## Course Description (Continued..)

- *Contents:*
  - *Chapter 12 - Network Scheduling*
  - *Chapter 13 - Project Graphics*
  - *Chapter 14 - Pricing and Estimating*
  - *Chapter 15 - Cost Control*
  - *Chapter 16 - Trade-off Analysis in a Project Environment*
  - *Chapter 17 - Risk Management*
  - *Chapter 18 - Learning Curves*
  - *Chapter 19 - Modern Developments in Project Management*
  - *Chapter 20 - Quality Management*
  - *Chapter 21 - Contracts and Procurement*
  - *Chapter 22 - Critical Chain Project Management*

*International Campus – Kish, Sharif University of Technology  
PM (Project Management), Session #1*

6

## Chapter 1 - Overview

- *Project:*
  - *A project can be considered to be any series of activities and tasks that:*
    - *Have a specific objective to be completed within certain specifications*
    - *Have defined start and end dates*
    - *Have funding limits (if applicable)*
    - *Consume human and nonhuman resources (i.e., money, people, equipment)*
    - *Are multifunctional (i.e., cut across several functional lines)*

*International Campus – Kish, Sharif University of Technology  
PM (Project Management), Session #1*

7

## Chapter 1 - Overview

- *Project management:*
  - *Project management, involves project planning and project monitoring :*
  - *Project planning*
    - *Definition of work requirements*
    - *Definition of quantity and quality of work*
    - *Definition of resources needed*
  - *Project monitoring*
    - *Tracking progress*
    - *Comparing actual outcome to predicted outcome*
    - *Analyzing impact*
    - *Making adjustments*

## Chapter 1 - Overview

- *Successful Project management:*
- *Successful project management can then be defined as having achieved the project objectives:*
  - *Within time*
  - *Within cost*
  - *At the desired performance/technology level*
  - *While utilizing the assigned resources effectively and efficiently*
  - *Accepted by the customer*

## Chapter 1 - Overview

- *Project management concepts:*
- *Project management can mean different things to different people.*
- *For the ongoing projects within the company which the project management is used to control the activities, In such a case, the following might be considered an appropriate definition:*

*Project management is the art of creating the illusion that any outcome is the result of a series of predetermined, deliberate acts when, in fact, it was dumb luck.*

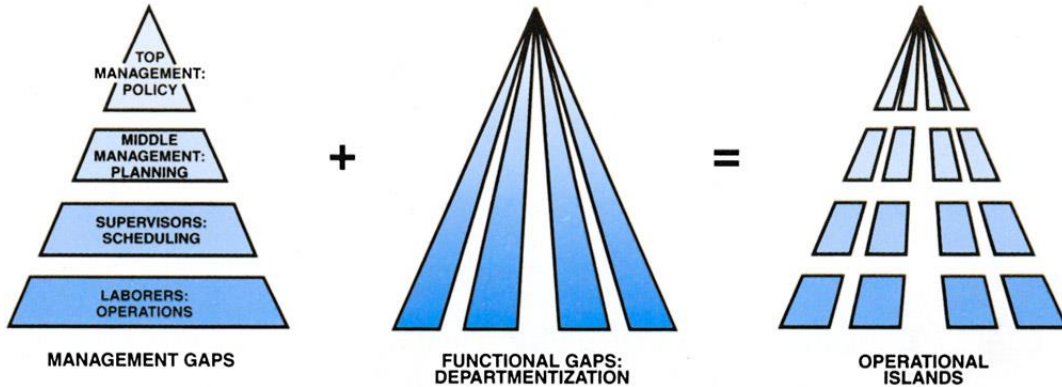
## Chapter 1 - Overview

- *Project management concepts:*
- *Project management is designed to make better use of existing resources by getting work to flow horizontally as well as vertically within the company.*
- *This approach does not really destroy the vertical, bureaucratic flow of work but simply requires that*

*line organizations talk to one another horizontally so work will be accomplished more smoothly throughout the organization*

## Chapter 1 - Overview

- Project management concepts:



International Campus – Kish, Sharif University of Technology  
PM (Project Management), Session #1

12

## Chapter 1 - Overview

- Project management concepts:
- The following would be an overview definition :

*Project management is the  
planning, organizing, directing, and controlling  
of company resources  
for a relatively short-term objective  
that has been established to complete specific goals and objectives.  
Furthermore, project management utilizes the systems approach to management by  
having functional personnel (the vertical hierarchy)  
assigned to a specific project (the horizontal hierarchy).*

International Campus – Kish, Sharif University of Technology  
PM (Project Management), Session #1

13

## Chapter 1 - Overview

- *Project management concepts:*
- *The following would be an overview definition :*

