MIS
(Management Information System)
(21-972)

Department of Industrial Engineering
Sharif University of Technology

Session #5

Course Description

- **Instructor**
  - Omid Fatahi Valilai, Ph.D. Industrial Engineering Department, Sharif University of Technology
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- **Class time**
  - Saturday-Monday 10:30~12:00

- **Course evaluation**
  - Mid-term (20%)
  - Final exam (20%)
  - Quiz (10%)
  - Exercise-Projects (30%)
Course Description (Continued ...)

- **Mid-term session:**
  - Saturday, 7th, Azar 1394
- **Final session:**
  - Monday, 28th, Dey 1394
- **Reference:**

Course Description (Continued ...)

- **Reference:**
  - William S. Davis, David C. Yen, “The information system consultant’s handbook: system analysis and design”, 2010, Taylor and Francis
  - Terence Lacey; “Management Information Systems”, 2004, Cengage Learning EMEA
  - Gabriele Piccoli; “Information systems for managers: texts & cases “, 2007, John Wiley & Sons Inc
Course Description (Continued..)

Contents:

- Introduction to Systems Analysis and Design
- Analyzing the Business Case
- Managing Systems Projects
- Requirements Modeling
- Data and Process Modeling
- Object Modeling
- Development Strategies
- User Interface Design
- Data Design
- System Architecture
- Managing Systems Implementation

Course Description (Continued..)

Contents:

- Analyzing the Business Case
  - A Framework for IT Systems Development
  - What Is a Business Case?
  - Information Systems Projects
  - Evaluation of Systems Requests
  - Overview of Feasibility
  - Preliminary Investigation Overview
Analyzing the Business Case

Contents:

- A Framework for IT Systems Development
  - During the systems planning phase, the IT team reviews a proposal to determine if it presents a strong business case.
  - The term business case refers to the reasons, or justification, for a proposal.
  - To analyze the business case for a specific proposal, the analyst must consider the company’s overall mission, objectives, and IT needs.

Analyzing the Business Case

Contents:

- A Framework for IT Systems Development
  - Strategic planning is the process of identifying long-term organizational goals, strategies, and resources.
  - A strategic plan looks beyond day-to-day activities and focuses on a horizon that is three, five, ten, or more years in the future.
  - A company requires information technology to support its strategic goals.
  - Because the firm’s IT group will be expected to deliver IT resources, IT managers must understand and participate in strategic planning.
Analyzing the Business Case

Contents:

- A Framework for IT Systems Development
  - Why should a systems analyst be interested in strategic planning?

- it can be with information technology:
  - One analyst might say, "I am using a CASE tool," while another might say, "I am helping the company succeed in a major new business venture."

- The difference is clear: Systems analysts should focus on the larger, strategic role of IT even as they carry out their day-to-day tasks.

Analyzing the Business Case

Contents:

- A Framework for IT Systems Development
  - Strategic planning starts with a mission statement that reflects the firm's vision, purpose, and values.

  - Mission statements usually focus on long-term challenges and goals, the importance of the firm's stakeholders, and a commitment to the firm's role as a corporate citizen.

  "AI PepsiCo, "Performance with Purpose" means delivering sustainable growth by investing in a healthier future for people and our planet”
Analyzing the Business Case

- Contents:
  - A Framework for IT Systems Development