MIS
(Management Information System)
(21-972)

Department of Industrial Engineering
Sharif University of Technology

Session #2

Course Description

- Instructor
  - Omid Fatahi Valilai, Ph.D. Industrial Engineering Department, Sharif University of Technology
  - Email: Fvalilai@sharif.edu, Tel: 021-6616-5706
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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:
- Introduction to Systems Analysis and Design
  - What Is Information Technology?
  - Information System Components
  - Business in the 21st Century
  - Modeling Business Operations
  - Business Information Systems
  - Systems Development Tools
  - Systems Development Methods
  - The Information Technology Department
  - The system analyst
System Analysis & Design

* Contents:
  * Introduction to Systems Analysis and Design
    * Companies use information as a weapon in the battle to
      * increase productivity,
      * deliver quality products and services,
      * maintain customer loyalty, and
      * make sound decisions.
    * In a global economy with intense competition, information technology can mean the difference between success and failure

System Analysis & Design

* Contents:
  * Introduction to Systems Analysis and Design
  * What is Information Technology?
    * Information technology (IT) refers to the combination of hardware, software, and services that people use to manage, communicate, and share information.
System Analysis & Design

Contents:

1. Introduction to Systems Analysis and Design
   Systems Analysis and Design
   - Systems analysis and design is a step-by-step process for developing high-quality information systems.
   - An information system combines technology, people, and data to provide support for business functions such as
     - Order processing,
     - Inventory control,
     - Human resources,
     - Accounting, and ....
   - Some information systems handle routine day to day tasks, while others can help managers make better decisions.

2. Information systems typically are developed by talented people, including a mix of
   - Managers,
   - Users,
   - Network administrators,
   - Web designers,
   - Programmers, and
   - Systems analysts.
System Analysis & Design

- **Contents:**
  - Introduction to Systems Analysis and Design
  - Systems Analyst
    - A systems analyst is a valued member of team who helps
      - Plan,
      - Develop, and
      - Maintain information systems.
    - Analysts must be excellent communicators with strong analytical and critical thinking skills.

  - Systems analysts transform business requirements into IT projects, they must be business-savvy as well as technically competent, and be equally comfortable with managers and programmers, who sometimes have different points of view.

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System Analysis & Design

- **Contents:**
  - Introduction to Systems Analysis and Design
  - Systems Analyst
    - An analyst might be asked to
      - Document business processes,
      - Test hardware and software packages,
      - Design input screens,
      - Train users, and
      - Plan e-commerce Web sites.

  - A systems analyst also manages IT projects, including tasks, resources, schedules, and costs.
  - To keep managers and users informed, the analyst conducts meetings, delivers presentations, and writes memos, reports, and documentation.
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