

# *MIS*

## *(Management Information System)*

### *(21-972)*

*Department of Industrial Engineering*  
*Sharif University of Technology*

*Session #2*



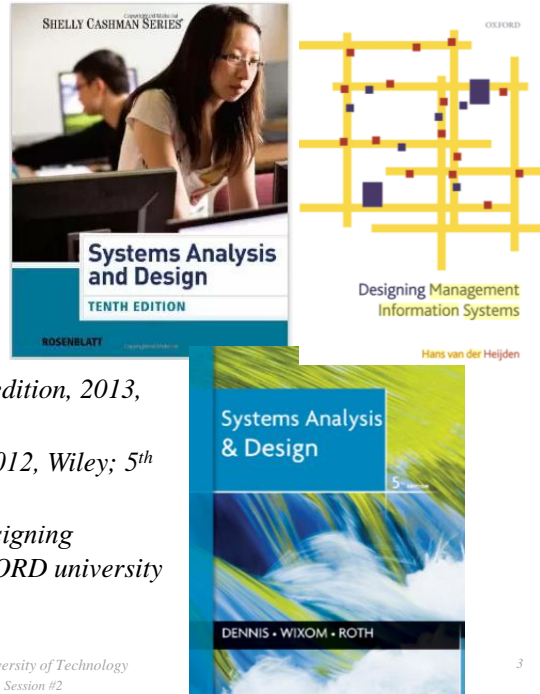
## *Course Description*

- *Instructor*
  - *Omid Fatahi Valilai, Ph.D. Industrial Engineering Department, Sharif University of Technology*
  - *Email: [Fvalilai@sharif.edu](mailto:Fvalilai@sharif.edu), Tel: 021-6616-5706*
  - *Website: <http://sharif.edu/~fvalilai>*
- *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, 7<sup>th</sup>, Azar 1394
- **Final session:**
  - Monday, 28<sup>th</sup>, Dey 1394
- **Reference:**
  - Rosenbalt, “System Analysis and Design”, 10<sup>th</sup> edition, 2013, Course Technology
  - Dennis, Lan; “Systems Analysis and Design”, 2012, Wiley; 5<sup>th</sup> edition
  - Johannes Govardus Maria van der Heijde; “Designing Management Information Systems”, 2009, OXFORD university press

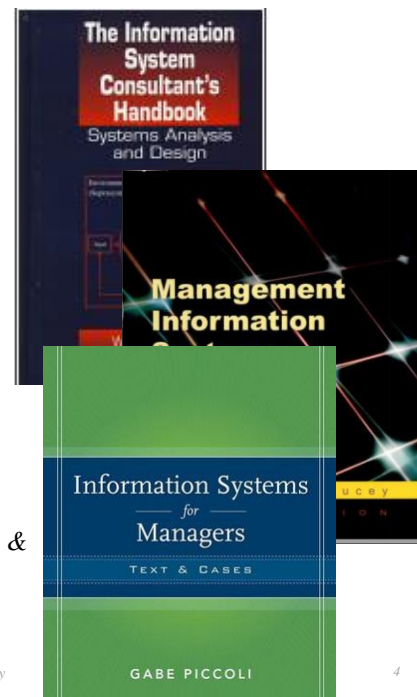


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## Course Description (Continued ...)

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



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## *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*

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## *Course Description (Continued..)*

- *Contents:*
  - *Introduction to Systems Analysis and Design*
    - *What Is Information Technology?*
    - *Information System Components*
    - *Business in the 21<sup>st</sup> Century*
    - *Modeling Business Operations*
    - *Business Information Systems*
    - *Systems Development Tools*
    - *Systems Development Methods*
    - *The Information Technology Department*
    - *The system analyst*

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## *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:*
  - *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.*

## System Analysis & Design

- *Contents:*
  - *Introduction to Systems Analysis and Design*
    - *Systems Analysis and Design*
      - *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.*

## 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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- *Contents:*
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      - *An analyst might be asked to*
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