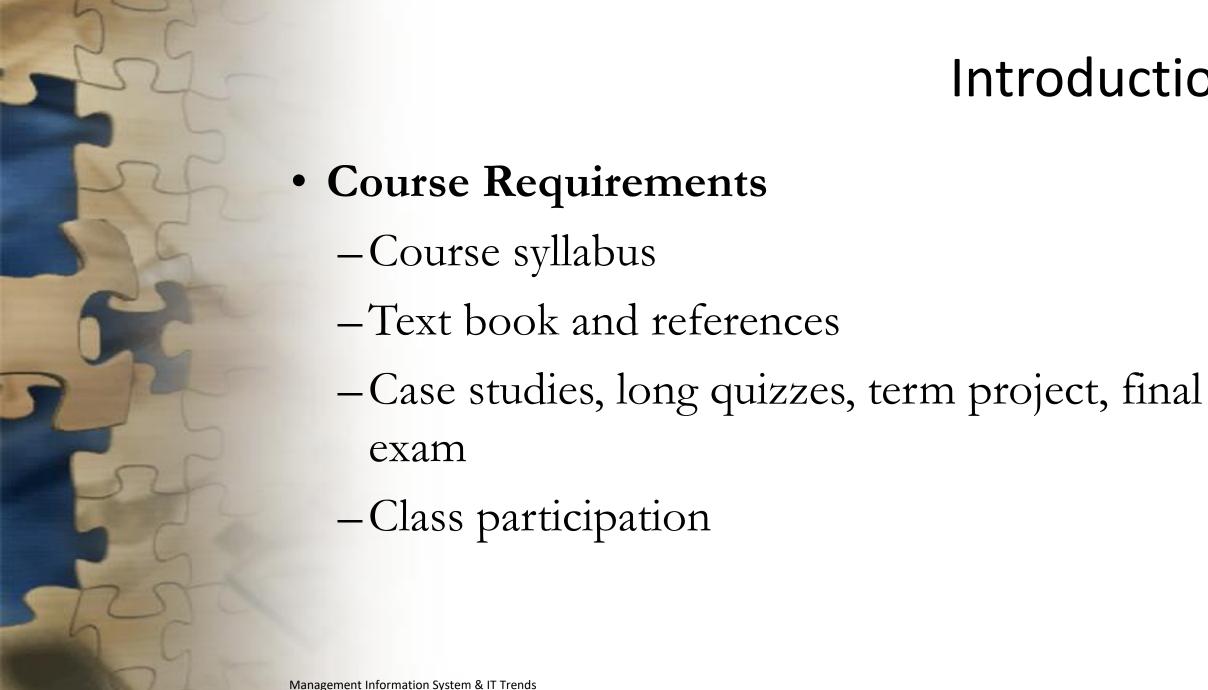


Objectives

- To be acquainted with the course outline, requirements and house rules
- Describe the components of Information Systems (IS) in business
- Explain why IS is necessary in business
- Describe the role of IS in business functions



Introduction Course Requirements -OneNote Class Notebook MNSYSIT MI141 • Check regularly; at least after each class -Academic Integrity • Cite references following APA standard • Avoid 'copy-paste' of materials

Introduction Grading System Class Participation 10%20% Long Quizzes - Case Studies 20%- Final Exam 25% 25%- Project **Total** 100% 70% Passing Mark Management Information System & IT Trends



Introduction

Course assessment

- -Complete the assigned readings
- -Long quizzes, term project, final exam
- -Attend classes and participate in discussions
- Complete all case analysis and submit reports on time
- -Contribute positively in assigned group work

House Rules -Restroom breaks −Days & venues: Tuesday (314) & Friday (816) -Time: 7:30am - 9:30am

Introduction

-Punctuality and attendance

House Rules -English zone no code-switching -Mobile phones, tablets, computers, etc. not allowed during class, unless specified -Seating arrangement



- House Rules Proper use of resources & facilities
 - -Use computers for purposes relating to study and/or research only.
 - -Keep your area neat at all times.
 - -Handle equipment with care.
 - -Avoid disconnecting cables, peripherals, etc.



Introduction

- House Rules Proper use of resources & facilities
 - -Log-out of websites or accounts opened.
 - -Shut down computers before leaving.
 - Do not change the system settings of computers.
 - -Do not download and install software without the permission of ITRO.



Expectations?



Purpose of the course is to make students prudent consumers of information and IT services

Reference:

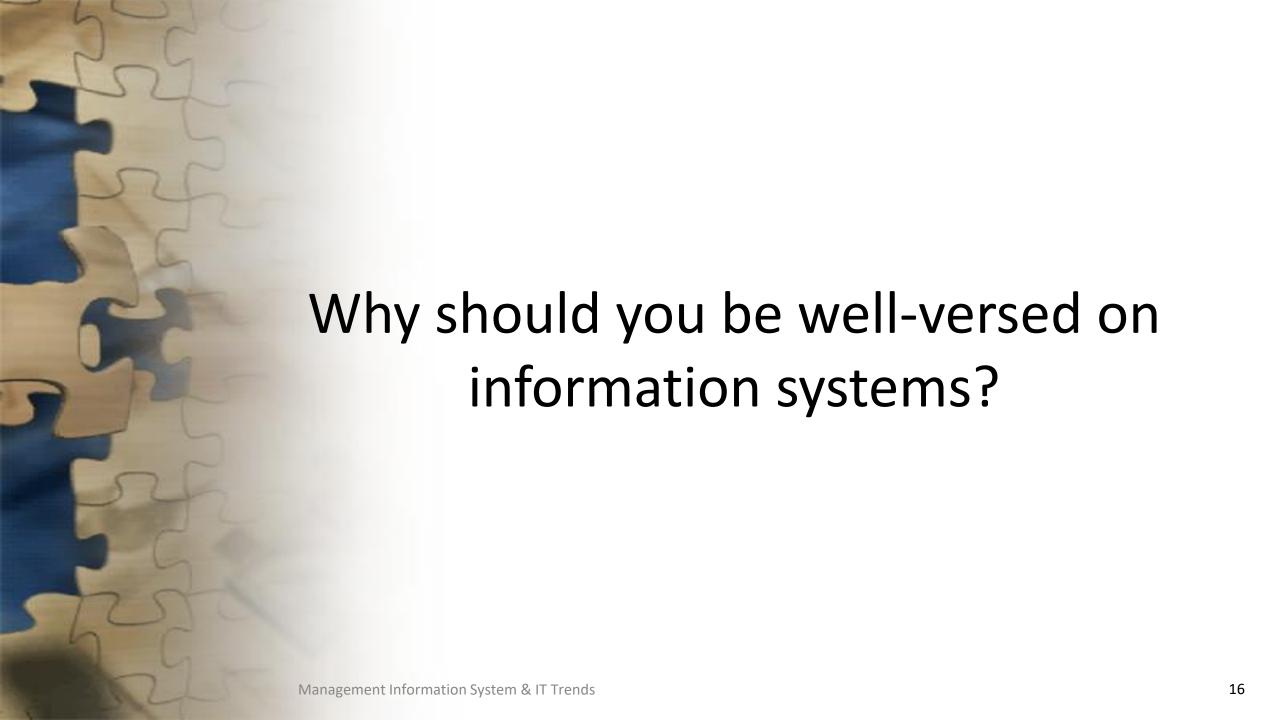
Oz, E. (2011). *Principles of Management Information Systems*. *Philippine Edition*. Cengage Learning Asia Pte.



- Businesses use information systems to
 - -make sound decisions
 - -solve problems
- Problem any undesirable situation
- *Decision* arises when more than one solution to a problem exists

Purpose of Information Systems

- Problem solving and decision making require INFORMATION
- Information systems (IS)
 - -aid in problem solving and decision making
 - support daily operations





Data vs Information

- Data a given or fact (number, statement, picture)
- *Information* facts or conclusions that have meaning or context
- *Process* manipulation of data with the goal of producing information or additional data

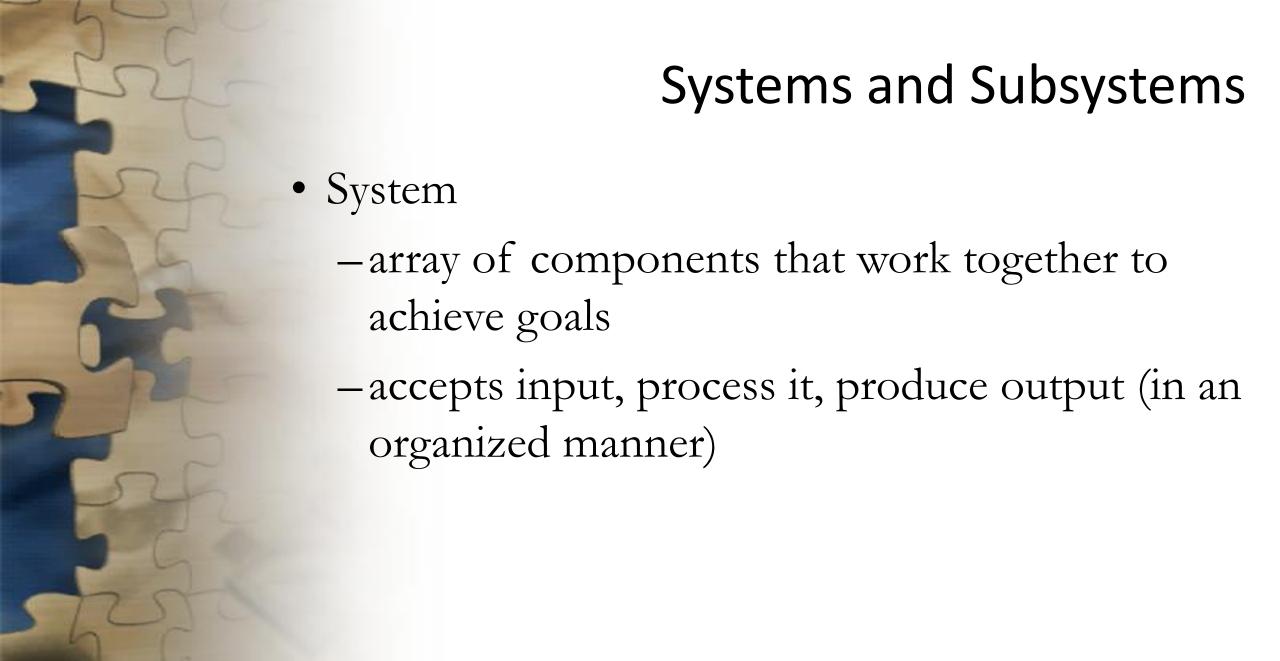
Information Input Output Process Management Information System & IT Trends 18

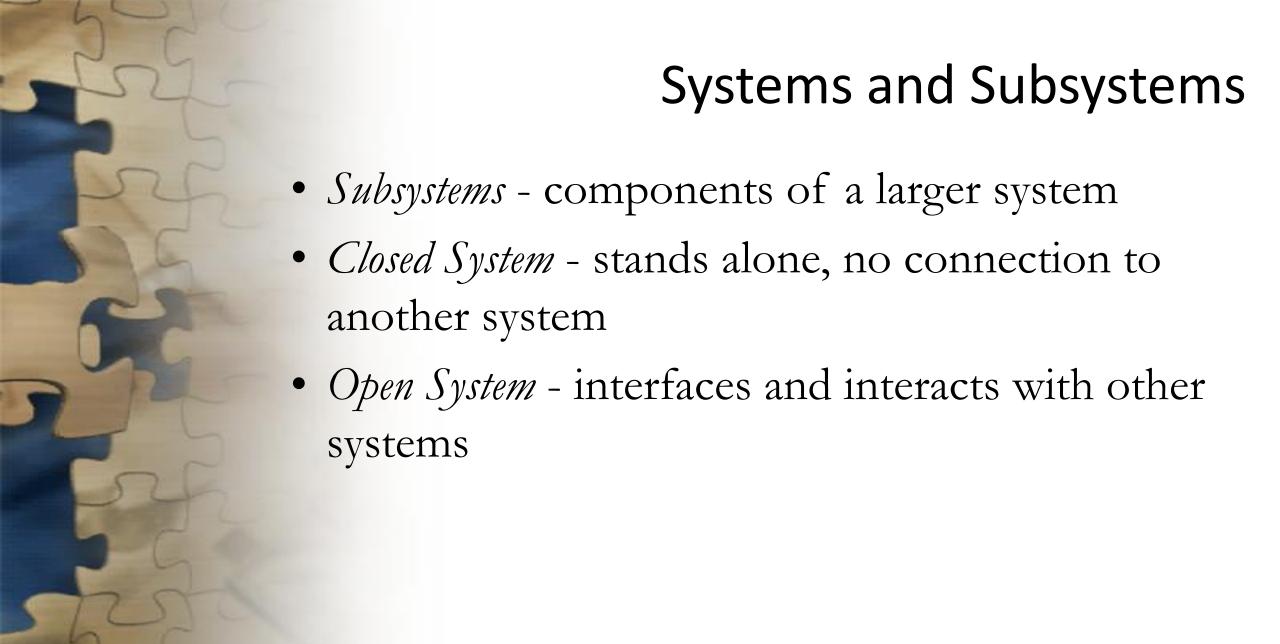
-Relevant -Complete -Accurate -Current

Information

• Characteristics of useful information

-Obtained in a cost-effective manner





Information Systems Consists of components that work together to process data and produce information • Automate information exchange between subsystems



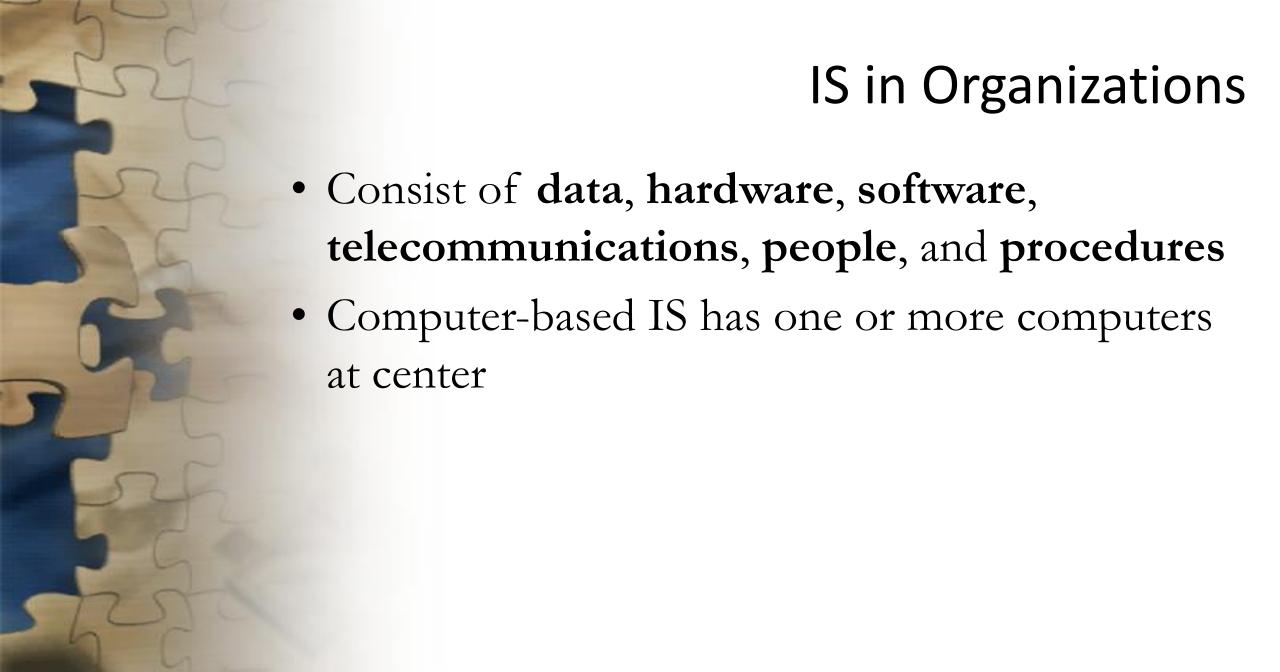
- Systems thinking thinking of an organization in terms of its subsystems
 - -creates a framework for problem solving and decision making
 - -helps managers focus on overall goals

Information & Managers

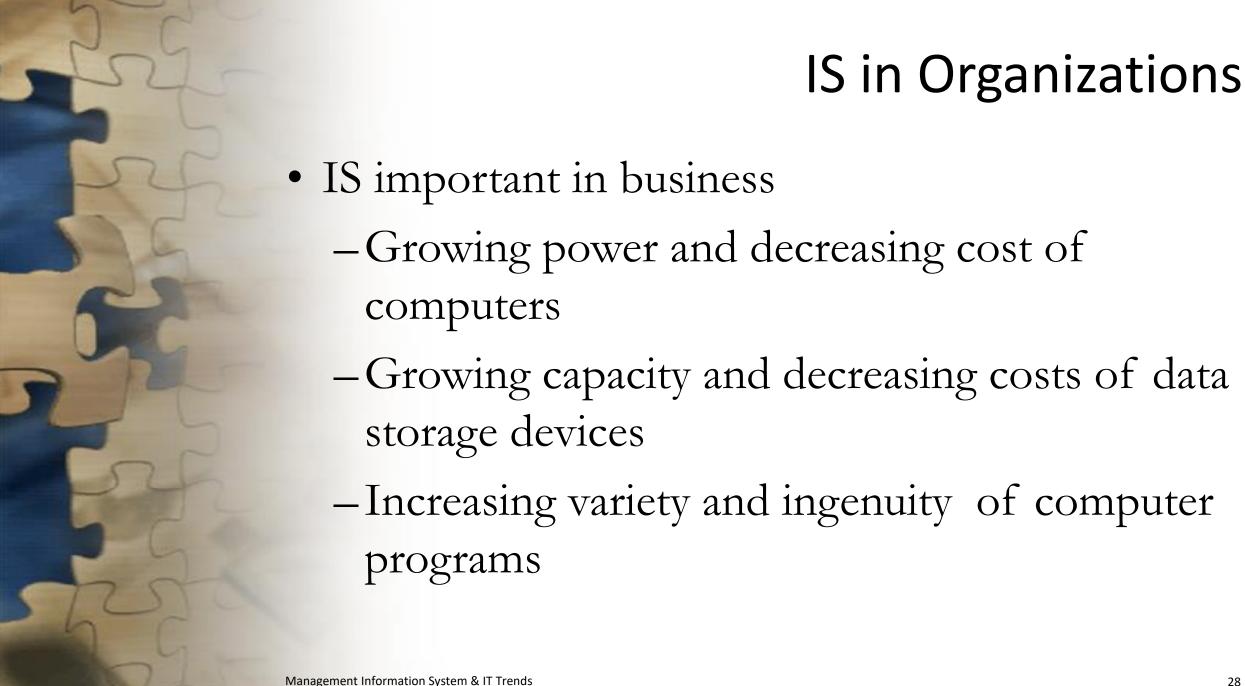
- *Information map* description of data and information flow within an organization
- *Information technology* technologies that facilitate construction and maintenance of information systems

Human-Computer Synergy

- Humans can think, make decisions, accumulate expertise
- Computers can perform programmed operations rapidly and accurately



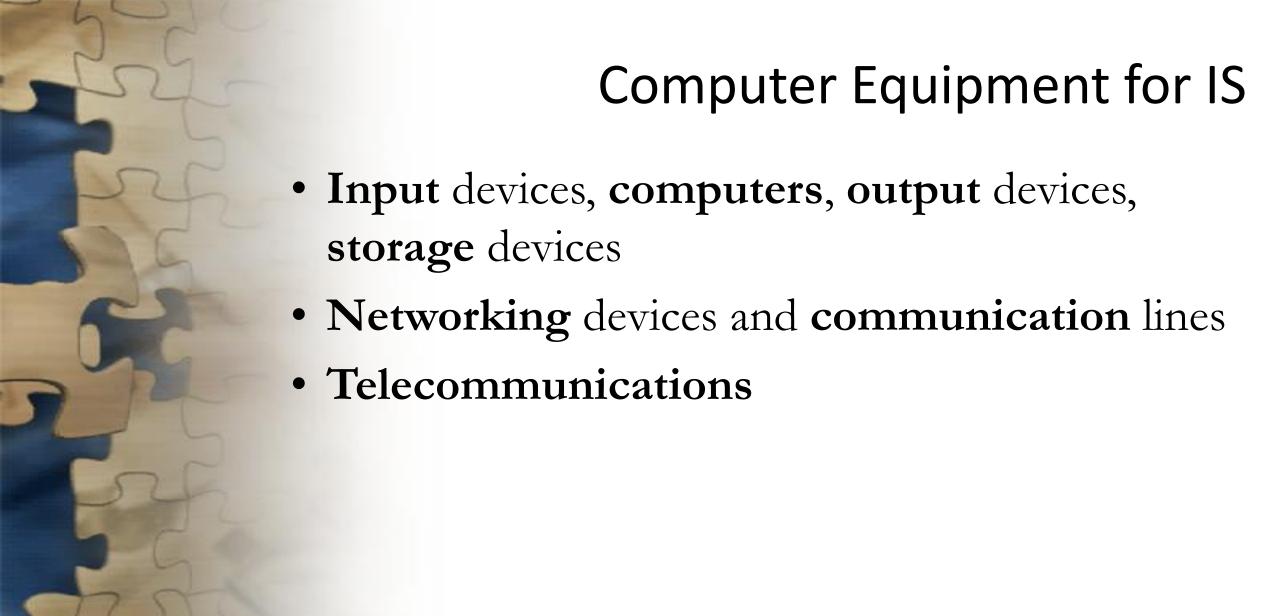




IS in Organizations • IS important in business -Available, reliable, affordable, and fast communications links to the Internet -Growth of the Internet -Increasing computer literacy of the workforce

• Input • Data Processing Output • Storage Management Information System & IT Trends

Four Stages of Processing



Management Information Systems

- System that supports
 - -planning
 - -control
 - -making decisions

Types of IS

- Transaction processing system system that records data collected at point where organization transacts business with other parties
- Supply chain management system also known as enterprise resource planning system

Types of IS • Customer relationship management system system for managing relations with customers • Business intelligence system - system that glean relationships and trends from raw data to help organization compete

Types of IS

- Decision support systems systems that support decision making
- Expert systems systems that support knowledge-intensive decision making
- Geographic information system system that ties data to physical locations





On February 14, 2011, IBM Watson changed history, introducing a system that rivaled a human's ability to answer questions posed in natural language with

speed, accuracy, and confidence.

- Watson Wins!
- Largest Jeopardy! in 5 years
 - 34.5M Jeopardy! Viewers
 - 1.3B+ Impressions
- Over 10,000 Media Stories
- 11,000 attend watch events
- 2.5M+ Videos Views (top 10 only) You Tibe
- 12,582 Twitter
- 25,763 Facebook Fans
- Most recently: Emmy Award for Watson show of Jeopardy!

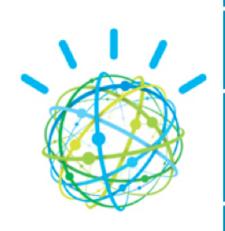


February 2011 Watson beats Jeopardy Champions Ken Jennings and Brad Rutter





What Watson does:



Interprets and understands language, in context

Understands ambiguous and imprecise questions using sobhisticated natural language algorithms

Analyzes large volumes of data

Can handle large amounts of unstructured data

Generates and evaluates hypotheses and quantifies confidence in answers

Identifies many answers to questions with evidence to "explain" rationale for answers

Adapts and learns to improve results over time

Learns from additional evidence, additional questions and mistakes to improve accuracy over time

*Reference: IBM Philippines, 2012

Accounting • Finance Marketing • Human resource management • E-commerce Management Information System & IT Trends



- Network administrator, system administrator, system analyst, software engineer, data communications analyst, database administrator, Help Desk technician, Webmaster
- Chief Security Officer, Chief Information
 Officer, Chief Technology Officer



• Phishing and Identity Theft