# LECTURE 5

Information System
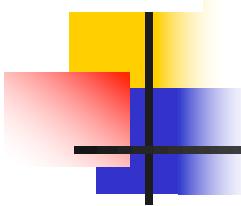
1. Parts of an information system
2. Computer-based information systems
3. Systems analysis and design
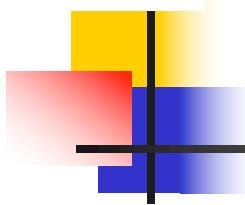
1. Parts of an information system

- People, end users
- Procedures
- Hardware
- Software
- Data

2. Computer-based information systems
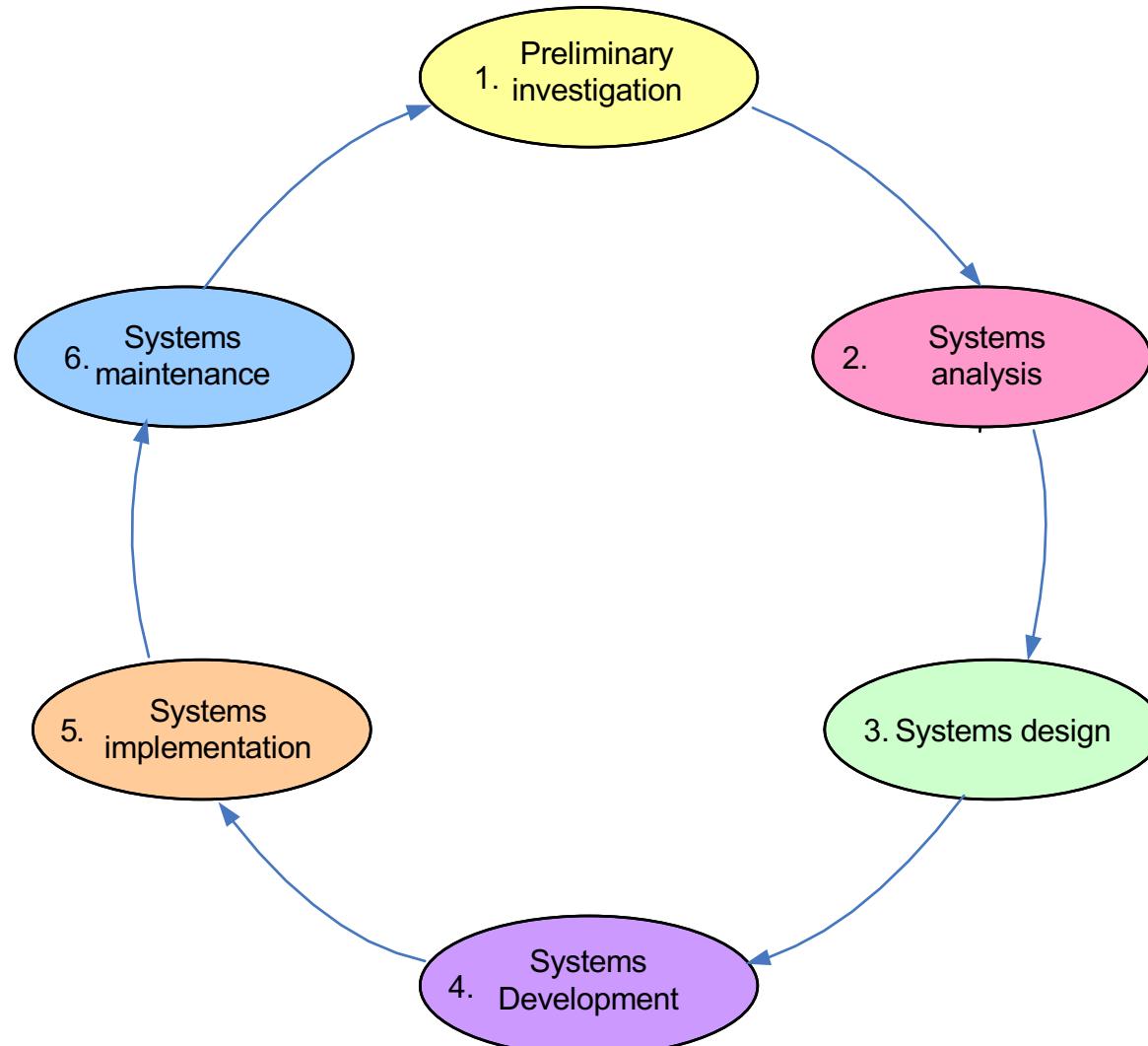
- Transaction processing system
- Management information system
- Decision support system
- Executive support system
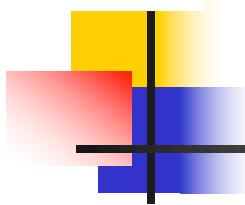
3. Systems analysis and design

- Phase 1: Preliminary investigation
- Phase 2: Analysis
- Phase 3: Design
- Phase 4: Development
- Phase 5: Implementation
- Phase 6: Maintenance
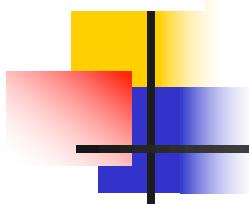
Systems Life Cycle
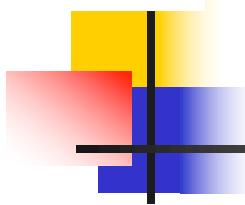
Phase 1: Preliminary investigation

- Defining the problem
- Suggesting alternative systems
- Preparing a short report

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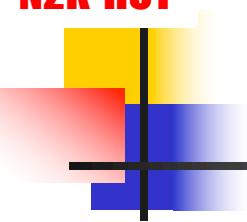
- Gathering data
- Analyzing the data
- Documenting systems analysis

Phase 3: Design

- Designing alternative systems
- Selecting the best system
- Writing the systems design report
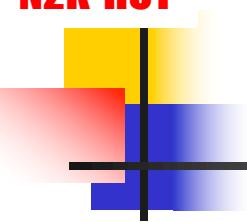
Phase 4: Development

- Acquiring software
- Acquiring hardware
- Testing the new system

Phase 5: Implementation

- Types of conversion
- Training

Phase 6: Maintenance

- Systems audit

- Periodic evaluation