

Information Systems Analysis in Business and Enterprise

Day 1: Introduction to Information Systems Analysis

Overview of Information Systems

- Definition and components of information systems
- Role of information systems in business operations
- Evolution and trends

Fundamentals of Systems Analysis

- Definition and objectives
- Importance in business and enterprise

System Analyst Roles and Responsibilities

- Key skills and competencies required
- Challenges faced by analysts

Day 2: Requirements Gathering and Analysis

Understanding Business Requirements

- Methods and techniques for requirements elicitation
- Interviews, surveys, observation, and document analysis

Analyzing Requirements

- Functional vs. non-functional requirements
- Requirement prioritization and validation

Practical Exercise

- Workshop: Conducting effective requirements gathering

Day 3: System Design and Modeling

Systems Modeling Techniques

- Data flow diagrams (DFD)
- Unified Modeling Language (UML)
- Entity-Relationship Diagrams (ERD)

Design Considerations

- Database design
- User interface and user experience design

Practical Exercise

- Creating system models and prototypes

Day 4: System Evaluation and Implementation Planning

Evaluating Information Systems

- Cost-benefit analysis
- Feasibility studies (technical, economic, operational)

Implementation Planning

- Implementation strategies
- Change management considerations

Risk Management

- Identifying and mitigating implementation risks

Practical Exercise

- Developing an implementation plan

Day 5: Information Systems Maintenance and Continuous Improvement

System Maintenance

- Importance and types of maintenance
- Documentation and knowledge transfer

Continuous Improvement

- Performance monitoring and optimization
- User feedback and enhancement

Emerging Trends in Information Systems

- AI-driven systems analysis
- Cloud computing and analytics
- Security considerations in systems analysis

Final Review and Discussion

- Recap and open discussion