



Strategic Management of Information Systems



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Introduction:

A management information system MIS is a computer-based information system that produces routine reports and often allows online access to current and historical information needed by managers mainly at the middle and first-line levels.

Researchers treat MIS as a broad concept including all of the organization systems that support the functional areas of the organization.

Targeted Groups:

- Managers who wish to participate in information systems IS decisions.
- Current and future managers who wish to be introduced to the broader implications of the impact of IS.
- Contemporary managers who need to know about their organization's capabilities and uses of information

Course Objectives:

At the end of this course the participants will be able to:

- Understand the Information Systems Strategy Triangle framework for the alignment of IS and the business.
- Understand the four components of IS architecture: hardware, software, networks, and data.
- Learn about the business of IT.
- Explore the IS organization, funding models, portfolios, and monitoring options.
- Learn about the governance of IS resources.
- Learn about business intelligence, knowledge management, and analytics
- Understand how the companies manage knowledge using business analytics

Targeted Competencies:

- Management skills
- Strategic thinking
- Implementing the visions
- IT portfolio management
- Business intelligence
- Big data

Course Content:

Unit 1: Linking Systems to Strategy and the Organisation:

- Overview of business strategy frameworks
- Organizational strategies
- Social business lens: building a social business strategy
- Overview of information systems strategy

Unit 2: Information Systems Strategy: Architecture and Infrastructure:

- From vision to implementation
- Architectural principles
- Enterprise architecture
- Virtualization and cloud computing
- Social business lens

Unit 3: Cost Recovery of Information Systems:

- Organizing to respond to business demand: a maturity model
- What a manager can expect from the IT organization
- Chief Information Officer
- Social business lens: community management
- Building a business case
- IT portfolio management
- Valuing IT investments
- Monitoring IT investments

Unit 4: Governance of the Information Systems Organisation:

- IT governance
- IT governance and security
- The consumerization of technology
- Decision-making mechanisms
- Governance frameworks for control decisions

Unit 5: Business Analytics and Knowledge Management:

- Knowledge management processes
- Business intelligence
- Components of business analytics
- Big data
- Social analytics
- Social graphs