**Course Unit Title** | Management of Information Systems (MIS)
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**Course Unit Code** | BI400
**Type of Unit** | Core
**Level of Course Unit** | First cycle
**Year of Study** | First
**Semester** | Second
**Number of ECTS Credits** | 6.0 ECTS
**Class Contact Hours** | 28
**Minimum Learning Effort (In Hours)** | 150

**Course Unit Objectives**

In this course, students will be informed about the fundamentals of information systems and how to manage them effectively. The general nature of computer hardware, software, systems, database management, as well as underlying security and performance implications will be discussed. Students will gain an understanding of the managerial issues in the development and operation of information systems.

The main topics include: information systems planning, management of systems development and maintenance, implementation management, end-user computing, datacentre and warehouse operations, information systems control and evaluation. Case studies will be used to illustrate the issues and solutions.

At the end the student will be introduced to concept of Business Intelligence and data-driven decision and how it helps business and organisations to improve their operations and business targets.

**Learning Outcomes**

The students completing the course should be able to:

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<tr>
<th>CILO</th>
<th>Description</th>
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<tr>
<td>CILO 1</td>
<td>Understand fundamental and underlying notions associated with Information Systems (IS) as well as their historic evolution.</td>
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<td>CILO 2</td>
<td>Understand fundamental concepts in Information Systems such as Data Warehousing, Customer Relationship Management (CRM) and Enterprise Resource Planning (ERP).</td>
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<td>CILO 3</td>
<td>Demonstrate understanding of the ERP and Data Warehouse implementation process and defining its critical success factors.</td>
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<td>CILO 4</td>
<td>Understand the ethical and security issues in IS and new technologies such as Cloud Computing.</td>
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<td>CILO 5</td>
<td>Understand the value of data and data-driven decision making used in the context of Business Intelligence and Data Analytics.</td>
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<td>CILO 6</td>
<td>Effectively visualise data using ready software</td>
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**Name of Lecturer(s)** | Prof. Sheizaf Rafaeli
**Mode of delivery** | Face to Face
**Prerequisites or corequisites** | None

**Course Content**

1. Introduction to Information Systems and effective CILO
2. Data Warehousing: Implementations and Challenges

3. ERP and CRM solutions, implementations and critical success factors.

4. Ethics and Security of Information Systems and new technologies such as Big Data, Blockchain, Social Media

5. Introduction to Business Intelligence; data, process, knowledge, data mining, data analytics, the role of Chief Information Officer and Chief Data Officers

6. Visualization techniques using ready software (such as Microsoft Power BI, QlikView)

Recommended or required reading

Required Reading


Recommended Reading

Research Articles


| Planned learning activities and teaching methods | lectures, group work, lab work, role playing, project-based learning, homework |
| Assessment methods and criteria | Class participation: 20%  In-class examination: 80% |
| Language of Instruction | English |
| Work Placement(s) | Not applicable |