

**DEREE COLLEGE SYLLABUS FOR: CS 1070 INTRODUCTION TO INFORMATION SYSTEMS**

(Updated Fall 2021)

**UK LEVEL: 4**  
**UK CREDITS: 15**  
**US CREDITS: 3/1/3**

**CATALOG DESCRIPTION:**

Principles of information systems. Social and ethical issues in using information. Present and future trends in information technology. Manage and communicate information. Collaborate and share digital content. Current information technologies are used to solve typical problems.

**RATIONALE:**

This course provides fundamental knowledge in information systems. Students are introduced to topics dealing with hardware, software, networking, interactive media, telecommunication, personal technologies, and emerging devices and technologies. At the same time, the social and ethical impact of the use of technology and systems is emphasized. This course also prepares students for different careers, equipping them with digital and information literacy skills.

**LEARNING OUTCOMES:**

- As a result of taking this course, the student should be able to:
1. Identify information systems types, components and functions
  2. Categorize and discuss information technologies and their application in different disciplines under a global perspective
  3. Use current technologies to address real-life problems.

**METHOD OF TEACHING AND LEARNING:**

- In congruence with the teaching and learning strategy of the college, the following tools are used:
- Lectures and class discussions, problem-solving sessions and review of cases taken from the real world and applicable to specific theoretical concepts.
  - Hands-on flipped classroom (Laboratory) practical learning sessions to build the digital literacy skills
  - Office hours held by the instructor to provide further assistance to students.
  - Use of the Blackboard Learning platform (communication, posting of lecture notes / assignments' instructions / timely announcements, online submission of assignments, etc).
  - Use of eLearning tools such as simulation platforms, clickers, video tutorials, etc.

**ASSESSMENT:**

**Summative:**

First Assessment - Coursework	<b>40%</b>	Implementation of data analysis and presentation graphics
Final Assessment - Written Examination (in class, 2 hours)	<b>60%</b>	Answers to questions with choice

**Formative:**

Short writing assignments	<b>0%</b>
Take-home lab assignments	<b>0%</b>

The formative assessment(s) aim to prepare students for the summative ones.

The First Assessment tests Learning Outcome 3.  
 The Final Assessment tests Learning Outcomes 1 and 2.

	<p>Students are required to resit failed assessments in this module.</p> <p>(Guidelines and assessment rubrics are distributed on the first day of classes along with the course outline.)</p>
<b>INDICATIVE READING:</b>	<p><b>REQUIRED READING:</b></p> <p>Coulthard, G. Computing Now, McGraw Hill, latest edition – eTextbook</p> <p><b>RECOMMENDED READING:</b></p> <p>Shelly B. Gary, Vermaat E. Misty. Discovering Computers: Fundamentals. Shelly Cashman Series, Course Technology, latest edition.</p> <p>O’ Leary. Computing Essentials, McGrawHill, latest edition.</p> <p>Journal of Information, Information Technology &amp; Organizations</p> <p>Information Systems Journal, Information Today Journal</p> <p>Computers &amp; the Humanities Academic Journal</p> <p>Interacting with Computers Academic Journal</p> <p>Journal of Humanities &amp; Arts Computing: A Journal of Digital Humanities</p>
<b>INDICATIVE MATERIAL:</b> (e.g. audiovisual, digital material, etc.)	<p><b>REQUIRED MATERIAL:</b> N/A</p> <p><b>RECOMMENDED MATERIAL:</b> N/A</p>
<b>COMMUNICATION REQUIREMENTS:</b>	Use of appropriate academic conventions as applicable in oral and written communications.
<b>SOFTWARE REQUIREMENTS:</b>	<ul style="list-style-type: none"> <li>• MS-Office 365 applications</li> <li>• A Web Authoring program</li> <li>• SIMnet online service</li> </ul>
<b>WWW RESOURCES:</b>	<p><a href="http://www.informationweek.com/">http://www.informationweek.com/</a></p> <p><a href="http://www.microsoft.com">http://www.microsoft.com</a></p> <p><a href="http://www.apple.com">http://www.apple.com</a></p> <p><a href="http://www.w3.org">http://www.w3.org</a></p> <p><a href="http://www.computerworld.com">http://www.computerworld.com</a></p> <p><a href="http://mashable.com/category/tech/">http://mashable.com/category/tech/</a></p> <p><a href="http://social-networking-websites-review.toptenreviews.com/">http://social-networking-websites-review.toptenreviews.com/</a></p> <p><a href="http://www.sciencedaily.com/news/computers_math/mobile_computing/">http://www.sciencedaily.com/news/computers_math/mobile_computing/</a></p> <p><a href="http://www.computing.co.uk/">http://www.computing.co.uk/</a></p> <p><a href="https://www.android.com/">https://www.android.com/</a></p>
<b>INDICATIVE CONTENT:</b>	<p>I. Theoretical and Descriptive Part:</p> <p>Thematic unit 1: Essentials</p> <ul style="list-style-type: none"> <li>• Information processing cycle, data vs. information</li> <li>• Computer security and online privacy</li> <li>• Social issues in using information, computing ethics</li> </ul> <p>Thematic unit 2: Technologies</p> <ul style="list-style-type: none"> <li>• Types of computers</li> <li>• Looking inside – computer components</li> <li>• System and application software</li> <li>• The Internet and the web, cloud computing</li> <li>• Computer networks</li> </ul>

Thematic unit 3: Applications

- Computers in society
- Meeting your computing needs
- Programming logic

Thematic unit 4: Users

- The user's role
- User interfaces, interaction and experience

Thematic unit 5: Future

- The future of computing
- Putting it all together

II. Laboratory practical sessions:

1. World Wide Web

- a. Find, capture, evaluate and manage information
- b. Use of social networks and privacy issues
- c. Collaboration and cloud storage, blogs & wikis
- d. Blackboard CMS

2. Information presentation

3. Spreadsheet management

4. Web publishing (blogging, web application services)

5. Word processing