



UK

SYLLABUS 2026-2027

Fundamentals of Information Systems

MODULE SPECIFICATION

Module Code	2627_SCM_1_EN_015
Campus	Oxford
Department(s)	Supply Chain Management and Digital Management
Level / Semester	Undergraduate Year 2 (U2); Equivalent to FHEQ level 5 Semester 04
Language of Instruction	English
Teaching Method	☒ In-person (face-to-face) ☐ Distance learning (live online) ☐ e-Learning (asynchronous) ☐ Hybrid: _____
Pre-requisite(s)?	None
ECTS <i>Reminder: 1 ECTS = between 20 and 30hr- student workload</i>	3
Equivalent FHEQ credits	6
Study Hours	75 hours which comprise of 21 directed learning and 54 independent learning/assessment hours

MODULE DESCRIPTION

Module Aims	This module introduces the fundamental concepts, technologies, and applications of information systems in organisations. It examines how information systems support business processes, organisational activities, and decision-making, including the use of IT infrastructure, databases, business intelligence, the internet, and e-commerce. The module also considers information security, ethics, and the
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	responsible use of information systems.
Teaching Arrangement	Classes will consist of lectures given by the lecturer, case studies and business examples, follow-up discussions, and in-class student presentations. Students are expected to be proactive and cooperative through their involvement in various individuals and group class assignments. Students are also expected to contribute to class discussion and debate regarding relevant textbook reading chapters and any related materials (e.g. case studies, business examples).
Learning Outcomes	By the end of this module, students should be able to: 1. Explain and analyse key concepts, components, and technologies underpinning information systems 2. Apply information systems concepts to analyse their use in organisational activities, business processes, and decision-making 3. Analyse and evaluate issues relating to information security, ethics, and the responsible use of information systems
Competency Goals <i>(Knowledge, expertise and interpersonal skills)</i>	PGE_U_CG04 - Students will be data-driven decision-makers with digital and analytical insight
Alignment with Programme Learning Goals	PGE_U_CG04_LO02 - To contribute to digital and AI solution design by integrating cybersecurity and data management principles

SESSION TOPICS / MODULE SCHEDULE

(Please note, a session/sequence may be more than one scheduled class)

<u>Session 1: Information Systems in Global Business Today</u> Content: ● Introduction to IS ● Management, organisation, and technology components of IS ● IS as transformation leverage of contemporary business References: ● Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) <i>Management information systems: Managing the digital firm</i>. 18th edn. Harlow, United Kingdom: Pearson. Assignments: ● Read: Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) <i>Management information systems: Managing the digital firm</i>. 18th edn. Harlow, United Kingdom: Pearson. (Chapter 1)
<u>Session 2: Global E-Business and Collaboration</u> Content: ● Business process ● Collaboration and social business References:

Last reviewed: 23/09/2026

- Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) *Management information systems: Managing the digital firm*. 18th edn. Harlow, United Kingdom: Pearson.

Assignments:

- Read: Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) *Management information systems: Managing the digital firm*. 18th edn. Harlow, United Kingdom: Pearson. (Chapter 2)

Session 3: Information Systems, Organisations, and Strategy

Content:

- Features of an organisation
- Porter's competitive forces
- IS is an organisation

References:

- Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) *Management information systems: Managing the digital firm*. 18th edn. Harlow, United Kingdom: Pearson.

Assignments:

- Read: Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) *Management information systems: Managing the digital firm*. 18th edn. Harlow, United Kingdom: Pearson. (Chapter 3)

Session 4: Ethical and Social Issues in IS

Content:

- Ethical, social, and political issues related to IS
- Protection of privacy and intellectual property

References:

- Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) *Management information systems: Managing the digital firm*. 18th edn. Harlow, United Kingdom: Pearson.

Assignments:

- Read: Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) *Management information systems: Managing the digital firm*. 18th edn. Harlow, United Kingdom: Pearson. (Chapter 4)

Session 5: IT Infrastructure and Emerging Technologies

Content:

- Components of IT infrastructure
- Trends with computer hardware components
- New emerging technologies

References:

- Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) *Management information systems: Managing the digital firm*. 18th edn. Harlow, United Kingdom: Pearson.

Assignments:

- Read: Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) *Management information systems: Managing the digital firm*. 18th edn. Harlow, United Kingdom: Pearson. (Chapter 5)

Session 6: Foundations of Business Intelligence – Databases and Information Management

Content:

- Database management systems (DBMS)
- Principal tools and methods for database management

References:

- Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) *Management information systems:*

<i>Manging the digital firm</i>. 18th edn. Harlow, United Kingdom: Pearson. Assignments: Read: Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) <i>Management information systems: Manging the digital firm</i>. 18th edn. Harlow, United Kingdom: Pearson. (Chapter 6)
<u>Session 7: Telecommunications, the Internet, and Wireless Technology</u> Content: - Key telecommunication technologies - Different types of networks - Internet and wireless networks References: - Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) <i>Management information systems: Manging the digital firm</i>. 18th edn. Harlow, United Kingdom: Pearson. Assignments: - Read: Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) <i>Management information systems: Manging the digital firm</i>. 18th edn. Harlow, United Kingdom: Pearson. (Chapter 7)

KEY TEXTS

Laudon, K. C., Laudon, J. P. and Traver, C.G. (2025) <i>Management information systems: Manging the digital firm</i>. 18th edn. Harlow, United Kingdom: Pearson.
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SUPPLEMENTARY TEXTS

Laudon, K. C. and Laudon, J. P. (2024) <i>Essentials of MIS</i>. 15th edn. Pearson.

MODES OF ASSESSMENT

Continuous Assessment (40%)	Case study	20%
	Capstone	20%
Final Exam (60%)	Closed-book written exam	

MODULE DESIGN TEAM

- Author: *Sarah Bouraga*
- Reviewer: *Pratish Sharma*
- External Reviewer: *Marios Tsatsos*

Last reviewed: 23/09/2026