

# WM9PQ-15 Strategic Information Systems Management

**24/25**

**Department**

WMG

**Level**

Taught Postgraduate Level

**Module leader**

Awinder Kaur

**Credit value**

15

**Module duration**

4 weeks

**Assessment**

100% coursework

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

The Strategic Information Systems Management module is designed to provide students with advanced understanding of how information systems play a pivotal role in shaping and supporting data-driven decision-making and efficient operations within organizations. This module combines strategic thinking with practical insights, preparing students to lead in a digital and data-centric business environment.

### Module aims

This module equips students with a deep understanding of how information systems can be strategically managed and leveraged to enhance data-driven decision making and digital operations in contemporary organizations. It emphasizes the alignment of IT with business objectives, data-driven decision-making, and effective leadership in the context of digital transformation.

### Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be

covered. Actual sessions held may differ.

#### a) Introduction to Strategic Information Systems Management

- Strategic Significance of Information Systems
- Aligning Information Systems with Business Strategy
- Ethical Considerations in Strategic IS Management

#### b) Data-Driven Decision-Making

- Data Analytics for Decision Support
- Business Intelligence Tools and Techniques
- Data Visualization for Strategic Insights

#### c) Digital Transformation Leadership

- Leading Digital Initiatives
- Change Management in Digital Transformation
- Innovation and Entrepreneurship in a Digital World

#### d) IT Governance and Data Security

- IT Governance Frameworks (e.g., COBIT, ITIL)
- Data Governance and Privacy Regulations (e.g., GDPR)
- Cybersecurity in Data-Driven Operations

#### e) Operational Excellence through Information Systems

- Lean Principles and Process Optimization
- Agile Operations and Continuous Improvement
- Supply Chain Optimization in the Digital Age

## Learning outcomes

By the end of the module, students should be able to:

1. Analyse organizational objectives and develop strategies to align information systems with business goals, with a particular focus on data-driven decision making and digital operations.
2. Apply advanced data analytics and business intelligence techniques to support decision-making processes, emphasizing the strategic value of data.
3. Investigate the principles of digital transformation and develop leadership skills required to drive digital initiatives within organizations.
4. Evaluate IT governance frameworks and data security protocols to ensure the ethical and secure management of data in digital operations.
5. Develop strategies to enhance operational efficiency, agility, and innovation through the strategic use of information systems and data analytics.
6. Collaboratively develop and present a comprehensive Information Systems Strategic Plan for an organization, demonstrating the ability to strategically align information systems with business goals.

## Interdisciplinary

A mixture of technology/computing topics and business topics

## International

Topics are of high international demand

### **Subject specific skills**

Strategic Alignment Skills, Data-Driven Decision-Making Skills, Digital Transformation Leadership Skills, IT Governance and Data Security Skills

### **Transferable skills**

Analytical and Problem-Solving Skills, Communication and Presentation Skills. Teamwork and Collaboration Skills, Leadership and Change Management Skills, IT Governance and Compliance Awareness Skills

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## **Study**

### **Study time**

<b>Type</b>	<b>Required</b>
Lectures	20 sessions of 1 hour (13%)
Seminars	10 sessions of 1 hour (7%)
Online learning (independent)	60 sessions of 1 hour (40%)
Assessment	60 hours (40%)
Total	150 hours

### **Private study description**

No private study requirements defined for this module.

### **Costs**

No further costs have been identified for this module.

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## **Assessment**

You must pass all assessment components to pass the module.

### **Assessment group A**

	<b>Weighting</b>	<b>Study time</b>
Information Systems Strategic Plan	20%	10 hours
In teams, students will develop a strategic plan for an organisation focusing on how information		

## **Weighting**

## **Study time**

systems can enhance data-driven decision-making and digital operations. This project will involve strategic alignment, data analytics, and IT governance considerations.

Assignment

80%

50 hours

A business-style report with the application of strategic information systems concepts to a real-world scenario particularly in the context of data science and digital operations.

## **Feedback on assessment**

A verbal feedback will be provided immediately after the presentations are made.

Written assignment feedback Marks returned for written assignment. Written feedback will be provided for the written post module assignment using the WMG feedback template. This feedback will be focussed upon the strengths and weaknesses of the work with regard to the module learning outcomes and the post-module assignment marking guidelines. Suggestions for improvement will be provided.

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## **Availability**

## **Courses**

This module is Optional for:

- Year 1 of TWMS-H1S4 Postgraduate Taught e-Business Management (Full-time)