Prifysgol **Wrecsam**
Wrexham University

Module specification

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Module Code	COM476
Module Title	Information Security and Governance
Level	4
Credit value	20
Faculty	FACE
HECoS Code	100376
Cost Code	GACP
Pre-requisite module	N/A

Programmes in which module to be offered

Programme title	Core/Optional/Standalone
BSc (Hons) Computer Science	Core
BSc (Hons) Computer Science with Industrial Placement	Core
BSc (Hons) Cyber Security	Core
BSc (Hons) Cyber Security with Industrial Placement	Core
BSc (Hons) Software Engineering	Core
BSc (Hons) Software Engineering with Industrial Placement	Core
BSc (Hons) Computing for Business	Core

Breakdown of module hours

Learning and teaching hours	36 hrs
Placement tutor support hours	0 hrs
Supervised learning hours e.g. practical classes, workshops	0 hrs
Project supervision hours	0 hrs
Active learning and teaching hours total	**36 hrs**
Placement hours	0 hrs
Guided independent study hours	164 hrs
Module duration (Total hours)	**200 hrs**

Module aims

This module aims to equip students with the knowledge, skills, and professional mindset required to address information security challenges, ensure effective governance, and contribute to the protection of information assets within organisational contexts. Students will develop an understanding of relevant legal, regulatory, ethical, and professional considerations and how these are applied through policies, procedures, and standards in contemporary digital environments.

On completion of this module students should have a clear concept of the role of programming syntax and logic in the context of their chosen subject area. They should be able to utilise fundamental programming techniques and strategies to solve contextual problems or development criteria.

Module Learning Outcomes

At the end of this module, students will be able to:

1	Research and appraise professional skills related to computing and develop a professional and ethical approach to practice.
2	Apply appropriate compliance laws, regulation and standards that affect businesses today.
3	Apply information security standards to real-world applications in both the private and public sector.
4	Identify global laws and regulations for information security.
5	Interpret the various industrial certifications relevant in the computing industry.

Assessment

Indicative Assessment Tasks:
This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

The learning outcomes of this module are assessed through two components: a written assessment and an in-class assessment. The written assessment (approximately 1,800 words) evaluates understanding of risk assessment and mitigation in the context of information security and governance. The in-class assessment is an online test focusing on relevant laws, regulations, and standards, with a duration of approximately 90 minutes.

Assessment number	Learning Outcomes to be met	Type of assessment	Duration/Word Count	Weighting (%)	Alternative assessment, if applicable
1	1,2,3	Written assignment	2000 Words or Equivalent	50%	Equivalent coursework

2	4,5	In-class test	90 minutes	50%	Equivalent test format

Derogations

N/A

Learning and Teaching Strategies

In line with the Active Learning Framework, this module will be blended digitally with both a VLE and online community. Content will be available synchronously and asynchronously and will include the key concepts, ideas, theories, and examples. Discussion boards and other online learning activities will allow for the further exploration of the topics to give students the opportunity to investigate, discuss and acquire further subject specific knowledge and understanding and how this applies to the real-world environment.

Welsh Elements

This module is designed to support Welsh-speaking students in line with the Welsh Language Standards. While the primary delivery will be in English, students will have the opportunity to submit assessments, including coursework and projects, in Welsh if preferred. Relevant module materials, such as reading lists, key texts, and guidance, will be available bilingually upon request, ensuring accessibility for all students. Additionally, where possible, guest speakers, case studies, or examples may include references to the Welsh business context, especially in areas such as data use in local industries and Welsh public sector organisations.

The department encourages students to develop bilingual digital skills by incorporating Welsh-language datasets, tools, and resources where appropriate, offering an inclusive learning environment. We also support the development of bilingual visualisation techniques, enabling students to create digital outputs that reflect the Welsh language, should they wish to do so.

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Indicative Syllabus Outline

Indicative syllabus includes topic areas that may include:
- Risk management
- Security operations and incident response
- Identity and access management
- Legal and Regulatory Compliance
- Security governance and strategy
- Emerging technologies and trends
- Professionalism and social responsibility
  - Ethical
  - Social
  - Sustainability
  - Political aspects

- o Usability
- o Security
- o Accountability

Indicative Bibliography

Please note the essential reads and other indicative reading are subject to annual review and update.

Essential Reads:
Taylor, A., Alexander, D., Finch, A. and Sutton, D. (2020) Information Security Management Principles. BCS.

Other indicative reading:
- Taylor, D. Alexander, A. Finch and D. Sutton, *Information Security Management Principles,* 3rd ed., BCS, The Chartered Institute of IT, 2020.
- R. Anderson, *Security Engineering,* 3rd ed., Wiley, 2020.
- R. E. Smith, *Elementary Information Security*, 3rd ed., Jones and Bartlett.
- Financial Conduct Authority, 2023. [Online]. Available: https://www.fca.org.uk/ .
- Information Commissioner's Office, 2023. [Online]. Available: http://www.ico.org.uk/.
- Ofcom, 2023. [Online]. Available: https://www.ofcom.org.uk/home.

Administrative Information

For office use only	
Initial approval date	08/11/2023
With effect from date	Sept 2026
Date and details of revision	March 26 – Addition of BSc (Hons) Computing for Business from Sept 26
Version number	2