

WM3E8-30 Cyber Security Project

27/28

Department

WMG

Level

Undergraduate Level 3

Module leader

Harjinder Lallie

Credit value

30

Module duration

30 weeks

Assessment

100% coursework

Study location

University of Warwick main campus, Coventry

Description

Introductory description

A project for BSc Cyber Security must focus on the cyber security domain.

With support from their supervisor, an individual student will be expected to undertake the full life cycle of a research or development project in the cyber domain.

Module aims

In this module, students will undertake the full life cycle of a research or development project in the cyber domain. The module emphasises the critical evaluation of existing published materials, enabling students to present relevant ideas and insights into a well-referenced literature review. It equips students with the skills to choose and effectively apply suitable research methods, tools, and techniques tailored to address specific research questions and the associated research objectives. Furthermore, the module allows students to develop their project management skills, including planning, monitoring, risk mitigation, and reporting, aimed at completing their project with optimal time and resource utilisation. An integral part of this module is the emphasis on effective communication, ensuring that findings are presented in a manner that resonates with the needs and expectations of the intended audience. Finally, ethical responsibility is a core value considered the module, guiding students in the responsible conduct of research or development, thus ensuring the integrity of their work.

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.

The nature of scientific research and development.

Cyber research and development methods.

Ethical considerations in cyber research and development.

Risk management of cyber projects.

Planning, managing and monitoring a cyber research or development project.

Learning outcomes

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

- Critically evaluate the corpus of published material, formulating relevant ideas into a referenced literature review.
- Select and apply appropriate methods, tools and techniques to suit the requirements of a specific research question or development goal.
- Conduct a research project and/or develop a solution following acceptable research/development principles
- Present research findings to a high standard to suit the needs of the audience

Research element

Conduct experimentation on cyber systems to determine cyber characteristics.

Development projects will not include the research element.

Subject specific skills

Literature search, Project goal alignment, dissertation writing, Data collection and analysis, Experimental design, Critical thinking, Project management, Ethical research conduct, Time management, Innovation and creativity, Presentation skills, Research proposal development, Problem solving, Self-management

Transferable skills

Critical thinking, Problem solving, Communication, Ethical values, Professionalism

Study

Study time

Type	Required
Project supervision	10 sessions of 30 minutes (2%)
Private study	175 hours (58%)
Assessment	120 hours (40%)
Total	300 hours

Private study description

Time spent on studying towards completion of the dissertation

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group A

	Weighting	Study time	Eligible for self-certification
Assessment component			
Project	100%	120 hours	Yes (extension)

Reassessment component is the same

Feedback on assessment

Interaction with supervisor.

Tabula.

Peer reviewing of other students' projects (formative).

Receiving peer review from other students (formative).

Availability

There is currently no information about the courses for which this module is core or optional.