Module Introduction

```python
module = Module(
    code="ELEE1171",
    name="Securing Technologies",
    credits=15,
    module_leader="Seb Blair BEng(H) PGCAP MIET MIHEEM FHEA"
)
```

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Module Aims

Regardless of the future intelligent systems and technologies, the philosophy of security will always be a key concern in its architectural design. The persistent threats of an attack on any future developments require vigilance on behalf of the Engineer from outset.

On completion of this Module, you will have developed an appreciation for thinking strategically about engaging a security-first focus for future engineering projects, having developed a clear awareness of the impact of potential threats and possible mitigation strategies which can be employed.

Module Learning Outcomes

On successful completion of this module a student will be able to:

[1] Reflect on, critically analyse, and propose security threats and possible design considerations for threat mitigation.

[2] Demonstrate a philosophical understanding of future innovations and potential security risks associated with them.

Indicative Content

- Philosophy of security

- Digital security and law

- Threat actors; current and future techniques & tactics

- Managing security risks: devices, and communications/networks

- Cryptographic techniques

- Future user, and application security

Assessments

1. Nature of FORMATIVE assessment supporting student learning: Report (50%).

   - LO: 1-2.

   - Grading Mode: Numeric.

   - Pass Mark: 50%.

2. Examination (Practical) - 50%

   - LO: 1-2.

   - Grading Mode: Numeric.

   - Pass Mark: 50%.

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