



# Course Outline (Higher Education)

<b>School:</b>	School of Engineering, Information Technology and Physical Sciences
<b>Course Title:</b>	CYBER RISK AND INCIDENT MANAGEMENT
<b>Course ID:</b>	ITECH7615
<b>Credit Points:</b>	15.00
<b>Prerequisite(s):</b>	ITECH7611
<b>Co-requisite(s):</b>	Nil
<b>Exclusion(s):</b>	Nil
<b>ASCED:</b>	029901

## Description of the Course:

Cyber risk management is about managing the effects of uncertainty on organizational objectives in a way that makes the most effective and efficient use of limited resources. The course will address designing a framework of risk management processes that ensure engagement by key stakeholders, aligning risk management to organizational goals and objectives, and setting up policies, procedures and guidance throughout the enterprise.

**Grade Scheme:** Graded (HD, D, C, P, MF, F, XF)

**Placement Component:** No

## Program Level:

Level of course in Program	AQF Level of Program					
	5	6	7	8	9	10
Introductory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intermediate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>
Advanced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Learning Outcomes:

### Knowledge:

- K1.** Explain enterprise information security risk management framework and its practices.
- K2.** Articulate the business consequences of identified information security risks.

- K3.** Discover the relationship between the cyber security risk and business value.
- K4.** Discuss risk control, micro safeguards and business impact analysis.
- K5.** Explore the intersection of cyber security, data science and business intelligence.
- K6.** Discuss the cyber risk landscape and cyber security metrics.

**Skills:**

- S1.** Identify and model information security risks.
- S2.** Research and apply qualitative and quantitative techniques for risk assessment.
- S3.** Evaluate cyber risks in business continuity management.
- S4.** Analyse challenges and problems in cyber risk assessment.

**Application of knowledge and skills:**

- A1.** Develop strategic security and cyber Incident response plan
- A2.** Create effective data security policy
- A3.** Develop management and leadership skill
- A4.** Conduct cyber-risk assessment

**Course Content:**

Topics may include:

- The principles of risk management:
- Law on Privacy, Intellectual Property, Professional Ethics and Data Security
- Regulations, Compliance and Cyber Risk Management
- Fair User and Ethical Hacking
- Copyrights, Trademarks, Internet Fraud, Electronic Evidence, and Cybercrimes
- Asset Evaluation and Business Impact Analysis
- Risk Identification, Quantification, Response Development and Control
- Security Operation Compliance and Business Continuity
- Security Strategic Planning, Policy, and Leadership

**Values:**

- V1.** Value the relevance of understanding client requirements and contexts in cyber risk management.
- V2.** Appreciate the need for compliance with organisational policies and procedures in managing cyber risks.
- V3.** Value the role of information assurance and security policies in effective management of cyber risks.

**Graduate Attributes**

The Federation University FedUni graduate attributes (GA) are entrenched in the [Higher Education Graduate Attributes Policy](#) (LT1228). FedUni graduates develop these graduate attributes through their engagement in explicit learning and teaching and assessment tasks that are embedded in all FedUni programs. Graduate attribute attainment typically follows an incremental development process mapped through program progression. **One or more graduate attributes must be evident in the specified learning outcomes and assessment for each FedUni course, and all attributes must be directly assessed in each program**

Graduate attribute and descriptor		Development and acquisition of GAs in the course	
		Learning Outcomes (KSA)	Assessment task (AT#)
GA 1 Thinkers	Our graduates are curious, reflective and critical. Able to analyse the world in a way that generates valued insights, they are change makers seeking and creating new solutions.	K2, K3, K4, K5, S1, S2, A1, A3	AT1, AT3
GA 2 Innovators	Our graduates have ideas and are able to realise their dreams. They think and act creatively to achieve and inspire positive change.	K2, S2, A1, A2	AT3
GA 3 Citizens	Our graduates engage in socially and culturally appropriate ways to advance individual, community and global well-being. They are socially and environmentally aware, acting ethically, equitably and compassionately.	K5, S1, A2	AT3
GA 4 Communicators	Our graduates create, exchange, impart and convey information, ideas, and concepts effectively. They are respectful, inclusive and empathetic towards their audience, and express thoughts, feelings and information in ways that help others to understand.	K4, K6, S1, S2, S3, S4, A1, A2,A3,A4	AT3
GA 5 Leaders	Our graduates display and promote positive behaviours, and aspire to make a difference. They act with integrity, are receptive to alternatives and foster sustainable and resilient practices.	K2, K3, S2, S3, A1, A2	AT2, AT3

### Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
K1,K2,K3,K4,K5,K6, S1,S2,S3,S4,A1,A2,A3,A4	Participate in lectures and labs/tutorials, read and summarise theoretical and practical aspects of the course.	Tutorial	20-30%
K1,K2,K3,K4,K5,K6, S1,S2,,A1,A2	The tasks will develop skills in the analysis and practical application of content introduced.	Assignment(s) and Presentation(s)	30-50%
K1,K2,K3,K4,K5,K6,A1,A2,,S1,S2	Study course material, read and summarise theoretical aspects of the course	Examination(s)/Test(s)	30-50%

### Adopted Reference Style:

APA

Refer to the [library website](#) for more information

Fed Cite - [referencing tool](#)