Course Outline (Higher Education)

Institute / School: Institute of Innovation, Science & Sustainability

Course Title: CYBER RISK AND INCIDENT MANAGEMENT

Course ID: ITECH7615

Credit Points: 15.00

Prerequisite(s): (ITECH7614)

Co-requisite(s): Nil

Exclusion(s): Nil

ASCED: 029901

Description of the Course:

With the continuously growing cyber threats and attacks, managing cyber security risks and incidents is becoming an increasing challenge for enterprises operating in global digital environments. 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. The course will further look into the impact of cyber risk on society and ethical issues.

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

Work Experience:

No work experience: Student is not undertaking work experience in industry.

Does Recognition of Prior Learning apply to this course? No

Placement Component: No

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the course but gained a final mark of 45 per cent or above and submitted all major assessment tasks.

Program Level:

Level of course in Program	AQF Level of Program					
	5	6	7	8	9	10
Introductory						
Intermediate					✔	
Advanced						

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, business impact analysis, and ethical and societal impacts.
K5. 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 cyber risk and incident management policy
A3. 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

FEDTASKS

Federation University Federation recognises that students require key transferable employability skills to prepare them for their future workplace and society. FEDTASKS (**T**ransferable **A**ttributes **S**kills and **K**nowledge) provide a targeted focus on five key transferable Attributes, Skills, and Knowledge that are be embedded within curriculum, developed gradually towards successful measures and interlinked with cross-discipline and Co-

operative Learning opportunities. *One or more FEDTASK, transferable Attributes, Skills or Knowledge must be evident in the specified learning outcomes and assessment for each FedUni course, and all must be directly assessed in each program.*

FEDTASK attribute and descriptor		**Development and acquisition of FEDTASKS in the course**	
		Learning Outcomes (KSA)	**Assessment task (AT#)**
FEDTASK 1 Interpersonal	Students at this level will demonstrate an advanced ability in a range of contexts to effectively communicate, interact and work with others both individually and in groups. Students will be required to display high level skills in-person and/or online in: • Using and demonstrating a high level of verbal and non-verbal communication • Demonstrating a mastery of listening for meaning and influencing via active listening • Demonstrating and showing empathy for others • High order skills in negotiating and conflict resolution skills • Demonstrating mastery of working respectfully in cross-cultural and diverse teams.	Not applicable	Not applicable
FEDTASK 2 Leadership	Students at this level will demonstrate a mastery in professional skills and behaviours in leading others. • Creating and sustaining a collegial environment • Demonstrating a high level of self -awareness and the ability to self-reflect and justify decisions • Inspiring and initiating opportunities to lead others • Making informed professional decisions • Demonstrating initiative in new professional situations	Not applicable	Not applicable
FEDTASK 3 Critical Thinking and Creativity	Students at this level will demonstrate high level skills in working in complexity and ambiguity using the imagination to create new ideas. Students will be required to display skills in: • Reflecting critically to generate and consider complex ideas and concepts at an abstract level • Analysing complex and abstract ideas, concepts and information • Communicate alternative perspectives to justify complex ideas • Demonstrate a mastery of challenging conventional thinking to clarify complex concepts • Forming creative solutions in problem solving to new situations for further learning	K1,K2,K3,K4,K5, S1,S2,S3,S4,A1,A2,A3	AT1, AT2, AT3

FEDTASK attribute and descriptor		Development and acquisition of FEDTASKS in the course	
		Learning Outcomes (KSA)	**Assessment task (AT#)**
FEDTASK 4 Digital Literacy	Students at this level will demonstrate the ability to work competently across a wide range of tools, platforms and applications to achieve a range of tasks. Students will be required to display skills in: • Mastering, exploring, evaluating, managing, curating, organising and sharing digital information professionally • Collating, managing complex data, accessing and using digital data securely • Receiving and responding professionally to messages in a range of professional digital media • Contributing competently and professionally to digital teams and working groups • Participating at a high level in digital learning opportunities	K1,K2,K3,K4,K5, S1,S2,S3,S4,A1,A2,A3	AT1, AT2, AT3
FEDTASK 5 sustainable and Ethical Mindset	Students at this level will demonstrate a mastery of considering and assessing the consequences and impact of ideas and actions in enacting professional ethical and sustainable decisions. Students will be required to display skills in: • Demonstrate informed judgment making that considers the impact of devising complex solutions in ambiguous global economic environmental and societal contexts • Professionally committing to the promulgation of social responsibility • Demonstrate the ability to evaluate ethical, socially responsible and/or sustainable challenges and generating and articulating responses • Communicating lifelong, life-wide and life-deep learning to be open to the diverse professional others • Generating, leading and implementing required actions to foster sustainability in their professional and personal life.	Not applicable	Not applicable

Learning Task and Assessment:

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1,K2,K3,K4,K5, S1,S2,S3,S4,A1,A2,A3	Participate in lectures and labs/tutorials, read and summarise theoretical and practical aspects of the course.	Tutorial	20-30%
K1,K2,K3,K4,K5, 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, A1,A2,S1,S2	Study course material, read and summarise theoretical aspects of the course	Examination(s)/Test(s)	30-50%

Alignment to the Minimum Co-Operative Standards (MiCS)

The Minimum Co-Operative Standards (MiCS) are an integral part of the Co-Operative University Model. Seven criteria inform the MiCS alignment at a program level. Although courses must undertake MiCS mapping, there is NO expectation that courses will meet all seven criteria. The criteria are as follows:

1. Co-design with industry and students
2. Co-develop with industry and students
3. Co-deliver with industry
4. FedTASK alignment
5. Workplace learning and career preparation
6. Authentic assessment
7. Industry-link/Industry facing experience

MiCS program level reporting highlights how each program embraces the principals and practices associated with the Co-Operative Model. Evidence of program alignment with the MiCS, can be captured in the Program Modification Form.

MICS Mapping has been undertaken for this course No

Date:

Adopted Reference Style:

APA

Refer to the library website for more information

Fed Cite - referencing tool