

UNIVERSITI TEKNOLOGI MARA ASM655: MANAGEMENT OF INFORMATION SECURITY

Course Name (English)	MANAGEMENT OF INFORMATION SECURITY APPROVED		
Course Code	ASM655		
MQF Credit	4		
Course Description	The course focuses on the managerial aspects of information security, such as access control models, information security governance, and information security program assessment and metrics. Coverage on the foundational and technical components of information security is included to reinforce key concepts. This course offers a unique overview of information security from a management perspective while maintaining a finger on the pulse of industry changes and academic relevance. This course also reviews some of the recent issues in information security and how to secure information in modern organizations.		
Transferable Skills	Students able to discuss the concepts of cyber and information security and the key practices and processes for managing security effectively. Students are also capable to apply the practice used in legal, ethical, and regulatory issues that shape policy development and the ways in which organizations implement and administer security.		
Teaching Methodologies	Lectures, Blended Learning, Case Study, Small Group Sessions , Problem-based Learning		
CLO	CLO1 Discuss the concepts of cyber and information security and the key practices and processes for managing security effectively CLO2 Apply the access controls and authentication as they are used to secure systems and how they can be mitigated CLO3 Apply the practice used in legal, ethical, and regulatory issues that shape policy development and the ways in which organizations implement and administer security		
Pre-Requisite Courses	No course recommendations		
Tonics			

Topics

1. Introduction To The Management of Information Security

- 1.1) Introduction To Security
- 1.2) Key Concepts of Information Security: Threats and Attacks1.3) Management and Leadership1.4) Principles of Information Security Management

2. Compliance: Law and Ethics

- 2.1) Introduction to Law and Ethics
 2.2) Ethics in InfoSec
 2.3) Professional Organizations and Their Codes of Conduct
 2.4) Information Security and Law
 2.5) Organizational Liability and The Management of Digital Forensics

3. Governance and Strategic Planning for Security 3.1) The Role of Planning 3.2) Strategic Planning 3.3) Information Security Governance 3.4) Planning for Information Security Implementation

4. Information Security Policy

- 4.1) Enterprise Information Security Policy

- 4.1) Enterprise information occurry 1 only
 4.2) Issue-specific Security Policy
 4.3) System-specific Security Policy
 4.4) Guidelines for Effective Policy Development and Implementation

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5. Developing The Security Program

- 5.1) Organizing for Security5.2) Placing Information Security Within an Organization5.3) Components of The Security Program
- 5.4) Implementing Security Education, Training and Awareness (SETA) Programs
- 5.5) Project Management in Information Security

6. Risk Management

- 6.1) Risk Management
- 6.2) Introduction to The Management of Risk in Information Security6.3) The Risk Management Process
- 6.4) Introduction to Risk Treatment
- 6.5) Managing Risk
- 6.6) Alternative Risk Management Methodologies

7. Security Management Models

- 7.1) Introduction to Blueprint, Framework and Security Models
- 7.2) Security Management Models
- 7.3) Security Architecture Models
- 7.4) Access Control Models
- 7.5) Academic Access Control Models

8. Security Management Practices

- 8.1) Introduction to Security Practices 8.2) Security Employment Practices
- 8.3) Information Security Performance Measurement
- 8.4) Benchmarking

- 9. Planning for Contingencies9.1) Introduction to Contigency Planning
- 9.2) Incident Response
- 9.3) Disaster Recovery
- 9.4) Business Continuity
- 9.5) Crisis Management 9.6) Business Resumption
- 9.7) Testing Contigency Planning

10. Security Maintenance

- 10.1) Introduction to Security Maintenance
- 10.2) Security Management Maintenance Models

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Assessment Breakdown	%
Continuous Assessment	100.00%

Details of				
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Group Assignment	20%	CLO2
	Case Study	Individual Case Study	20%	CLO2
	Group Project	Group Project	40%	CLO3
	Test	Test	20%	CLO1

Reading List	Recommended Text	Michael E. Whitman,Herbert J. Mattford 2018, Management of Information Security, 6th Edition Ed., Cengage Singapore [ISBN: 9789814834735]	
	Reference Book Resources	Michael E. Whitman,Herbert J. Mattord 2013, <i>Management of Information Security</i> , 4th Edition Ed., Cengage Learning [ISBN: 9781285062297]	
		Alan, C. and Steve, W. 2008, <i>IT Governance: A Manager's</i> Guide to Data Security, 3rd edition Ed.	
		William, S. and Lawrie,B. 2016, Computer Security: Principles and Practice, Pearson	
		David, B., Patrick, S., and Michael, S. 2011, Applied Information Security: A Hands-on Approach	
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		

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