



UNIVERSITI TEKNOLOGI MARA

CSC796: WEB INFORMATION SECURITY

Course Name (English)	WEB INFORMATION SECURITY APPROVED
Course Code	CSC796
MQF Credit	3
Course Description	Interest in information security has been spurred by the pervasive use of computer-based applications such as information systems, databases and the Internet. Information security is enabled through securing data, computers and networks. An intelligent, high-performance information security is a must-have for today's organizations. By enforcing information security will enable organizations to protect their goodwill and reputation.
Transferable Skills	Students will develop a higher degree of understanding in web security knowledge and skills of dealing with common web application errors that lead to most security problems.
Teaching Methodologies	Lectures, Discussion
CLO	CLO1 Explain the basic security related issues in Web-based information, systems and applications CLO2 Summarize the importance of information security in current computer-driven world CLO3 Distinguish the key concepts of information security and how they work CLO4 Critically analyse situations of information in web from security perspective CLO5 Recommend suitable security design approaches for any web applications acquire
Pre-Requisite Courses	No course recommendations
Topics	
1. PRINCIPLES OF COMPUTER SECURITY 1.1) An overview of Computer Security	
2. ATTACKS AND DEFENCE ON COMPUTER SYSTEMS 2.1) Firewalls 2.2) Intrusion detection 2.3) Countermeasures	
3. SECURITY POLICIES 3.1) Access control policies 3.2) Confidentiality policies 3.3) Integrity policies 3.4) Hybrid policies	
4. LEVEL OF WEB SECURITY 4.1) Network security 4.2) System security 4.3) User security 4.4) Program security	
5. BASIC CRYPTOGRAPHY 5.1) Cryptography key management 5.2) Session and interchange keys 5.3) Key exchange and generation 5.4) Cryptography key infrastructure 5.5) Storing and revoking keys 5.6) Digital signatures 5.7) Cipher techniques	

6. SECURE SYSTEM DESIGN, ACCESS CONTROL AND PROTECTION

- 6.1) Access control matrix
- 6.2) Basic web security model
- 6.3) User authentication and session management
- 6.4) Trusted computing architecture

7. SOCIETAL ISSUES IN COMPUTER SECURITY

- 7.1) Legal
- 7.2) Ethical
- 7.3) Governmental

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assignment 1	15%	CLO1
	Assignment	Assignment 2	15%	CLO2
	Final Test	Test 2	15%	CLO4
	Group Project	Group Project	30%	CLO5
	Presentation	Presentation	10%	CLO5
	Test	Test 1	15%	CLO3

Reading List	This Course does not have any book resources
Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources