College/Institute/Centre: Management and Technology
Department of: E-Commerce

SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 1	Title: Password Security	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Password cracking methods**
2	**Brute Force Attacks**
3	**Dictionary Attacks (Wordlists)**
4	**Hashing**
5	**Password security techniques**
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Prepared by:

Designation: Course Coordinator

Name: Dr. Mahmoud Youssef

Sign:

Date: 10/6/2008

Approved by:

Designation. Programme Manager

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Sign:

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SESSION PLAN

Section

COURSE PARTICULARS	
CR415	Title: Information Security

SESSION PARTICULARS		
#: 2	Title: Network Scanners	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Network scanning**
2	**N-map scanner**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 3	Title: Vulnerability Scanners	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Vulnerability scanning**
2	**Nessus scanner**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 4	Title: Defense	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Proactive Defense: Firewalls**
2	**Host hardening**
3	**Securing Communication**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 5	Title: Access Control	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Access Control Models**
2	**DAC, MAC, RBAC**
3	**Access Control Lists**
4	**Privilege Lists**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 6	Title: Organizational aspects and economics	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Security policies**
2	**Types of policies**
3	**Development and management of security policies**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 7	Title: Cross Domain Security in Web Applications	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Cross domain security**
2	**Attack Patterns**
2	**Cross Site Scripting**
3	**Preventing Cross Site Scripting**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 8	Title: SQL Injection	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Possible threats to databases**
2	**SQL Injection**
3	**Attack Scenario**
4	**How to overcome SQL injection**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 9	Title: Security with Apache .htaccess	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**How to use .htaccess**
2	**Error Documents**
3	**Redirects**
4	**Password Protection**
5	**Deny visitors by IP-address**
6	**Deny visitors by referrer**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 10	Title: Encryption & Cryptography	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Introduction to cryptography**
2	**Private key cryptography**
3	**Substitution ciphers (Caesar cipher)**
4	**Transposition ciphers**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 11	Title: Public Key Cryptography & encryption algorithms	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Public key cryptography**
2	**DES**
3	**MD5**
4	**SHA-1**
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SESSION PLAN

Section

COURSE PARTICULARS	
EC415(CR443)	Title: Information Security

SESSION PARTICULARS		
#: 13	Title: Key Management & Exchange	Hrs: 3Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Types of keys**
2	**Key Generation**
3	**Key Storage**
4	**Key Agreement & exchange**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 14	Title: Certification Authority	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
1	**Trusted Third Party**
2	**Installing a certification authority**
3	**Issuing digital certificates**
4	**SSL / X.509 certificates**
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SESSION PLAN

Section

COURSE PARTICULARS	
CR 415	Title: Information Security

SESSION PARTICULARS		
#: 12	Title: Projects' Presentations	Hrs: 2Hrs

LEARNING OUTCOMES / ABILITIES GAINED*	
#	Outcome Description
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