TUNKU ABDUL RAHMAN UNIVERSITY COLLEGE
COURSE FILE DOCUMENTS
FORM B: COURSE PLAN

Course Code & Course Title: BAIT2023 Introduction to Internet Security   Programme(s): RIT2S2

Semester: [   ] May   [✓] October   [   ] March   Academic Year: 2018/19

(please tick "✓")

Hours/Week: Lecture ___2___; Tutorial ___1___, Laboratory/Practical ___1___

Week		Topics	Reference Material (Books/Titles, Journals, Web articles, etc.)	Remarks*
Week 1	Lecture	Chapter 1: Introduction	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Tutorial 1 : Chapter 1		
	Practical	Practical 1: Live Attack Map and Cyber Attack Timeline		
Week 2	Lecture	Chapter 2 : Symmetric Encryption & Message Confidentiality	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Tutorial 1 : Chapter 1		Assignment announcement
	Practical	Practical 2: Threats Predictions	Application Demo (Internet Resources)	
Week 3	Lecture	Chapter 2 : Symmetric Encryption & Message Confidentiality Chapter 3: Public-Key Cryptography and Message Authentication	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Assignment announcement and discussion		
	Practical	Practical 3: Simplified DES Algorithm Demonstration	Application Demo (Internet Resources)	

Week		Topics	Reference Material (Books/Titles, Journals, Web articles, etc.)	Remarks*
Week 4	Lecture	Chapter 3: Public-Key Cryptography and Message Authentication	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Tutorial 2 : Chapter 2	Application Demo (Internet Resources)	
	Practical	Practical 4: RSA Algorithm and Related Calculation		
Week 5	Lecture	Chapter 4: Key Distribution and User Authentication	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Tutorial 3: Chapter 3		
	Practical	Practical 5: RSA Public-Key Encryption System	Application Demo (Internet Resources)	
Week 6	Lecture	Mid-term test		Mid-term test
	Tutorial	Tutorial 4: Chapter 4		
	Practical	Practical 6: Hash Function	Application Demo (Internet Resources)	
Week 7	Lecture	Chapter 5: Electronic Mail Security	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Assignment discussion		
	Practical	Practical 7: Mailvelope - OpenPGP	Application Demo (Internet Resources)	
Week 8	Lecture	Chapter 6: Transport-Level Security	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Tutorial 5: Chapter 5		

Week		Topics	Reference Material (Books/Titles, Journals, Web articles, etc.)	Remarks*
Week 9	Practical	Practical 8: SSL Protocol Analysis Using Wireshark (5 marks)	Application Demo (Internet Resources)	
	Lecture	Chapter 7: IP Security	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Tutorial 6: Chapter 6		
	Practical	Practical 9: OpenVPN	Application Demo (Internet Resources)	
Week 10	Lecture	Chapter 8: Intruders		
	Tutorial	Tutorial 7: Chapter 7		
	Practical	Practical 10: Web application Vulnerability Scanner	Application Demo (Internet Resources)	
Week 11	Lecture	Chapter 9: Firewalls	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Tutorial 8: Chapter 8		
	Practical	Practical 11: Cain and Abel	Application Demo (Internet Resources)	
Week 12	Lecture	Chapter 10: Malicious Software	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Tutorial 9: Chapter 9		
	Practical	Practical 12: Firewall Visualization Tool	Application Demo (Internet Resources)	
Week 13	Lecture	Mid-term test feedback Revision	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	

Week		Topics	Reference Material (Books/Titles, Journals, Web articles, etc.)	Remarks*
	Tutorial	Assignment presentation		Assignment presentation
	Practical	Practical 13: IDS Tool (Snort)	Application Demo (Internet Resources)	
Week 14	Lecture	Chapter 10: Malicious Software	Stalling, W. 2014. Network Security Essentials, 5th edn. Prentice Hall.	
	Tutorial	Tutorial 10: Chapter 10		
	Practical	Practical 13: Revision		

* *Any changes made in the course plan must be recorded.*

Prepared by Course Coordinator:

(Signature)

Name: Dr Wong Thein Lai
Date: 3/10/2018

Approved by Course Leader/ Programme Leader/ Associate Dean:

(Signature)

Name: WONG JEE FOONG
Date: 3/10/2018

Notes:
1) Upon the approval by the Course Leader/ Programme Leader/Associate Dean, Form B must be uploaded onto respective online classroom and distributed to the lecturers at Branch level.
2) Lecturers are advised to take into account the public holidays when planning the course plan.