



SCHEME OF WORK

ITT450

COLLEGE OF COMPUTING, INFORMATICS & MATHEMATICS

UNIVERSITI TEKNOLOGI MARA

SEM OCTOBER 2023 – FEBRUARY 2024

WEEK	LECTURE	TASK/ACTIVITY
1 (2/10-6/10)	1. Introduction to Security <ul style="list-style-type: none">Challenges of Securing InformationWhat Is Information Security?Who Are the Threat Actors?Defending Against Attacks	Overview
2 (9/10-13/10)	2. Malware and Social Engineering Attacks <ul style="list-style-type: none">Attacks Using MalwareSocial Engineering Attacks	Lab 1 Due Date: 16/10/2023 (Kali Linux, Network Scanning & Social Engineering)
3 (16/10-20/10)	3. Networking and Server Attacks <ul style="list-style-type: none">Networking-Based AttacksServer Attacks	Discussion for Project
4 (23/10-27/10)	4. Network Security Devices, Design, and Technology <ul style="list-style-type: none">Security Through Network DevicesSecurity Through Network ArchitectureSecurity Through Network Technologies	Lab 2 Due Date: 30/10/2023 (Packet Analysis with Wireshark)
5 (30/10-3/11)	5. Administering a Secure Network <ul style="list-style-type: none">Secure Network ProtocolsPlacement of Security Devices and TechnologiesAnalyzing Security DataManaging and Securing Network Platforms	PROJECT MEETING 1
6 (6/11-10/11)	6. Wireless Network Security <ul style="list-style-type: none">Wireless AttacksVulnerabilities of IEEE SecurityWireless Security Solutions	REVISION FOR TEST 1
MID SEMESTER BREAK (13/11 – 19/11)		
7 20/11-24/11	TEST 1	TOPIC 1-6

8 (27/11-1/12)	7. Client and Application Security <ul style="list-style-type: none"> • Client Security • Application Security • Physical Security 	PROJECT MEETING 2
9 (4/12-8/12)	8. Mobile and Embedded Device Security <ul style="list-style-type: none"> • Mobile Device Types and Deployment • Mobile Device Risks • Securing Mobile Devices • Embedded Systems and the Internet of Things 	Project Report-Proposal Draft Due Date: 11/12/2023
10 (11/12-15/12) *11/12/23 Hari Keputeraan Sultan Selangor	9. Authentication and Account Management <ul style="list-style-type: none"> • Authentication Credentials • Single Sign-on • Account Management 	Lab 3 Due Date: 2/1/2024 (Access Control Using Linux IPTables)
11 (18/12-22/12)	10. Vulnerability Assessment and Data Security <ul style="list-style-type: none"> • Assessing the Security Posture • Vulnerability Scanning • Penetration Testing • Practicing Data Privacy and Security 	FINALIZE PROJECT
SPECIAL FESTIVE HOLIDAY (25/12 – 1/1)		
12 (1/1-5/1) *1/1/24 New Year Holiday	11. Cryptography <ul style="list-style-type: none"> • Defining Cryptography • Cryptographic Algorithms • Using Cryptography • Digital Certificates • Public Key Infrastructure (PKI) • Key Management • Transport Encryption Algorithms 	PROJECT REHEARSE
13 (8/1-12/1)	TEST 2	TOPIC 7-11
14 (15/1-19/1)	GROUP PRESENTATION	PROJECT EVENT DAY