



AL MUSANNA COLLEGE OF TECHNOLOGY

Educational Technology Center

Short Term Course – Semester I (AY2018 – 19)

Course Name : Internet eSecurity	Course Code : STC
Pre Requisite : Basic knowledge about Networking	Eligibility: Diploma, Advanced Diploma or Bachelor
Introduction: This course introduces the basics on learning Networking Security, Secure Internet, try to understand basic hacking techniques and aware about security threats.	
Objectives: End of this course, you should be able to <ul style="list-style-type: none"> ➤ Aware about security threats and active threats and attacks. ➤ You will able to understand privacy and anonymity your identity. ➤ You will able to understanding encryption and decryption techniques. ➤ You will understand vulnerabilities threats about windows, MacOS and Linux under virtual environments. 	
Topics	Methodologies
Day 1: Introduction of Security, Know your Yourself-Threat and Vulnerability, Know Your Enemy- Current threat and Vulnerability.	Theory/Practical
Day 2: Encryption Techniques: Symmetric and Asymmetric, SSL Stripping, HTTPs, Digital Certificates, Steganography, Attacked Example by using Security and Encryption.	Theory/Practical
Day 3: Operating Systems Security & Privacy Windows 10, Mac- Privacy & Tracking and Linux Tracking.	Theory/Practical
Day 4: How to Reduced Threat Privilege: Windows OS, Social Engineering and Social Media Threat. Security Bugs and Vulnerabilities related Windows 7, Windows 10, Linux- Debian -Patching,	Theory/Practical

MAC - Patching, Firefox, Chrome, IE and Edge-Browser and Extension Updates.

Day 5:

How to more secure Your Domains, Secure Networks through Isolation and Partition. How to build-in Sandboxes and Application Isolation, Virtual Machines: Weaknesses and Hardening. Whonix OS- Anonymous Operating System and Weaknesses.

Theory/Practical

Software & Hardware Tools: Security, Windows 10, MacOS, Debian Linux VMware Workstation and Packet filtering Tools