Title: Bachelor of Computing Systems

Version: 0.1 FINAL

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Learning Outcome number and Time	Expanded Outcomes	Method	Assessment Type
	 Malicious insiders Discovery Footprinting and social engineering Port scanning Phishing Metadata discovery Exploitation and lateral movement Exploit packs and exploit generation Pass-the-Hash technology Enumeration Payloads Rootkits RATs(NetBus, BackOrifice, "Poison Ivy") Botnets Dos & DDos Buffer overflows &Ping of Death attacks Programming basics for security professionals Software vulnerabilities Vindows OS vulnerabilities Linuxvulnerabilities Embedded operating systems Web application security: Code injection Server-side Injection Cross-site Injection and request forgery Web scrapping Fiddler, Burpsuite 	reflection of on-line research, databases and industry inquiry.	
5. (3 weeks)	Cryptography Understanding cryptography basics One time pad perfect security proof Understanding cypher methods, algorithms, and tools Block ciphers, CBC etc. Public key infrastructure and certificates Secure protocols (TLS, SSH) Protocols for secure communications Attacks on cryptosystems	Lecture Discussion, collaborative work. Critical reflection of on- line research, databases	Test: to review self, efficacy
6. (2 week)	Preventing cyber attacks, and network protection systems Understanding IDS/IPS Systems Understanding honeypots	Lecture Discussion, collaborative work. Critical reflection of on- line research, databases	Test: to review self, efficacy

Course title: Advanced Cyber Security 3

Saved on 30 January 2014