

Road Map

Dr. Ahmed M. ElShafee

About the course

Course name, Code	Information Security
Pre-requisite	Network I
Credit hours	3
Number Sessions	8
Date, time, place	Monday 09:00 ~ 12:00 @ 1204 Monday 12:30 ~ 14:00 @ 1217
Text book	<i>William Stallings, "Cryptography & Network Security"</i>

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Presentations and materials	www.aelshafee.net

Objectives

- Develop an understanding of information assurance as practiced in computer operating systems, distributed systems, networks and representative applications.
- Gain familiarity with network and distributed system attacks, defenses against them.
- Develop a basic understanding of cryptography, how it has evolved, and some key encryption techniques used today.
- Develop an understanding of security policies (such as authentication, integrity and confidentiality), as well as protocols to implement such policies in the form of message exchanges.

Intended Learning Outcomes

- Build knowledge base on Information & Networks Security
- Understand the different types of algorithms in Information & Networks Security.
- Develop basic skills to design, implement, and maintain different algorithms in Information & Networks Security

TOC

- Basic concepts of information and networks security;
- Classical encryption techniques;
- Data Encryption Standards (DES);
- Advanced Encryption standards
- Public key cryptography;
- Digital signature;
- Message authentication
- Hash functions

Thanks,..
Lets do this,...