

Department of Electrical and Computer Engineering

Title: «**Network Security**»

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XOD02 013, New Campus - University of Cyprus

Abstract:

With the rapid increase of network and Internet usage nowadays, the number of vulnerabilities also tremendously increases. These vulnerabilities are exploited in the form of attacks. Preventing attacks requires some cryptographic solutions such as symmetric encryption, asymmetric encryption, data integrity algorithms, user authentication, and others. However, adopting only strong cryptographic algorithms will not assure data assurance and security. Security is a system which must consider cryptography, the human being, the physical equipment, and many other parameters. In this seminar, an introduction to network security will be introduced which covers the following topics: (i) Why security is difficult to achieve; (ii) How to achieve security; (iii) Absolute security; (iv) Symmetric encryption techniques; (v) Asymmetric encryption techniques; (vi) Data integrity; (vii) New user authentication techniques; (viii) LAN security and application layer security.

Biography:

Ramzi Saifan received his B.Sc. and M.S. degrees in computer engineering from Jordan University of Science and Technology, Irbid, Jordan, in 2003 and 2006 respectively. He received his Ph.D. degree in computer engineering from Iowa State University in 2012. On Jan. 2013, he joined the Department of Computer Engineering at the University of Jordan as an Assistant Professor. His current research interests include computer networks, computer and network security, and cognitive radio networks. Saifan has published several papers in peer-reviewed journals and conferences.