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BACKGROUND

The proliferation of commercial activities over different networked systems has increased security concerns on an unprecedented scale. From traditional Internet-based applications to newly emerging ubiquitous services over 3G, Wireless LAN, mobile ad hoc/Mesh Network (MANET) and sensor networks; there is an increasing demand of measures to guarantee the confidentiality, integrity, and availability of system services.

Information/Internet security consists of the provisions and policies adopted to prevent and monitor unauthorized access, misuse, modification or denial of information and information systems. Security is becoming increasingly important in today’s networked world and is impacting every aspect of society including finance, healthcare, government, education, arts and entertainment.

INTRODUCTION

The workshop is being jointly organized by COMSATS Secretariat in collaboration with Islamic Educational, Scientific and Cultural Organization (ISESCO), Syrian-COMSATS-COMSTECH IT Centre (SCCITC), Ministry of Higher Education (MOHE) of Syrian Arab Republic, Higher Institute for Applied Sciences and Technology (HIAST), Inter-Islamic Network on Information Technology (INIT) and COMSATS Institute of Information Technology (CIIT). This is a five days workshop composed of five modules and each module is covered in one day. Each day is sub-divided in four sessions.

The workshop covers major aspects of information security ranging from theoretical understanding of cryptographic algorithms to practical subtleties of networked systems. The intensive course is aimed at professionals working in any field involving cryptography or network security. The course will be delivered by renowned experts in the area of information security containing lectures, tutorials and practical exercises.

AIMS AND OBJECTIVES

The objective of this workshop is to teach the basic principles of information/network security from the perspective of providing security awareness and its best practices for the real world applications. It is also aimed at increasing the state-of-the-art technologies for protection of network and network-accessible resources from different types of attacks. Furthermore, a handful of network security tools will be demonstrated to provide opportunities to the participants to update their knowledge and allow them to interact for further collaborative works.

A training manual will be prepared by experts and is to be provided to all participant to facilitate and impart training effectively.

KEY AREAS

Following are the key areas of the workshop

- Network Security
- Organizational Security
- Cryptographic Techniques for Network Security
- Biometric Security
- Web Security

LEARNING OUTCOMES

The focus of this workshop is on both theoretical and practical aspects of information security. By the end of the workshop, the participants will be able to:

- Understand network protocols, models, topologies and related security threats
- Use packet sniffing tools including Wireshark and Tcpdump
- Understand major modern-day cryptographic algorithms and protocols
- Use full disk encryption (FDE) tools including TrueCrypt and Microsoft’s BitLocker
- To familiarize about the anti-virus, anti-spyware tools and firewalls
- Understand how major web security applications work
- Setup different web security applications e.g. Kerberos, IPSec and PGP
- Understand the working of contemporary biometric systems
- Understand organizational security and implement appropriate policies and procedures for a given organization
- Understand different aspects of cyber security

WHO SHOULD ATTEND THE WORKSHOP?

The contents included in the workshop are designed in such a manner that it would be beneficial for the IT professional as well as for the Managers and Executives having knowledge of computer science.

ELIGIBILITY CRITERIA

Bachelor Degree with good knowledge of Computer Science/Information Technology.

KEY SPEAKERS

Nasro Min-Allah received his Undergraduate and Master degrees in electronics and information technology in 1998 and 2001 respectively. He obtained a PhD in real-time systems from the graduate university of the Chinese Academy of Sciences, P.R China in 2008. Currently, he is heading the Department of Computer Science, COMSATS Institute of Information Technology.

REGISTRATION FORM

Workshop on

Internet Security: Enhancing Information Exchange Safeguards

July 23-27, 2011

Damascus, Syria

Name_________ Designation_________
Institution/Organization_________
Highest Qualification_________
Present Field of Activity_________

Signature_________
Date_________

I wish to participate in the above mentioned workshop and would like to register for the same.

Last date for registration as a participant is June 30, 2011. You can also register online at COMSATS’ website: www.comsats.org.