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- topologies and related security threats;
- Understand major modern-day cryptographic algorithms and protocols;
 - Use packet sniffing tools, including Wireshark and Tcpdump;
 - Use Full Disk Encryption (FDE) tools, including TrueCrypt and Microsoft's BitLocker;
 - Understand the anti-virus, anti-spyware tools and firewalls;
 - Understand the working of major web-security applications;
 - Setup different web security applications, e.g. Kerberos and SET;
 - Understand the working of contemporary biometrics systems;
 - Understand organizational security in order to implement appropriate policies and procedures for a given organization;
 - Understand different aspects of cyber security; and
 - Understand and use various types of ethical hacking tools to secure the networks, including: network sniffing, spoofing and poisoning; port scanning and vulnerability analysis; offline and online password attacks; buffer overflow; and root-kits and trojans.

PARTICIPATION FEES FOR LOCAL PARTICIPANTS

Each local (Jordanian) participant will be charged JOD 300/- to cover the costs of training materials, coffee, lunch, etc.

Group Registration Concessions: 10% for two participants, 15% for three participants, and 20% for four or more participants registering together.

FINANCIAL SUPPORT

Partial or full financial support will be provided to selected foreign participants from the Member Countries of ISESCO and INIT.

RESOURCE PERSONS

- i. **Dr. Sheikh Ziauddin**, Post-doctoral Research Fellow, Laboratoire d'Informatique, Signaux et Systèmes de Sophia-Antipolis (I3S), Sophia Antipolis, France; and Assistant Professor, COMSATS Institute of Information Technology, Islamabad, Pakistan
- ii. **Dr. Abbas Haider**, Research Fellow/Assistant Professor, Center of Excellence in Information Assurance, King Saud University, Saudi Arabia
- iii. **Dr. Malik Najmus Saqib**, Assistant Professor, COMSATS Institute of Information Technology (CIIT), Islamabad, Pakistan
- iv. **Mr. M. Mustafa Khattak**, Assistant Professor, COMSATS Institute of Information Technology (CIIT), Islamabad, Pakistan

Upon the completion of the workshop, each participant will be granted a Certificate of Participation from the Royal Scientific Society (RSS), Jordan.

*Second COMSATS-ISESCO-INIT
International Workshop on*

“INTERNET SECURITY: ENHANCING INFORMATION EXCHANGE SAFEGUARDS”

*September 16-20, 2012
Amman, Jordan*



Organized by



BACKGROUND

Today's world, which is referred to as a global village, is faced with many privacy and security issues in the wake of increasing commercial, social and personal activities over the computer networks. Information security can only be ensured through creating and implementing provisions and policies to prevent and monitor unauthorized access, misuse, modification or denial of information and information systems. In order to achieve the desired level of information security, Internet/information risks should be well identified, prioritized and mastered by taking effective procedural and technical security measures.

Internet/information security has direct bearing on all aspects of societal activities, viz. government, education, healthcare, arts and entertainment, commerce, among others. Thus, there is an increasing demand to ensure the security of services in traditional and emerging Internet-based applications, such as ubiquitous services, wireless LANs, and mobile ad-hoc and sensor networks.

Realizing the significance of Internet security, the Commission on Science and Technology for Sustainable Development in the South (COMSATS); the Islamic Educational, Scientific and Cultural Organization (ISESCO); and the Inter Islamic Network on Information Technology (INIT) took the initiative of spreading awareness on this important field in the developing countries, particularly in their Member States, by means of organizing a series of training workshops. In this regard, the first workshop of the series was held at Damascus, Syria, on July 23-27, 2011.

INTRODUCTION

The second five-day International Workshop on

'Internet Security: Enhancing Information Exchange Safeguards' is being organized in Amman, Jordan, on September 16-20, 2012, by ISESCO, in collaboration with COMSATS; the COMSATS Institute of Information Technology (CIIT), Pakistan; the Inter Islamic Network on Information Technology (INIT); and the El Hassan Science City (EHSC), Jordan (having membership of the Royal Scientific Society (RSS) and the Princess Sumaya University of Technology (PSUT) of Jordan).

AIMS AND OBJECTIVES

The workshop aims to provide a forum to the young scientists/researchers from the developing countries to learn about the latest advancements in the field of Internet security; promote the use of state-of-the-art technologies for protection of network and network-accessible resources from different types of software attacks; and identify effective Internet/information security solutions for general public, governmental organizations and commercial ventures through rigorous risk-analyses and security management approaches.

FORMAT

The workshop comprises five modules, each spread over one day. It includes technical presentations, tutorials and hands-on training sessions by a group of renowned subject experts.

The workshop will cover major aspects of Internet/information security, ranging from theoretical understanding of cryptographic algorithms to practical subtleties of the network systems, and will also address the related managerial and technical issues. Moreover, a handful of network security tools will be demonstrated to provide opportunities to the

participants to update their knowledge-base and interact with experts for further collaborative undertakings.

KEY AREAS

Following are the key topics of the workshop:

- Network Security: Modern Attacks, Evasion Techniques and Defenses
- Malicious Code Analysis and Detection
- Information Security Management
- Measuring Security
- Ethical Issues of ICT Security
- Organizational Security
- Hardware and Physical Security
- Operating System Security
- Android/Mobile Systems Security
- Cryptographic Techniques for Network Security
- Biometrics Security
- Web Security
- Social Network Security
- Cloud Security

TARGETED INDIVIDUALS

Young researchers, practitioners, academicians, executives, system administrators, system programmers, and students working in the field of Internet/information security and cryptography are invited to participate in the workshop.

Basic Eligibility Criteria: Graduation in Computer Science/Information Technology/Engineering or related disciplines.

EXPECTED OUTCOMES

The workshop is expected to enable the participants to:

- Understand network protocols, models,

REGISTRATION FORM

Second COMSATS-ISESCO-INIT
International Workshop on

“Internet Security: Enhancing Information Exchange Safeguards”

September 16-20, 2012, Amman, Jordan

Name (as per passport) _____

Designation _____

Institution/Organization _____

Highest Qualification _____

Present Field of Activity _____

Postal Address _____

City _____ Country _____

Passport No. _____

Tel. _____ Fax _____

Email _____

Only for Foreign Participants

■ Boarding & Lodging Required Yes No

■ Travel Grant Required Yes No

Signature _____

Date _____

Last date for registration as a participant is August 31, 2012.