**8th COMSATS**‐**ISESCO-INIT**

**International Workshop on “Internet Security: Enhancing Information Exchange**

**Safeguards”**

**23rd to 27th December 2018**

**Doha, Qatar**

**Program**

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|  | **Day 1 – December 23, 2018 (Sunday)**  |
| **TIME**  | **INAUGURALCEREMONY**  |
| 08:45 – 09:00  | Arrival of Guests and Registration   |
| 09:00 – 09:15  | Welcome Address by the Representative of Qatari National Commission of Education, Culture and Science   |
| 09:15 – 09:30  | Speech of INIT’s Representative   |
| 09:30 – 09:45  | Speech of ISESCO’s Representative   |
| 09:45 – 10:00  | Speech of COMSATS’ Representative   |
| 10:00 – 10:20  | Inaugural Address by Chief Guest  |
| **10:20 – 10:30**  | **Group Photo**   |
|  | **Day 1–December 23, 2018 (Sunday)**  |
|  | **CYBER THREAT INTELLIGENCE & SMART CITIES** **Instructors: Dr. Masoom Alam & Dr. Akber Gardezi**  |
| **TIME**  | **TECHNICAL SESSION**  |
| 10:30 – 11:30  | **Session 1 (by Dr. Masoom Alam):** Introduction to the Techniques used in Cyber Threat Intelligence   |
| 11:30 – 12:30  | **Session 2 (by Dr. Masoom Alam):** Practical demonstrations and practice related to Cyber Threat Intelligence  |

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| **12:30 – 13:00**  | **Tea Break**  |
| 13:00 – 14:00  | **Session 3 (by Dr. Akber Gardezi):** Smart Cities New and Emerging Threats  * Vulnerabilities in Autonomous Vehicles
* AI for BAD!
* The Dark Side of Internet

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|  | **Day 2–December 24, 2018 (Monday)**  |
|  | **ORGANIZATIONAL SECURITY** **Instructor: Dr. Haider Abbas**  |
| **TIME**  | **TECHNICAL SESSION**  |
| 09:00 – 10:30  | **Session 1:** * Cyber Security: A Challenge for every Nation
* How to certify your Organization: Practical Approaches to Organizational Information Security Management
* Cloud Computing Security

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| 10:30 – 12:00 | **Session 2:** * ISO 27001, Information Security Management System, An International Standard
* Risk Assessment –Identification, Risk Calculation Methods and Treatment strategies, Gap Analysis

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| **12:00– 12:30**  | **Tea Break**  |
| 12:30 – 14:00  | **Session 3:**  Practical exercises on:  * Information Security Policy/Procedures Writing
* Information Assets Identifications & Valuation
* Gap Analysis
* Statement of Applicability
* Risk Assessment & Treatment
* Auditing and Certification Process
* Auditing and Evaluation

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| **Day 3–December 25, 2018 (Tuesday)**  |
| **UNDERSTANDING DIGITAL FORENSICS AND HANDS ON MBR/MFT** **Instructor: Mr. Waseem Iqbal**  |
| **TIME**  | **TECHNICAL SESSION**  |
| 09:00 – 10:30   | **Session 1:** Working with Master Boot Record- MBR/VBR/Partition Tables   |
| 10:30 – 12:00 | **Session 2:** Exploring Windows Registry   |
| **12:00 – 12:30**  | **Tea Break**  |
| 12:30 – 14:00 | **Session 3:** * SQL Injection and Mobile Hacking Master File Tables –MFT
* (Scenarios/ Experimentation )

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| **Day 4–December 26, 2018 (Wednesday)**  |
| **EXPLORING HACKING** **Instructor: Mr. Shah Fahd**  |
| **TIME**  | **TECHNICAL SESSION**  |
| 09:00 – 10:30  | **Session 1: Wireless Hacking and Countermeasures** * Security Issues in Wireless Networks
* WEP Cracking
* WPA Cracking
* WPA2 Cracking
* Counter measures

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| 10:30 – 12:00 | **Session 2: Reconnaissance & Scanning** * Scanning using NMAP
* Enumerating open ports and services Nessus Vulnerability Scanner
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| **12:00– 12:30**  | **Tea Break**  |
| 12:30 – 14:00 | **Session 3: Gaining Access & Privilege Escalation/ Password Attacks & Social Engineering** * Introduction to Metasploit Framework
* Exploiting Windows 7 , 8 and 10
* Antivirus bypass Privilege Escalation
* Intercepting http and https passwords
* Dictionary Attacks vs Rainbow tables
* Social Engineering toolkit

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|  | **Day 5–December 27, 2018 (Thursday)**  |
|  | **UNDERSTANDING CYBER THREATS** **Instructor: Prof. Dr. Kashif Kifayat**  |
| **TIME**  | **TECHNICAL SESSION**  |
| 09:00 – 10:30  | **Session 1: Dissecting a Cyber Attack** * Reconnaissance (Recon)
* Scanning
* Gaining access
* Maintaining Access
* Covering Tracks and Hiding

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| 10:30 – 12:00 | **Session 2: Distributed DoS Attacks** * Anatomy of a Sample DDoS Attack
* Evolution of Botnet Configurations and DDoS Attacks
* Mitigation Techniques

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| **12:00 – 12:30**  | **Tea Break**  |
| 12:30 – 13:45 | **Session 3: More Advanced Attack Techniques** * The Concept of Kill Chain• Where we stand?
* Layered Security Approach
* Summing it up

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|  | **Day 5–December 27, 2018 (Thursday)**  |
| **TIME**  | **CLOSING CEREMONY**  |
| 13:45 – 13:50  | Concluding Remarks   |
| 13:50 – 13:55  | Vote of Thanks   |
| 13:55 – 14:00 | Certificate Distribution  |