**8th COMSATS**‐**ISESCO-INIT**

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

**Safeguards”**

**23rd to 27th December 2018**

**Doha, Qatar**

**Program**

|  |  |
| --- | --- |
|  | **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 |

|  |  |
| --- | --- |
| **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 |
|  | **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 |
| 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 |
| **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 |

|  |  |
| --- | --- |
| **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 ) |
| **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 |
| 10:30 – 12:00 | **Session 2: Reconnaissance & Scanning**     * Scanning using NMAP * Enumerating open ports and services Nessus Vulnerability Scanner |

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