

Objectives of the Workshop

Cyber Security has becoming increasingly important in today's networked world and is impacting every aspect of society including finance, healthcare, government, education, arts and entertainment. The objective of this workshop is to teach the basic principles of cyber security from the perspective of providing security awareness and its best practices for the real world.

This course is a combination of theory and hands on. As a computer user, especially one with a connection to the Internet, malicious users on other machines who could be sitting in another continent specially target you. This course will teach you about how you can better secure your data, identify threats, and survive and recover from computer attacks

- Applications of the crypto hash
- Network Security
- DDoS Attacks
- Authentication Protocols
- Transport Layer Security (SSL/TLS)
- Access Control and Firewalls
- Software security
- Worms, viruses, bots, etc.
- Malware protection
- Web application security
- Cloud security
- Intrusion detection and prevention
- Security Tools – Wireshark, Snort, Metasploit, etc.

Topics for brainstorming

The major contents of the programme are:

- Tools and Techniques used by adversaries to gather information and launch attacks
- Virus protection, Secured credit card and bank transactions, Wireless security
- Computer Forensics, Identity theft and protection, Anti-phishing and biometric security
- Case studies from security practices in real-world scenarios

Methodology

In addition to classroom lectures, the programme includes discussions, hands-on sessions, assignments and Ph.D. forum.

Workshop Highlights and Benefits to Participants

- Learn the threats and vulnerabilities in today's digital world
- Understand the basics of Internet & network tools
- Understand tools & techniques used by adversaries to launch intrusions
- Learn to identify Internet fraud & be secured.
- Learn the techniques in network security.
- Learn the design techniques for security.

Target Audience

The program is targeted towards postgraduates, researchers, scholars, faculty members from academic institutes, Industry professionals & consultants.

Resource Persons

Distinguished faculty members of reputed National and International Institutions such as IIT, IIIT, and NIT and experts from Industrial organizations shall be delivering lectures.

Malaviya National Institute of Technology, Jaipur
Department of Computer Science & Engineering

A TEQIP SPONSORED

Faculty Development Programme on

CYBER SECURITY AND ITS CHALLENGES

February 25 to March 1, 2018

Registration Form

Full Name: _____

Designation: _____

Organization: _____

Qualification: _____

Specialization: _____

Mailing Address: _____

Pin Code: _____ Phone(M): _____

(O) _____ Email: _____

Accommodation required? Yes / No

Date: _____

Signature of Participant

About MNIT Jaipur

Malaviya National Institute of Technology, Jaipur (Deemed University) is one of the premier net's, established by Ministry of Human Resource Development (MHRD), Government of India (GOI). The institute, prior known as MREC Jaipur was established in 1963 as a joint venture of the GOI and Government of Rajasthan. Later in 2002, the college was given the status of National Institute of Technology, and on 15 August 2007, proclaimed Institute of National Importance through Act of Parliament. Its campus spreads over 325 acres of lush green area in the central location of Jaipur. It offers undergraduate and postgraduate courses to about 4500 students, in leading fields of engineering, technology, architecture, management, & sciences. Through the internationally renowned faculty, laboratories with state of art equipment and excellent infrastructure, the institute is actively engaged in research, consultancy, and developmental activities.

About Department

The Department of Computer Science and Engineering started functioning in 1994. The Department is recognized for excellence in research, Teaching and Services to the profession. The Department offers Four year courses leading to the Bachelor's Degree and also Post Graduate Program leading to M. Tech. in Computer Science and Engineering. The department offers Ph.D. programs in various specializations like Wireless Sensor Networks, MANET, Network Security, QoS in Wireless Networks, Cloud Computing, Big Data, Real Time Systems, Image Processing etc. Department is equipped with state of the art labs to support the UG, PG and Research Programs and also includes industry standard s/ws and h/ws.

Prerequisites

Applicants must be graduation students of any discipline.

Registration

The participation fee is NIL. No TA/DA will be provided to the participants. Participants have to arrange accommodation by their own. We will provide course material, lunch and refreshments to all participants

Number of Seats

The number of seats is limited to 40 and will be served on first come first serve basis

Duration & Time

5 days X 4 sessions / day

09.30 AM – 05.00 PM

Certificate of Participation

Certificate of participation will be awarded to all participants who actively participate in all sessions and complete the assessment activities during the session

Venue

**Malaviya Sabhagaar,
Prabha Bhavan, MNIT**

Address for Correspondence

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Patron

Prof. Udaykumar R Yaragatti
Director, MNIT Jaipur

Conveners

Dr. Girdhari Singh

Dr. Vijay Laxmi

Course Coordinators

Dr. Pilli Emmanuel Shubhakar

Dr. Ramesh Babu Battula

Dr. Santosh Kumar Vipparthi



Organized by

Department of Computer Science & Engineering
MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY

Jawaharlal Nehru Marg, Jaipur – 302017