



# Technospark<sup>®</sup>

IT SOLUTIONS

*SPARK... ALWAYS THE RIGHT CHOICE*

MSME & AN ISO 9001:2015 CERTIFIED COMPANY

## 2 Days Hands-On Workshop on

# CYBER SECURITY

with an Internship opportunity



The rapid and dramatic advances in Information Technology (IT) in recent years have without question generated tremendous benefits. However, they have created significant and unprecedented risks to operations. Computer security has, in turn, become much more important as all levels of an organization to utilize information systems security measures to avoid data tampering, fraud, disruptions in critical operations, and inappropriate of sensitive information.

After the boom in Networking and Software jobs, the past two years have seen a sharp rise in the field of information security. Cyber Security, Information Security and Ethical Hacking are the latest buzzword in the industry. In the past three years, the percentage of hacking crimes, data thefts, data losses, viruses and other cybercrimes have increased very exponentially.

### **Duration**

❖ 12 Hours / 2 Days

### **Practical: Theory Ratio**

❖ 8 : 2

### **Workshop Objectives**

At the end of this Workshop, participants will be able to:

- Understand, perform and secure themselves from various kinds of Hacking attacks.
- Understand Email attacks and will be able to protect their email accounts as well as social networking accounts from these attacks.
- Understand Web Application Attacks and will be able to patch them to produce a secure web application.
- Understand Security Architecture of Mobile Platforms etc...

### **Eligibility**

- Undergraduate and post graduate students from Computer Science, Information Technology and Electronics. Students from other backgrounds who are passionate about technology must be encouraged to participate.
- All Computer Science, Electronics faculty members of the institution can also participate.

## **Prerequisites**

- ✓ Basic Knowledge of Computers & Internet

## **Infrastructure & Min Participation Required**

- Seminar Hall with Audio-Visual Equipment
- Speaker with Microphone system
- Internet (LAN/Wi-Fi) Connection for live demos
- Minimum 100 participants required

## **TAKE AWAY BENEFITS**

### **Spot Internship**

The participants will be selected based on their performance in the exam conducted at the end of the workshop. They will get an opportunity to work as an intern in our company. They will get an opportunity to work on a live project in our Technospark IT Solutions Lab.

### **Placement Opportunity**

The Best Performer/s in the internship\* will be given an employment opportunity in our company with a CTC of Rs. 3.2 to 4.8 lakhs per annum

### **Tool kit**

Every participant will get tool kit with all the tools used during the workshop along with all the required licence keys.

### **Certification**

Every participant will be given Technospark IT Solutions Certified Security Expert – Level 1 certificate

## Fee Structure

Course	Certification	Duration	Delivery Method	Fee
Level 1	Technospark IT Solutions Certified Security Expert (Level 1)	12 Hours / 2 Days	Instructor Led On Campus Training	<b>600 Rs/-</b> per participant



## COURSE CURRICULUM (LEVEL – 1)

### INTRODUCTION TO CYBER SECURITY

Ethical Hacking
Types and Kinds of Hackers, Phases of Hacking
Types of Ethical Hacking Certifications
Security Triangle
Conclusion

### BASICS OF NETWORKING

Introduction to Networks
Types of Networks
Ports, NAT, IP Addresses, Proxies, VPNs
OSI Layers
TCP, UDP   GET & POST Method
Conclusion

## LOGIN BYPASS

Windows Login Bypass – General & Advanced Methods
Cracking using CMD & Tools
Linux Pass Cracking – General & Advanced
Conclusion

## BASIC ATTACKS AND SECURITY

Basic Phishing, Advanced Phishing and Cloning
Advanced Facebook & Gmail Hacking
IDN Homograph Attack
Fake Emails
Header Analysis
Capturing Passwords with Wireshark
Social Engineering Techniques
Conclusion

## VIRTUALIZATION

Introduction To Virtualization
Installation of VMware/Virtual Box
Configuring OS in Virtual Machine
Conclusion

## MALWARES

Introduction to Malwares – Virus, Worms, Trojans, Botnets, Ransomware
Working of Keyloggers & Advanced Keyloggers
Using Remote Administration Tools (RAT)
Antiviruses and How Do They Work
How to Create, How to Identify & How to Remove Malwares from PC
Conclusion

## DATA RECOVERY

How Data Recovery Works
Using Tools To Recover 100% Complete Data from Hard Disks, Pen Drives & Memory Cards
Securing Our Data
Conclusion

## GOOGLE HACKS

Google for Hacking
Using Various Operators of Google
Shodan Search Engine
Finding Network Webcams, Target Networks and Vulnerable Websites
Conclusion

## WEB APPLICATION ATTACKS

Introduction to the Web Architecture
Security Misconceptions
Theoretical Overview on OWASP Top 10 Web Application Vulnerabilities
SQL Basics
Overview on Cross Site Scripting Vulnerability (XSS)
Session Hijacking
Conclusion

## WIRELESS ATTACKS

Introduction to Wireless Architecture
Types of Wireless Networks
Wireless Standards
Introduction to Kali Linux
WEP & WPA's Hacking using Kali Linux
Conclusion

## STEGANOGRAPHY

Introduction to Steganography
Types of Steganography
Using Steganography Tools
Extract Hidden Files and Text
Conclusion

## MOBILE HACKING

Introduction to Architecture of Various Mobile Operating Systems
VoIP, Advanced VoIP Systems and Calls
Caller ID Spoofing
Methods to Hack Smartphone (Android & iOS)
General & Advanced Methods to Hack WhatsApp
Security Measures
Conclusion

## **CYBER LAWS & SECURITY**

Cyber Laws in India

Online Security Precautions

How to Earn Money Online / Digital Jobs

Conclusion – End of the Session

**~~SAY NO TO PPT's & VIDEO's~~**

**Technospark IT Solutions Gives Training Only via LIVE Demonstrations  
with 100% Complete Hands-on Experience**





# Technospark

## IT SOLUTIONS

### **CORPORATE OFFICE**

Flat no. F.F.A, Mallika Apartments, MG Road, Opp.  
Unlimited showroom Beside Sundaram Honda,  
Vijayawada -520010

### **BRANCH OFFICE**

#### **HYDERABAD**

Flat No: 44, 2nd Floor,  
Opp ISSQUARED, Vittal Rao Nagar,  
Madhapur, Hyderabad-500081

#### **SRIKAKULAM**

Opposite P.S.N.M.H School  
,above Andhra Bank ATM,  
Konna Street Srikakulam 532001

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