



**NGMA in association with MBIT brings to you
"Champ of the Champs" competition.**

About NGMA

NGMA, a MNC is a project of NenoTech Marketing Pvt. Ltd. It aims to lay a strong underpinning for the technical development of our country, by developing an active interest among youth in new technologies such as Ethical Hacking & Information Security.

With the ever increasing requirements of professionals in the field of Ethical Hacking & Information Security, we are all geared up to lay the foundation of the educational workshops on IT security and Ethical hacking.

As network security assumes significance for businesses and investment in security infrastructure grows by the day, the need to validate the knowledge and skills of network security professionals has also grown proportionately. If hacking involves creativity and lateral thinking, then vulnerability testing and security audits will not ensure a foolproof network security of an organization. To ensure that organizations have adequately protected their information assets, they must adopt the approach of 'defense in depth'. In other words, they must penetrate their networks and estimate the security posture for vulnerabilities and exposure.

About Champ of the Champs

Mbit is the world's first mobile P2P Application, used for file sharing, publishing, data sharing, subscribing to channels, and making groups. It envisages to provide P2P/Fileshare based content distribution in a social networking environment to share rich media content such as user generated content (UGC) and advertising content over any mobile network, enable users to create, share, search, subscribe, download and broadcast content with personalized advertisements that are available, embedded in the content.

"Champ of the Champs" is an online competition organized by MBIT and NGMA. This competition will be organized every month. And, every month, MBIT will select top 3 teams. These teams will be participating in Grand Finale of "Champ of the Champs".

Workshop Proposal

NGMA is proposing to organize a workshop on "IT Security and Ethical Hacking" in order to train students about the Champ of champs and also to impart knowledge in the field of IT Security, Security testing and Ethical Hacking.

Introduction

In the present times, where network security assumes utmost importance for businesses around the globe, teaching "Security testing and hacking" as a legitimate means of training students in how to protect a future employer's data assets has been introduced



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into courses with increasing frequency NGMA comes up with a short term professional workshops designed for young engineering minds on IT security and Ethical hacking.

The College or student participating in the workshop will get the hands on exposure of how to test an application using various testing techniques including ethical hacking.

Course Content

Part O>Basics of testing and IT Security

- What is IT Security?
 - Importance of IT security
 - Software Testing
 - Writing a test plan for desktop and web applications
 - How do we manage bugs?

Part I>Basics of Internet and Networking

- What is a Network?
- What is Internet?
- What is a Server?
- What is an IP Address?
- What is a domain name?

PART II – Ethics

- Why is Security needed?
- What is ethical hacking?
- Ethical Hacker vs Malicious Hacker
- Types of Hackers
- Building an approach for ethical hacking

PART III – Google Hacking

- Effective Googling
- What is Google?
- How does Google work?
- Google Tricks
- Basic Hacks
- Google Calculator
- Google Dictionary
- Specialty Search Functions
- Google News Alerts
- Google Book Search
- Localized search
- Movie search
- Google Tools
- Google Code
- • How can Google hacking help an ethical hacker?
- Preventing Google Crawls



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- Practical Class: Case Studies and Quiz

PART IV –Footprinting and Scanning

- What is Scanning?
- Objectives of Scanning
- Practical Class
- Scanning Tools to be used:
 - Nmap
 - Null Scan
 - Firewalk

PART V-Window Hacking And System Performance

- Retrieving Passwords
- Improving System Performance
- Improving Browser Performance

PART VI – Email Hacking

- How does Email work?
- Tracing an Email
- Spam
 - - What is Spamming?
 - Methods of Prevention
 - Laws about Spamming
- Fake Emails
- Detecting Fake Emails

Part VII – Trojans AND Viruses

- Definition
- Legend
- Difference b/w Trojan, virus and worms
- Working of Trojans

PART VIII-Phishing And Scripting

Using Proxy Sites

- Hacking password via fishing
 - Hacking password via Greasy Monkey Scripts
 - Hacking password via Selenium Scripts
 - Hacking Password Using Redirector

Practical Exercise

Part VIII – SQL Injection And Cross Browser Scripting

- Defining SQL
- Understanding web application



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- Using SQL to login via middleware language
 - Checking SQL Injection vulnerability
 - URL and forms
 - SQL query SELECT, DROP etc.
 - SQL cheat sheets
 - Using source changes to bypass client side validation
 - PHP magic quotes
 - Using SQL injection tools
 - Importance of Server side validation
- Practical Exercise

PART IX-Steganography

- How Data Is Hidden In Sounds:

- How Data Is Hidden In Images

- Revealing Hidden Data

Part X: Software/web application and ethical hacking

- How knowledge of ethical hacking can be applied in IT Security testing
- IT security- beyond ethical hacking
- Testing of web applications
- Writing a test plan for web applications and finding bugs
- Manual and automation testing

Part XI: Software Testing

- SDLC cycle of software development
- Agile methodology
- Types of testing and their test plans under agile methodology of software development
- Manual and automation testing

Course Includes:

- Certificate to every Participant by NGMA and MBIT
- Participation in Champ of the Champs
- Participate in Champ of the Champs for 3 months and become a certified Security Tester by Vassoft, a brand of Himenviro Fugi Singapore Pvt. Ltd.

Duration of the Module:

Number of Days	2
Total Hours	15 Hrs



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Some FAQs

Q. What is it about?

This workshop is all about knowledge sharing and training students so that they can pursue their career in Security testing and Ethical Hacking. The workshop primarily aims to provide all the basic tools and training necessary for software testing which includes Ethical hacking as one of its part.

Q. What are the contents of the workshop?

Please refer to the other document attached. It has all the topics and activities that will be done in the workshop.

Q. What is the duration of workshop?

15 study hours split in 2 days.

Q. What are the Eligibility/pre requisites?

There are NO pre-requisites for the workshop. The workshop teaches everything from basics. Any college student can participate.

Q. How I will become the certified tester by Vassoft

Participants who will participate in Champ of the Champs for 3 consecutive months, will be provided with a certificate of Certified security tester by Vassoft.

Q. Where I can find details about Champ of the Champs?

You can find more details about it at www.nextgma.com or www.mbit.co.in

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