# S.I.W.S.

## N. R. SWAMY COLLEGE OF COMMERCE & ECONOMICS
### AND
## SMT. THIRUMALAI COLLEGE OF SCIENCE

Plot No. 337, Sewri - Wadala Estate,
Major R. Parameshwaran Marg, Wadala, Mumbai - 400 031

### Short Term Certification Course on
### 'Cyber Security and Ethical Hacking'
### In Collaboration with
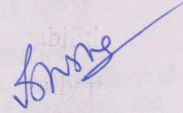### Institute for Design of Electrical Measuring Instruments

12th December ,2019

The Department of Computer Science in collaboration with IDEMI, Mumbai (Under Ministry of MSME, Govt of India) organized a Short Term Certification Course on 'Cyber Security and Ethical Hacking' from 2nd December to 11th December, 2019. Hacking can be defined as to gain unauthorized access to any computer system and performing malicious activities. After getting access to a system, the hacker may delete system files and also steal sensitive information. Hacking done without permission is illegal whereas hacking done with permission comes under Ethical Hacking and is done to find out vulnerabilities in one's computer system. Ethical hackers are often hired by renowned software companies to hack into their system/servers to find vulnerabilities and weak endpoints so that they can be fixed. Every software company especially the renowned ones follow this practice to take precautionary measures against legitimate hackers who have malicious intent.

## Objective

- Plan a vulnerability assessment and penetration test for a network.
- Execute a penetration test using standard hacking tools in an ethical manner.
- Report on the strengths and vulnerabilities of the tested network.
- Identify legal and ethical issues related to vulnerability and penetration testing.

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## Syllabus

- Cyber Ethics-Hacking Introduction
- Information Gathering 1
- Information Gathering 2
- Scanning 1
- Scanning 2
- Google Hacking Database
- Virus, Worms – Virus Analysis
- Trojans & Backdoors
- Sniffers & key loggers
- Social Engineering
- Email, DNS, IP spoofing
- Honeypots
- System Hacking & Security
- Live demonstration of KALI, LINUX, Hacking, Phishing, Sniffing, Firewall, Networking and accessing Android devices.
- Website Hacking & Security
- Mobile & Wireless Security

## Resource Person

Mr.Sourabh Patil was the Resource Person for the session who was doing Cyber security Research and as well is an Ethical Hacker. Competent and skilled IT & Web Security person. Apart from this, have a passion and diligence for hacking, finding new bugs.

## Job Opportunities

- Ethical Hacker
- Forensic Investigator
- Penetration Tester
- Intrusion Analyst
- Technical person in the area of network security

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# Report

Cyber Security and Ethical Hacking short term course was conducted by IDEMI (Institute for Design of Electrical Measuring Instruments), a Govt of India Organization from 2nd December to 11th December, 2019. Twelve students and one faculty member Ms.Monika Sethurajan participated in the short term course and Certificates were awarded to them by IDEMI in association with S.I.W.S College
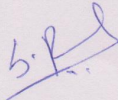
**Student Participation:** The number of students participated were 30.
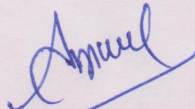
### Examination Process and Passing Criteria

The students who have attended 90% of the class were eligible to appear for the exam. The Practical and Viva exam was conducted and students above 50% were considered under the Passing Criteria.
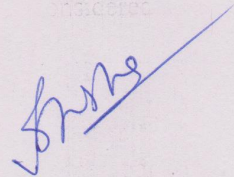
### OUTCOME

- The participants were able to understand the principles of Cyber Security and their tools.
- Learners were able to understand threats available on the internet.
- To understand criminal activities using the internet.
- Learners were aware of protecting their data over the internet.

**Course Convener**            **Vice Principal**                                **Principal**

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