**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR**

**Department of Computer Science & Engineering**

**PROPOSAL FOR ORGANIZING**

**Ethical Hacking Workshop**

(March 12-13, 2016)

1. **Title of Course :** Ethical Hacking
2. **Duration:** 2 days
3. **Name of Coordinators:** Dr. Naveen Chauhan, Assistant Professor, CSED

Er. Rajeev Kumar, Assistant Professor, CSED

1. **Expected Number of Participants**: 200
2. **Pre-requisite**: Basic Knowledge of Linux OS & Internet
3. **Aim & Objectives of Course**

The workshop will train the participants in every domain related to Cyber Security, that too ethically. The focus of the workshop is to teach the participants about how to protect themselves from the menace of hacking. During the workshop, the primary aim is to introduce them to the current popular attacks and explain the techniques to counter them. It will cover concepts and working of the Attacks. Development of own tools and scripts will also be taught. In this workshop the participants will gain the knowledge of Email Forging and Cyber Laws.

The other focus of the workshop is to enable the participants to build up future systems. It includes making them aware of the current shortcomings which give rise to bad security systems. An overview of what constitutes an 'ideal secure system' will be given. This course would equip students to counter the potential attacks. Also, the aim would be to impart technical knowledge of how to make the Internet transactions safe and secure.

1. **Expected Outcome**

The participants will learn about latest cyber security technologies. They would know about how to protect themselves from the menace of cyber attack. They will know about how to counter the popular attacks. They will gain the knowledge of Networking, Email Forging, and Cyber Laws. By this they would be able to build an ideal secure future systems.

1. **Course Schedule (March 12-13,2016)**

This course is devoted to cover various technical issues related to cyber security, ethical hacking, and protection from potential cyber attacks, shortcomings of present security systems. Topics of interest include, but are not limited to:

1. Ethics and Hacking [1½ Hours]
2. Windows Hacking & Steganography [1½ Hours]
3. Basics of Internet, Networking and Hacking [1½ Hours]
4. SQL Injection Using DVWA [1½ Hours]
5. Man in the Middle Attack(MITM) [1½ Hours]
6. Phishing, Trojan, Worms & Viruses [1½ Hours]
7. Email Forging and Cyber Law [1½ Hours]
8. Wi-Fi Hacking(Aircrack-NG, Encryption methods, WEP, WPA,WPA2) [1½ Hours]

**Maximum Hours: 12 Hours**

1. **Resource Persons**

**External Experts**

1. Mr. Sachin Singh Rana, Certified Ethical Hacker, Aptron Solutions Pvt. Ltd.
2. Mr. Aman Gupta, Certified Ethical Hacker, Aptron Solutions Pvt. Ltd.
3. Mr. Jyotiradiya, Ethical Hacking Engineer, Aptron Solutions Pvt. Ltd.
4. Mr. Navdeep Singh, Information Security Researcher & Assistant, Aptron Solutions Pvt. Ltd.
5. **Comprehensive Detail of Expenditure**
6. Lecture Rs. 40,000/-
7. TA/DA to Experts Rs. 15,000/-
8. Refreshments Rs. 12,000/
9. Hospitality Rs. 1500/-
10. Flex + Posters + Miscellaneous Rs. 4000/-

**Total Rs. 72,500/-**

1. **Source of Funding**: TEQIP-II, NIT Hamirpur
2. **Collaboration**: Aptron Solution Pvt. Ltd. , Noida (U.P.)-201301
3. **Organizing Committee**
4. Patron: Shri Senapathy (Kris) Gopalakrishnan, Chairman BoG, NITH
5. Chairman: Prof. Rajnish Shrivastava, Director, NITH
6. Co-Chairman: Dr. Narottam Chand, Head, CSED, NITH
7. (a) Coordinator: Dr. Naveen Chauhan, Assistant Professor, CSED

(b) Co-Coordinator: Er. Rajeev Kumar, Assistant Professor, CSED

5. Student Coordinators: a.)Arun Kumar(13519) b.)Ajay Negi(13517)

**Proposal Submitted by:**

Dr. Naveen Chauhan

Faculty Coordinator

Team .EXE

CSED, NIT Hamirpur

Er. Rajeev Kumar

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CSED, NIT Hamirpur

Dr. Surender Soni

Faculty Coordinator

NIMBUS 2016

NIT Hamirpur

**Encl:** Information Brochure for Ethical Hacking Workshop