



# Self-Sponsored Workshop on Cyber Security: Basics and Emerging Trends

organized by

Network Security and Cryptography Lab, IIIT Allahabad

(11<sup>th</sup> to 15<sup>th</sup> December 2021)

URL: <https://security.iiita.ac.in/cyber-workshop/>

Indian Institute of Information Technology, Allahabad:

Mode of the Programme: Virtual

## About the Programme

The physical world is gradually changing as Cyber world to achieve quick and cost saving communication and actions. The global Covid'19 pandemic has brought a huge rise in Cyber connectivity such as work from home, shopping online, virtual classroom, etc. Although the Cyber/digital communication is an efficient mode, there are drawbacks and the significant one is the Cyber Attack. This is a major threat not only to the individual and organization. A Cyber security firm has reported that 400 percent increase in attempted hacks since February 2020. Hence, it is important to bring awareness among researchers & academicians and train manpower on Cyber Security to identify various vulnerabilities, develop cyber security centric applications and do innovative research work, projects, and create knowledge base.

## Objectives of the Programme

- To disseminate of the knowledge and need of Cyber Security among students, researchers and academicians.
- To provide conceptual understanding of various Cyber security techniques and its utilization.
- To train manpower in the field of Cyber Security to fulfill the growing necessity to secure the individual, organization and the Nation.
- To discuss the current progress of the Cyber Security research in India and across the world.

## About IIIT-Allahabad and NSC lab

The institution was founded in 1999, and in the following year received university status and the right to award its own degrees. In 2014, the IIIT Act was passed, under which IIITA and four other Institutes of Information Technology funded by the Ministry of Human Resource Development were classed as Institutes of National Importance. Network Security & Cryptography (NSC) Laboratory under the Department of Information Technology, IIIT-Allahabad is established with the vision to solve the cyber security and privacy challenges faced by the individual, Government and Non-Government organization & industries. Various research areas in the field of Network Security and Cryptography is identified and research is initiated to fulfill the security requirements. NSC lab is created to provide necessary infrastructure to the students of IIIT-Allahabad to carry out their research in the field of security and cryptography.

## Registration Process

Interested can register on or before 8<sup>th</sup> December 2021 by sending the email to [sverma@iiita.ac.in](mailto:sverma@iiita.ac.in)

## Participants

- Faculty
- Students
- Researchers.

## Speakers

Experts from IIIT - Allahabad

## Topics to be Covered

- Introduction to Cyber Security
- Cryptography
- Web Security
- IoT Security
- Blockchain Basics
- Role of Machine Learning in Cyber Security
- Security Risks in Machine Learning
- Critical Infrastructure Security

## Registration fee

- IIIT-A Participants - ₹500
- Other Participants - ₹1180 (including GST)

Registration Fee is only for training

## Co-Ordinator and Main Teacher

Prof. Shekhar Verma, IIIT-Allahabad

## Correspondence

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