

### Course Contents

- Foundations of Cyber Security Concepts
- Information Security: Cryptography vs Cryptanalysis
- Infrastructure and Network Security
- Cyber Security Vulnerabilities
- Cloud Networking and Security
- Cyber Security Challenges and approaches in IoT
- Intrusion Detection Techniques in Sensor Networks
- Cyber Security implications in Mobile Communication
- AI and Cyber Security
- Research Directions

### Scope of the FDP Programme

Sophisticated cyberattacks are consistently being launched in the internet domain that seeks unauthorized entry into sensitive health information, personal identity database, intellectual data, government data repository, industrial information and so on. Cybersecurity in the digitized modern society should help the users to maintain the data privacy without compromising their addiction towards social engineering. The composition of technologies, practices and processes that are developed to defend the data, programs, networks and devices amid attacks, unauthorized access or damage is referred to as cybersecurity. Phishing, malware, ransomware and social engineering attacks are widely gaining popularity and hence ethical hacking can be a solution to identify these vulnerabilities prior to exploitation. Currently, the most cyberattacked sectors include healthcare, manufacturing, financial services, government and transportation. This online FDP course will focus on various types of cyberattacks, cryptography, analysis of cyber threats and its countermeasures along with future research direction in the domain of information security.

### Eligibility

The Programme is open to the Faculty of AICTE approved Institutions, Research Scholars, PG Scholars, Participants from Industry those who are interested in the field of Cyber Security irrespective of discipline.

### Registration

Online Registration through ATAL website  
<https://atalacademy.aicte-india.org/login>  
**Application Number: 1614617707**

### Certification

The Certificates shall be issued by AICTE Training and Learning (ATAL) academy to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test conducted at the end of the FDP.

### Important Dates

Last date (Online Registration): 01-10-2021  
Selection Intimation by E-mail: 01-10-2021  
Duration: 04-10-2021 to 08-10-2021

### Coordinator

**Dr. B. Shakila**  
Assistant Professor  
Department of Electrical and Electronics Engineering  
NIT Nagaland  
Mobile – 9791624896  
Email – shakila@nitnagaland.ac.in

## AICTE Training and Learning (ATAL) Academy



### Five Days Online Faculty Development Programme (FDP)

on

### Cyber Security

4<sup>th</sup> - 8<sup>th</sup> October 2021

### Patron

**Dr. S. Venugopal**  
Director, NIT Nagaland

### Conveners

**Dr. Dipu Sarkar (Asst. Prof & HoD / EEE)**  
**Dr. R. Kumar (Professor / EIE)**  
**Dr. M. Prakash (Asst. Prof / EEE)**

### Coordinator Dr. B. Shakila

Assistant Professor  
Electrical and Electronics Engineering



### Organized by

Department of Electrical & Electronics Engineering  
**National Institute of Technology Nagaland**  
Chumukedima, Dimapur, Nagaland-797103  
**Website: [www.nitnagaland.ac.in](http://www.nitnagaland.ac.in)**



### About the Institute

National Institute of Technology Nagaland (NIT Nagaland) is a higher education technology institute located at Dimapur in Nagaland and was set up by the Government of India in 2009, as part of the Eleventh Five-Year Plan (2007–2012) for imparting technical education in the state of Nagaland. NIT Nagaland is located at Chumukedima, about 14 kilometers from Dimapur, Nagaland. The campus is well connected through proper means of transport and communication. At present there are six undergraduate courses namely Electrical and Electronics Engineering, Electronics and Communication Engineering, Computer Science and Engineering, Civil Engineering, Mechanical Engineering & Electronics and Instrumentation Engineering and five postgraduate courses namely M.Tech in Power System Engineering, VLSI Systems, Computer Science and Engineering, Electronics and Communication Engineering & M.Sc. in Physics, inclusive of PhD studies.

### ATAL Academy

AICTE Training and Learning (ATAL) Academy is established with the vision “To empower faculty to achieve goals of Higher Education such as access, equity and quality”. AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understand that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of faculties and students to make them more employable to acquire global competencies.

### About the Department

The Department of Electrical and Electronics Engineering, NIT Nagaland aims to achieve excellence by establishing well equipped laboratories in the core areas of Electrical Engineering like Electrical Machines, Power Electronics, Power Systems and Control Systems. The department’s first batch of B. Tech graduates passed out in the year 2014. The students here work on creative application projects with innovative design. The faculty members of the department have utmost responsibility in teaching the fundamentals of Electrical Engineering to achieve high standards of education and in inculcating research interests. Research is focused in the areas of Smart Electric Grids, Distributed Generation, Application of Soft Computational Techniques in Power Systems and Industrial Drives. The department offers Under Graduate, Post Graduate and PhD programmes.

### Resource Person

Resource Persons from reputed companies like Microsoft (USA), PriceWaterHouseCoopers (USA), Pensando Systems (USA), Plume Design Inc R&D (USA) and Academicians with rich industrial and teaching experience were invited to handle the sessions.

### Organizing Committee

Dr. Dushmanta Kumar Das, Asst. Prof / EEE

Dr. D. Ganga, Asst. Prof / EEE

Dr. Swaraj Baneerje, Asst. Prof / EEE

### Contact Us

**For any Clarifications, Please Contact:**

**Dr. B. Shakila**

FDP Coordinator

Assistant Professor

Department of Electrical and Electronics Engineering

National Institute of Technology Nagaland

Chumukedima, Dimapur, Nagaland.

Mobile – 9791624896

Email – shakila@nitnagaland.ac.in