

### Target participants:

Faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats\Technicians Participants from Industry etc.) and staff of host institutions are eligible to apply for the FDP.

**Registration Fee:** Nil

### Registration link:

<https://www.aicte-india.org/atal> Or  
<https://atalacademy.aicte-india.org/signup>

**Number of seats:** Limited to maximum 200. Participants are selected by organizers on first come first serve basis. All the participants should have Gmail account.

### Event Details:

All the sessions will be conducted through online platform. The meeting links will be sent to the selected participants through WhatsApp\email. There will be an Inaugural Ceremony, 13 Technical sessions and one Fitness session, online test\quiz and a valedictory. An online test will be conducted by the coordinator at the end of the program.

### Resource Persons

Academic experts are identified as Resource persons from premier institutions\Universities, Like: IITs\NITs\IIITs\Central universities.

### Certification:

E-Certificates will be issued by AICTE Training and Learning (ATAL) academy to participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

### Patron:

Prof. Pinakeswar Mahanta  
Director, NIT Arunachal Pradesh

### Coordinator:

**Dr. Subhasish Banerjee**  
Email : [subhasish@nitap.ac.in](mailto:subhasish@nitap.ac.in)  
Mobile : 9434985900

### Co-Coordinator:

**Dr. Manash Pratim Dutta**  
Email : [manashpdutta@nitap.ac.in](mailto:manashpdutta@nitap.ac.in)  
Mobile : 9800098563

### Organizer:

Dr. Swarnendu Kumar Chakraborty  
Dr. Rajat Subhra Goswami  
Dr. Koj Sambyo  
Dr. Achyuth Sarkar  
Dr. Deepak Gupta  
Dr. Biri Arun  
Mr. Sunit Nandi

Last date for online Registration	04 <sup>th</sup> Dec, 2020
Date of intimation to the selected candidates (by Email or phone)	05 <sup>th</sup> Dec, 2020
Confirmation from participants (by Email/Phone)	05, Dec, 2020

## A One Week Faculty Development Programme (FDP) On “Cyber Security”

07 - 11<sup>th</sup> December, 2020

### SPONSORS



### Announcement Brochure

#### Program Coordinator

**Dr. Subhasish Banerjee**  
Asst. Professor, CSE  
Department

#### Organized by



Department of Computer Sc. & Engineering  
**National Institute of Technology**  
**Arunachal Pradesh**

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## 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 understands 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 students to make them more employable to acquire global competencies.

## About the Institution

The National Institute of Technology, Arunachal Pradesh was inaugurated on 18th August, 2010 as a member of a group of ten new NITs. These new NITs were established as centers of excellence in technical education to combat the growing need of technological professionals in India as well as in the World. The Institute has been through many trials since its establishment in 2010; but ultimately has triumphed over all challenges and is thriving today with more than 10000 students on roll and many distinguished members of faculty as well as a good many numbers of competent administrative personnel. The vision is to impart quality technical education with strong underpinning of sound knowledge in the domain. Our approach is interactive, informative, innovative and quintessentially holistic. Our main goal is to produce imaginative entrepreneurs, technology leaders of the new millennium and researchers with a profound sense of humanistic and ethical values.

## About the organizing Department

The Department of Computer Science & Engineering was established right from the inception of the Institute in 2010. The Department offers a 4-year degree program (B. Tech) in Computer Science & Engineering with an annual intake of Fifty (50) students. The department also runs the Post Graduate (M. Tech) programme in Computer Science and Engineering from 2015 with an annual intake of 20 each. The department also started Ph. D Programme from 2012.

## About Arunachal Pradesh

If someone is seeking to step into a world of extraordinary beauty and discover experiences found nowhere else on earth, Arunachal Pradesh is the right place to step in. The state is inhabited by 26 major tribes and over 100 sub-tribes. Over 500 varieties of orchids are found here. Arunachal Pradesh is also known as the “Land of the Rising Sun”. Land of the Dawn-Lit Mountains is the sobriquet for the state & also known as the Orchid State of India or the Paradise of the Botanists. Geographically, it is the largest of the North-eastern states known as the Seven Sister States.

## About AICTE

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 e.g. SWAYAM, MOOCs, Start-up Initiatives, Prime Minister Kaushal Vikas Yojana (PMKVY), Sansad Adarsh Gram Yojana (SAGY), Swachh Bharat\Unnat Bharat Abhiyan, Yoga Activities etc. There is an urgent need to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines. It was felt that Training with latest tools and technologies is vital to keeping an institute competitive and more productive. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies. We also need to transform them to harmonize with society and make them good citizens of the country.

## Course Objectives:

This one week Faculty Development Program provides a platform for teachers/faculty to equip themselves with the necessary knowledge and pedagogical techniques in the domain of Teaching and learning. This program also focuses on exploring various opportunities and challenges of the said context.

In teaching new technologies are adapting to bring change in existing system for fulfillment of predetermined educational objectives. Earlier books were only source of instruction, individualized learning and Individualized teaching. Today the teaching and learning methods have expanded to include information and communication technology (ICT) can make the teaching learning process more effective and efficient if utilized.

## Tentative Topics to be covered

1. Introduction and Classical Cryptography
2. Modern Symmetric Block Cryptosystem
3. Introduction to Public Key Cryptography
4. Modern Encryptions Techniques
5. Homomorphic Cryptography
6. Quantum Cryptography
7. Email Security
8. Transport Level Security
9. Network Security
10. Website Security and Cyber Law.
11. Wireless Network Security
12. Mobile Security and Cloud Security
13. Deception – Honeypots & HoneyNet
14. Etc...

Time/Day	9.45 to 10 AM	10.00 to 11.30AM	12.00 to 01.30PM	02.30 to 4.00 PM
Monday	Inauguration	Introduction and classical Cryptography	Modern Symmetric Block Cryptosystem	Introduction to Public Key Cryptography
Tuesday		Modern Encryptions Techniques	Homomorphic Cryptography	Quantum Cryptography
Wednesday		Email Security	Transport Level Security	Network Security
Thursday		Website Security and Cyber Law.	Wireless Network Security	Mobile Security and Cloud Security
Friday		Deception - Honeypots, HoneyNet	Human Values, Stress Management	Online Test