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Contact Details

Dr. Shyamapada Mukherjee

Mobile: 9434663383

Email : shyama@cse.nits.ac.in

Registration Details

There is no registration fee. Interested candidates can register (on or before 15.08.2021).

1. Visit <https://atalacademy.aicte-india.org/signup>

2. Register as a participant → Fill your details

3. Select Workshop: Select State → Assam; Select Month → August; Select Thrust Area → Thrust Areas ; Select Mode → Online Mode

4. Select FDP No. 1614919668 : Internet of Things

Selection

The seats are limited to 200 candidates on a first come first serve basis. The intimation regarding selection will be sent to the candidates by email.

Important Dates

– **Last date (Online Registration):** 15.08.2021

– **Selection list by E-mail:** 17.08.2021

– **Program Dates:** 23.08.2021 to 27.08.2021

Certificate

The Certificates shall be issued 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 online FDP.

Eligibility of Participation

The faculty members of the AICTE approved institutions, research scholars, participants from Government Sector, Industry.

One Week ATAL Faculty Development Program

On

**A Blend of IoT, Cyber Security and
Blockchain**

(BICSB-2021)

(ONLINE MODE)

23rd to 27th August 2021



Coordinators

Dr. Shyamapada Mukherjee
Assistant Professor
CSE, NIT Silchar

Dr. Saroj Kumar Biswas
Assistant Professor
CSE, NIT Silchar

Organized by

**Department of Computer Science and
Engineering National Institute of Technology
Silchar, Assam-788010, India
Website::: <http://www.nits.ac.in>**

About the Institute

The National Institute of Technology (NIT) Silchar, an Institute of National Importance under the NIT Act was established in 1967 as Regional Engineering College (REC) Silchar in Assam. In year 2002, it was upgraded to the status of an NIT from REC. The NIT Silchar is situated on the banks of river Barak and on a sprawling campus spread over 600 acres of land on the outskirts of Silchar. The NIT Silchar has achieved 9th position among NITs, 46th in Engineering institutions and 94th in overall category in NIRF 2020 ranking.

About the Department

The Department of Computer Science and Engineering was established in 1987 and currently offers a four year B.Tech. program in Computer Science Engineering, M.Tech. in Computer Science Engineering and Ph.D. in the related areas.

About AICTE

All India Council for Technical Education (AICTE) was set up in November 1945 as a national-level Apex Advisory Body to conduct a survey on the facilities available for technical education and to promote development in the country in a coordinated and integrated manner. AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Education. 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.

Course Outline

- a) Basics of Internet of Things
- b) Communication technologies for IoT
- c) Sensors
- d) Case Studies on IoT
- e) Security for IoT devices
- f) Basics of Cyber-attacks and Preventions
- g) Basics of Blockchain
- h) Blockchain Security
- i) Case Studies on Blockchain
- j) Recent trends of IoT
- k) IoT Challenges
- l) Cyber Security and Challenges

Learning Outcome

At the end of this FDP, the participants will be able to :

- able to understand the application areas of IOT
- able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks
- able to understand building blocks of Internet of Things and characteristics
- able to develop skills in cyber security, networks and their management
- able to develop knowledge and understanding of cyber security and network principles as applied in cyber and physical environments
- able to develop policies and procedures to manage enterprise security risks.
- able to understand what Blockchain is and why it is used
- able to explain the different components involved within Blockchain

Resource Persons

Tentative Speakers:

- 1) Padma Shri Dr. Prahlada Ramarao S-VYASA
- 2) Prof. Sudip Misra IIT Kharagpur
- 3) Prof. Manas Khatua IIT Guwahati
- 4) Prof. Ashok Kumar Das IIIT Hyderabad
- 5) Prof. Ayon Chakraborty IIT Madras
- 6) Prof. Sandip Chakraborty IIT Kharagpur
- 7) Prof. Prasenjit Chanak IIT BHU
- 8) Prof. Debdeep Mukhopadhyay IIT Kharagpur
- 9) Prof. Peddoju Sateesh Kumar IIT Roorkee
- 10) Mr. Agnelo Marques Mphasis
- 11) Prof. Vireshwar Kumar IIT Delhi
- 12) Prof. R K Shyamasundar IIT Bombay
- 13) Mr. Krishna Sastry Pendyala, ED, PwC India



**National Institute of Technology Silchar
Cachar, Assam.**

Pin Code: 788010.

Phone No.: 03842-242273 / 03842-224879

Fax: 03842-224797