

ONE WEEK SHORT TERM COURSE

ON

Concepts of Cryptographic Engineering (February 19-23, 2018)



REGISTRATION FORM

1. Name (Block Letters) _____

2. Educational Qualification: _____

3. Designation: _____

4. Name of the institute: _____

5. Address for Communication: _____

6. E-mail: _____

7. Phone/Mobile: _____

8. D.D No.: _____ Date: _____

Bank name: _____

Amount (Rs.) _____

(The DD must be drawn in favor of, "**Director,
NIT Patna**" payable at **Patna**.)

Date:

Signature:

PATRON

Prof. (Dr.) P. K. Jain
Director, NIT Patna



Course Committee:

1. Dr. Prabhat Kumar, Dept. of CSE
2. Dr. M.T.U. Haider, Dept. of CSE
3. Dr. J.P. Singh, Dept. of CSE
4. Dr. Ditipriya Sinha, Dept. of CSE
5. Dr. Dinesh Dash, Dept. of CSE
6. Dr. Suddhasil De, Dept. of CSE

Course Registration Fee:

Faculty	: Rs. 1000.00
Research Scholars	: Rs. 500.00
Industry Persons	: Rs. 2000.00
UG/PG Students	: Rs. 300.00

(Last date: 15-02-2018)

Course Registration fee includes Registration kit, Lunch, Tea and a Course Completion Certificate.

The application should be addressed to:
Dr. Kakali Chatterjee (kakali@nitp.ac.in)
Department of CSE
National Institute of Technology Patna
Ashok Rajpath, Patna 800005, Bihar,
India

Who Can Participate:

Faculty members of any department from autonomous institute, AICTE/UGC affiliated colleges/universities, Research Scholars and participants from Industry are eligible to participate in this STC .

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Coordinator

Dr. Kakali Chatterjee
Department of CSE, NIT Patna

Principal Investigator

Dr. M. P. Singh
Department of CSE, NIT Patna

Supported by

Information Security Education & Awareness
(ISEA) Project (Phase-II) of
Ministry of Communications & information
Technology Government of India

Organized by

Department of Computer Sc. & Engineering
National Institute of Technology Patna
Patna- 800005 (India).

www.nitp.ac.in

Course Objective:

This STC is essential for enhancing the vision of faculty members and research scholars by exposing them to the new development taking place in cryptographic engineering. The main objective of this STC is to enrich the faculty knowledge and will provide excellent opportunity to exchange ideas on the topic of importance along with thought provoking technical sessions. The foundation of cryptographic engineering helps in understanding the current research areas and problems in different field of data Security.

Cryptographic Engineering's goal is to provide unbiased security evaluations and expert witness testimony. Cryptography is typically applied when trying to ensure data confidentiality, to authenticate people or devices, or to verify data integrity in risky environments. It encompasses mathematics (algebra, finite groups, rings, and fields), computer engineering (hardware design, ASIC, embedded systems, FPGAs) and computer science (algorithms, complexity theory, software design). The security and privacy of the information needs to be addressed at all levels from the individual user to an organization and to that of the government. India lacks professional manpower to overcome this security threats. Realizing the important of cryptographic engineering as one of the focused area, Department of Information Technology under Ministry of Communications & Information Technology, Government of India started the Information Security Education & Awareness (ISEA) Project. NIT Patna is one of the participating institute of ISEA project.



Resource Person:

- Prof. (Dr.) Aditya Bagchi
Ex-Professor, ISI Kolkata
- Prof. (Dr.) Atal Chaudhary
Professor, Jadavpur University
- Prof. (Dr.) Amlan Chakrabarti
Professor and Director, AKCSIT
- Dr. Somanath Tripathy
CSE Dept, IIT Patna
- Dr. Somitra Kumar Sanadhya
CSE Dept, IIT Ropar

And many more faculties from IITs, NITs, ISI, and IISC Bangalore.

Course Contents:

- Cryptographic Algorithms
- Privacy and Authentication
- Trust Management
- Wireless Network Security
- Data and System Integrity
- Secure Cloud Computing
- Security and Privacy in Mobile Systems
- Intrusion Detection Systems using Machine Learning
- Block Chaining (Bitcoin)
- Multimodal Biometric technique
- Secure Multiparty Computation

About NIT Patna:

National Institute of Technology Patna is the 18th National Institute of Technology created by the Ministry of H.R.D. Government of India after rechristening the erstwhile Bihar College of Engineering Patna on 28. 01. 2004. The institute has highly qualified faculty of higher calibre in various disciplines.

Institute offers B.Tech, M.Tech & Ph.D. programmes in respective field of Engineering, Sciences and Technology with well-equipped laboratories.

The department of Computer Science and Engineering offers B.Tech (CSE), B.Tech (IT), M.Tech (CSE), M.Tech (IT) and Ph.D. programs in various computer science related subjects.

Accommodation:

Due to massive renovation work going on in NIT Patna. We will not be able to provide any accommodation in the campus. The participants have to make their own arrangement.

How to Reach:

The institute campus is 8 km from the Patna Junction railway station, 15 km from the Jai Prakash Narayan International airport and some 200 m inside the NIT more off Ashok Rajpath. One can reach there using the shared autos from South East Gandhi Maidan (Kargil Chowk) is easily accessible from any part of the city.