

**Online Faculty Development Programme on
Multimedia and Security
16-20 December, 2020**

Organized by



**Department for Computer Science and Engineering,
NIT Patna**

Sponsored by

ISEA project, Phase-II, MeitY, Government of India

Principal Coordinator

Dr. M. P. Singh, NIT Patna

Joint Coordinators

Dr. Shyam Singh Rajput, NIT Patna

Dr. Bhaskar Mondal, NIT Patna

Convener

Dr. Amit Kumar Singh, NIT Patna

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 imparts high level education training, research and development in science, engineering technology and humanities along with high quality education and values at UG, PG and Ph.D. level. At present, the Institute offers courses in six major technical disciplines viz. Architecture, Civil Engineering, Computer Science & Engg., Electrical Engg., Electronics & Communication Engg. and Mechanical Engg. It also consists of well-established departments of Physics, Chemistry, Mathematics and Humanities and Social Sciences.

About CSE Department, NIT Patna

The Department of Computer Science and Engineering offers courses leading to Bachelor of Technology in Computer Science and Engineering. The department has a very good infrastructure and faculty to provide excellent education. The curriculum is updated regularly to keep up with the growing demands and the changing trends of the software industry and research laboratories. The department provides a wide range of courses. The prominent among them includes Data Structures, Design and Analysis of Algorithms, System Programming, Computer Networks, Data Mining and Warehousing, Distributed and Parallel Computing, Mobile and Wireless Computing, Real-time Systems, Cryptography, Genetic Algorithm and Artificial Intelligence. Apart from these, students are also offered a wide variety of electives.

Resource Persons

- Prof. Balasubramanian Raman, IIT Roorkee, India
- Prof. Karm Veer Arya, ABV-IIITM Gwalior, India
- Dr. Amit Kumar Singh, NIT Patna, India
- Dr. Gaurav Bhatnagar, IIT Jodhpur, India
- Prof. Sanjay Kumar Singh, IIT (BHU), Varanasi, India
- Dr. MP Singh, NIT Patna, India
- Dr. Aditya Nigam, IIT Mandi, India
- Dr. Kakali Chatterjee, NIT Patna, India
- Dr. M. Tanveer, IIT Indore, India
- Dr. Shyam Singh Rajput, NIT Patna, India
- Dr. Rajiv Ratn Shah, IIIT Delhi, India
- Dr. Suraj Sharma, IIIT Bhubaneswar, India
- Prof. Sourav Mukhopadhyay, IIT Kharagpur, India
- Dr. Prabhat Kumar, NIT Patna, India
- Dr. Gautam Paul, Indian Statistical Institute, Kolkata
- Dr. JP Singh, NIT Patna, India
- Dr. Mridul Nandi, Indian Statistical Institute, Kolkata
- Dr. Bhaskar Mondal, NIT Patna, India

Key Features

- Online/Live talks by subject experts
- Demo/hands-on experiments
- Follow up sessions
- Discussion on research problems and internship

Objectives

- To update the participants with state-of-the-art techniques available for multimedia security.
- Expedite the participants about different types of multimedia attacks.
- Enrich the attendees by the in-depth knowledge of biometrics.
- To empower the participants for developing a new encryption/watermarking algorithm.
- Helps in finding the research objectives related to the field.

Tentative Course Content

- Multimedia Security Mechanisms: Cryptography, Digital Watermarking, etc.
- The Biometric Computing: Recognition & Registration
- Biometric Authentication Techniques
- Multimedia encryption
- Blockchain-based multimedia security
- Multimedia forensics
- Bigdata Security in different industries such as healthcare, IT, Manufacturing, Retail and telecommunications
- Artificial intelligence in multimedia security
- Data Security in Cloud
- Multimedia Enhancement and Reconstruction
- Security Tools: DVWA, Snort, Metasploit, Wireshark, NMAP, Nessus, Openssl, etc.

Registration

Target Audience: Faculty Members and Research Scholars

Registration Fee:

- Faculty Members: Rs. 300/-
- Research Scholars: Rs. 200/-

The bank details required to deposit the registration fee (**RTGS, IMPS, NEFT, and Cash Deposit**) is as follows:

Account Name: ISEA PROJECT PHASE-2
Branch Name: INDIAN BANK (ALLAHABAD BANK),
NIT PATNA BRANCH
Account Number: 50284953105
IFS code: ALLA0212286

Registration Link:

<https://forms.gle/JabP6YXSpKHCWadP7>

Last Date: 15-December-2020 (Till 5:00 PM)

Contact Details:

Dr. Shyam Singh Rajput (Email: shyam.rajput.cs@nitp.ac.in,
Mob: +91-9009873213)
Dr. Bhaskar Mondal (Email: bhaskar.cs@nitp.ac.in,
Mob: +91-8797877789)