



ISEA Workshop on Secure Cyber-Physical Systems Engineering

**Organized by
Indian Institute of Technology Guwahati
Under ISEA–Project Phase II**

**Hosted by
Department of Computer Science and Engineering, BIT Meerut
24th March 2022 (Thursday)**

VENUE: Auditorium, CSE Department, BIT Meerut

About ISEA: [<http://www.isea.gov.in/>]

Information Security Education and Awareness (ISEA) project is an initiative of Ministry of Electronics and IT, Government of India to reach out to the students, faculty members and, researchers in order to make them aware and educate them in the domain of information security. Keeping in view the pervasive nature and impact of cyber security on all walks of life, Government of India has identified Information Security as one of the major thrust area for launching various research, development and awareness programs. One of the key elements essential for information security is availability of right kind of qualified and well trained human resources, who could take up Research & Development (R&D), develop indigenous solutions / software, secure and maintain various systems including critical infrastructure. With this objective ISEA project facilitate fully funded academic research, internships for faculty and students, and conduct various online and offline events across the country.

About IIT Guwahati. [<http://www.iitg.ac.in>]

Indian Institute of Technology Guwahati (IITG), the sixth member of the IIT fraternity was established in 1994. IITG has been able to build up world class infrastructure for carrying out advanced research and has been equipped with state-of-the-art scientific and engineering instruments. IITG campus is on a sprawling 285 hectares plot of land on the north bank of the river Brahmaputra around 20 kms from the heart of Guwahati city. Currently there are 450 faculty and 7550 students in IITG. The Department of Computer Science and Engineering [<http://www.iitg.ac.in/cse>], started its academic program in the year 1995 provides an outstanding research environment complemented by excellence in teaching. The department offers B.Tech., M.Tech., and Ph.D. degree programs. The department has around 30 faculty members actively involved in various cutting edge research in the field of computer science engineering. System security is one of the most vibrant and prominent research groups in IIT Guwahati.

About BIT Meerut. [<https://bitmeerut.edu.in>]

Bharat Institute of Technology, Meerut, is a leading institute offering multi-disciplinary courses in Engineering, Pharmacy, Business Applications, and Computer Application. The Department of Computer Science & Engineering has industrial alliances with top notch IT companies to facilitate research and knowledge of latest technologies for students and faculty members. The Department has MoU's for providing internships especially for girls to improve their employability.

Workshop Overview

In recent years, with large data explosion, need for high performance computing systems are on an exponential rise. IoT and cloud-based architectures and powerful cyber physical computing systems are crucial to meet the growing demand of data and compute intensive applications. Security of this eco system depends on the security of edge, fog, cloud and underlying system infrastructure. In this workshop, we explore the security challenges of cyber physical systems. Workshop also provides a platform for formal as well as informal interaction between participants and resource persons to discuss about possible avenues of collaborations, internships and career opportunities in IIT Guwahati.

Workshop Contents

- Role of IoT, Edge and Cloud devices in the modern world.
- Security Challenges in IoT and Embedded Edge Devices.
- Secure Interconnect Design for Embedded and Edge Devices.
- Internships, collaborations, career and higher education opportunities at IIT Guwahati.

Resource Persons



Prof. Sukumar Nandi

Senior Professor
IIT Guwahati



Dr. John Jose

Associate Professor
IIT Guwahati



Dr. Ruchika Gupta

Post Doctoral Fellow
IIT Guwahati

Who can Attend?

- ❖ Students and faculty from CSE, ECE, and IT or from any stream who are passionate about security domain.

Registration Details

❖ **NO REGISTRATION FEE**

❖ **REGISTRATION LINK:** <https://forms.gle/MVFr1tsfsoq3B7yJ9>

- ❖ Limited number of seats. Shortlisting is on First Come First Serve Basis
- ❖ Shortlisted candidates will receive a confirmation email within 24 hours to complete registration formalities.
- ❖ Certificates will be given ONLY to participant who attend the program in-person.

LAST DATE FOR REGISTRATION: 21st March 2022 (MONDAY)

Convener: Prof. Kshitiz Saxena, Associate Professor, CSE- BIT Meerut

Co-convener: Prof. Vishal Kohli, Associate Professor, BIT Meerut

FOR QUERIES CONTACT AT: 9412706950, 9897588006