

Target Audience and Registration Details

- Students and faculty from CSE, ECE and IT or from any other streams who are passionate about security domain.
- NO REGISTRATION FEE
- Shortlisted candidates will receive a confirmation email within 24 hours to complete the registration formalities
- Selection is on First Come First Serve basis
- REGISTRATION LINK: <https://forms.gle/GgtYuHXHR3P83MqLA>
- Certificates will be given ONLY to participants who attend the program in-person at SRM Institute of Science and Technology.

FOR QUERIES CONTACT US AT: 9810932650, 8859352389

LAST DATE FOR REGISTRATION: 21st March 2022



Information Security
Education & Awareness



ISEA workshop on “Information Security Research Trends and Awareness”

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

Hosted by
Department of Computer Science and Engineering
SRM Institute of Science and Technology, DELHI-NCR Campus

25th March, 2022

Convener
Dr. R. P. Mahapatra
Professor & Head (Department of CSE)
Dean Admissions, SRM IST

Coordinators
Dr. Sachi Pandey, Associate Professor
Dr. Anna Alphy, Assistant Professor
Department of CSE, SRM IST

-: Venue :-
Main Auditorium, SRM IST

About ISEA

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

[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. [The Department of Computer Science and Engineering](#), started its academic program in the year 1995 and is celebrating 25th year of its inception. It 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 SRM IST Delhi-NCR Campus

[SRM IST, Delhi NCR Campus](#), was established in the year 1997. The campus has more than 5000 students pursuing their career in various fields. The Delhi-NCR campus excels at providing the ambiance and serenity to allow a focused approach towards learning for its students with a 'green' campus. The



world-class infrastructure provides an excellent blend of relevance and rigor to teaching with robust industry interactions and research aimed at solving real-life problems. The Accreditation and Recognition that have been awarded are, Category-1 & "A" Grade by MHRD&UGC, A++ grade by NAAC, Approved by AICTE & Approved by PCI.

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 with powerful computing systems at the back end 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. We explore how these devices impacts our life and the challenges of the same from security point of view. Workshop also provides a platform for formal as well as informal interaction between participants and resource persons to discuss about possible avenues of collaborations, internship and career opportunities in IITs.

Workshop Objectives

- To comprehend the role of IoT in day-to-day life and to introduce IoT infrastructure – Edge, Fog, and Cloud devices.
- To understand IoT building blocks, applications, and case studies.
- To unfold the security challenges and issues in embedded edge devices.
- To introduce emerging on-chip interconnects used in modern devices and selected security challenges and mitigation techniques

Resource Persons



Prof. Sukumar Nandi
Senior Professor,
IIT Guwahati



Dr. John Jose
Associate Professor
IIT Guwahati



Dr. Ruchika Gupta
Post-Doctoral Fellow
IIT Guwahati

Workshop Contents

- Role of IoT, Edge and Cloud devices in the modern world.
- IoT Security Challenges and Countermeasures.
- Security Challenges in Embedded Edge Devices.
- Secure Interconnect Design for Embedded and Edge Devices.